

HOBBS OCC
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Speedy 16 State Com

#201H

OH

Design: OH

Midland PVA

10 December, 2018



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Speedy 18 State Com
 Well: #201H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #201H
 TVD Reference: KB = 25 @ 3600.0usft
 MD Reference: KB = 25 @ 3600.0usft
 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	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Speedy 18 State Com		
Site Position:		Northing:	509,397.00 usft
From: Map		Easting:	772,576.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 23' 53.425 N
		Longitude:	103° 35' 2.858 W
		Grid Convergence:	0.40 °

Well	#201H		
Well Position	+N-S 0.0 usft	Northing:	509,397.00 usft
	+E-W 0.0 usft	Easting:	772,576.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 23' 53.425 N
		Longitude:	103° 35' 2.858 W
		Ground Level:	3,575.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	10/30/2018	(°)
			6.82
			Dip Angle
			(°)
			60.20
			Field Strength
			(nT)
			47,897.91621874

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:		Tie On Depth:	0.0
	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			182.54

Survey Program	Data 12/10/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
177.0	14,248.0	Drilltech MWD (OH)	MWD
			Description
			OWSG MWD - Standard



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MD (usft)	Inc (°)	Asl (azimuth) (°)	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
177.0	0.26	316.94	177.0	0.3	-0.3	0.15	0.15	0.00	-0.4	0.0
328.0	0.26	315.97	328.0	0.8	-0.7	0.00	0.00	-0.84	-1.1	0.0
420.0	0.26	294.96	420.0	1.0	-1.1	0.10	0.00	-22.84	-1.4	-0.5
512.0	0.26	249.09	512.0	1.0	-1.5	0.22	0.00	-49.86	-1.0	-1.5
576.0	0.35	276.51	576.0	1.0	-1.8	0.26	0.14	42.84	-1.9	-0.8
666.0	0.26	290.13	666.0	1.1	-2.3	0.13	-0.10	15.13	-2.5	-0.3
757.0	0.53	307.71	757.0	1.4	-2.8	0.32	0.30	19.32	-3.1	0.6
848.0	0.62	325.90	848.0	2.1	-3.4	0.22	0.10	19.99	-3.6	1.6
938.0	0.88	318.34	938.0	3.0	-4.1	0.31	0.29	-8.40	-5.0	1.1
1,029.0	1.23	317.38	1,029.0	4.3	-5.3	0.39	0.38	-1.05	-6.7	1.0
1,058.0	1.08	315.09	1,058.0	4.7	-5.7	0.61	-0.59	-7.90	-7.3	0.7
1,117.0	1.14	316.81	1,116.9	5.5	-6.4	0.15	0.14	2.82	-8.4	0.9
1,208.0	1.06	313.65	1,207.9	6.7	-7.7	0.11	-0.09	-3.47	-10.2	0.4
1,288.0	0.97	295.81	1,297.9	7.6	-9.0	0.36	-0.10	-19.82	-11.4	-3.0
1,387.0	1.06	289.74	1,386.9	8.3	-10.4	0.16	0.10	-6.82	-12.6	-4.3
1,478.0	1.06	290.18	1,477.9	8.8	-12.0	0.01	0.00	0.48	-14.3	-4.2
1,572.0	0.88	283.76	1,571.9	9.3	-13.5	0.22	-0.19	-6.83	-15.3	-5.8
1,666.0	0.88	282.36	1,665.9	9.6	-14.9	0.02	0.00	-1.49	-16.6	-6.2
1,761.0	0.70	283.85	1,760.9	9.9	-16.2	0.19	-0.19	1.57	-18.1	-5.9
1,855.0	0.53	278.93	1,854.8	10.1	-17.2	0.19	-0.18	-5.23	-18.5	-7.3
1,949.0	0.44	281.76	1,948.8	10.3	-17.9	0.15	-0.10	13.65	-20.5	-2.9
2,044.0	0.35	320.24	2,043.8	10.7	-18.5	0.22	-0.09	29.98	-20.0	7.4
2,139.0	0.26	336.76	2,138.8	11.1	-18.7	0.13	-0.09	17.39	-17.6	12.8
2,233.0	0.35	359.00	2,232.8	11.6	-18.8	0.16	0.10	23.66	-11.9	18.6
2,328.0	0.35	20.44	2,327.8	12.2	-18.7	0.14	0.00	22.57	-4.8	21.8
2,422.0	1.14	299.23	2,421.8	12.9	-19.4	1.21	0.84	-86.39	-23.3	-1.7



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
2,517.0	2.89	296.68	2,518.8	14.5	-22.5	1.95	1.95	-2.68	-28.5	-2.8
2,811.0	4.04	297.74	2,810.8	17.1	-27.8	1.12	1.12	1.13	-30.6	-1.1
2,708.0	3.87	300.02	2,705.4	20.3	-33.3	0.24	-0.18	2.40	-32.6	2.9
2,800.0	4.57	307.14	2,799.1	24.1	-39.1	0.93	0.74	7.57	-31.1	10.6
2,895.0	5.45	311.54	2,893.7	29.4	-45.5	1.01	0.93	4.63	-29.1	16.4
2,989.0	4.84	319.27	2,987.4	35.3	-51.4	0.98	-0.65	8.22	-25.4	22.6
3,083.0	4.92	326.92	3,081.0	41.7	-56.2	0.70	0.09	8.14	-20.3	26.8
3,178.0	5.45	328.08	3,175.6	49.0	-60.8	0.57	0.56	1.20	-18.5	27.7
3,272.0	5.89	329.20	3,269.2	56.9	-65.6	0.48	0.47	1.21	-17.4	28.3
3,368.0	7.56	332.72	3,362.5	66.5	-70.9	1.83	1.78	3.74	-16.8	29.1
3,461.0	6.95	334.74	3,458.8	77.3	-76.3	0.70	-0.64	2.13	-17.9	29.1
3,555.0	6.51	334.65	3,550.1	87.3	-81.0	0.47	-0.47	-0.10	-19.2	28.3
3,744.0	6.07	335.01	3,738.0	106.0	-89.8	0.23	-0.23	0.19	-20.0	26.8
3,839.0	5.89	334.48	3,832.5	114.9	-94.0	0.20	-0.19	-0.56	-20.3	25.8
3,933.0	5.36	331.23	3,928.0	123.1	-98.2	0.66	-0.56	-3.46	-21.1	24.2
4,027.0	4.92	327.71	4,019.6	130.4	-102.4	0.58	-0.47	-3.74	-21.1	23.0
4,121.0	4.75	330.70	4,113.3	137.2	-106.5	0.32	-0.18	3.18	-18.0	24.2
4,215.0	4.92	336.68	4,207.0	144.3	-110.0	0.57	0.18	6.36	-13.5	25.2
4,310.0	5.01	341.86	4,301.8	152.0	-112.9	0.48	0.09	5.45	-9.7	24.7
4,404.0	4.57	340.19	4,395.3	159.4	-115.5	0.49	-0.47	-1.78	-8.6	22.5
4,498.0	4.22	336.32	4,489.0	166.1	-118.1	0.49	-0.37	-4.12	-7.5	20.6
4,592.0	3.98	338.50	4,582.8	172.2	-120.8	0.28	-0.28	0.19	-4.4	19.5
4,671.0	3.69	337.29	4,661.6	177.1	-122.9	0.35	-0.34	1.00	-1.2	18.6
4,768.0	3.52	332.81	4,756.4	182.5	-125.4	0.35	-0.18	-4.72	1.3	17.8
4,860.0	3.25	333.34	4,850.2	187.4	-127.9	0.29	-0.29	0.56	5.8	17.2
4,955.0	3.08	332.28	4,945.1	192.1	-130.3	0.19	-0.18	-1.12	10.1	16.9
5,049.0	3.08	331.58	5,039.0	196.8	-132.7	0.04	0.00	-0.74	14.7	16.7



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5,143.0	2.89	326.04	5,132.8	200.8	-135.2	0.33	-0.10	-5.89	17.9	18.5	
5,238.0	3.25	327.53	5,227.7	205.2	-138.1	0.29	0.27	1.57	23.1	18.6	
5,332.0	3.34	324.11	5,321.5	209.6	-141.1	0.23	0.10	-3.64	26.3	20.8	
5,427.0	3.34	327.45	5,416.4	214.2	-144.2	0.20	0.00	3.52	31.9	19.9	
5,521.0	3.17	320.15	5,510.2	218.5	-147.4	0.48	-0.18	-7.77	33.5	25.1	
5,615.0	3.08	320.94	5,604.1	222.5	-150.6	0.11	-0.10	0.84	37.3	26.0	
5,710.0	2.81	317.69	5,698.9	226.2	-153.8	0.33	-0.28	-3.42	38.4	29.2	
5,804.0	2.55	326.30	5,792.8	229.6	-156.5	0.51	-0.28	9.16	38.5	23.9	
5,898.0	2.29	335.80	5,887.8	233.1	-158.4	0.50	-0.27	10.00	38.0	17.6	
5,993.0	2.29	337.82	5,981.7	236.5	-159.9	0.09	0.00	2.15	34.9	16.3	
6,087.0	2.29	335.36	6,075.6	240.0	-161.4	0.10	0.00	-2.62	30.4	17.7	
6,181.0	2.29	333.34	6,169.5	243.4	-163.0	0.09	0.00	-2.15	26.0	18.7	
6,276.0	2.11	331.14	6,264.5	246.6	-164.7	0.21	-0.19	-2.32	21.6	19.6	
6,370.0	2.11	335.88	6,358.4	249.7	-166.3	0.19	0.00	5.04	19.7	17.9	
6,464.0	2.02	327.71	6,452.3	252.7	-167.9	0.33	-0.10	-6.69	13.6	20.3	
6,559.0	2.11	335.62	6,547.3	255.7	-169.5	0.31	0.09	8.33	12.8	18.4	
6,653.0	2.02	8.49	6,641.2	258.9	-170.0	1.25	-0.10	34.97	17.7	9.5	
6,748.0	2.29	20.44	6,736.2	262.3	-169.1	0.55	0.28	12.58	15.7	5.9	
6,842.0	2.20	14.20	6,830.1	265.8	-168.0	0.28	-0.10	-6.64	11.3	7.4	
6,937.0	2.11	18.42	6,925.0	269.3	-167.0	0.19	-0.09	4.44	8.3	6.7	
7,031.0	1.93	11.30	7,019.0	272.5	-166.1	0.33	-0.18	-7.57	4.1	7.4	
7,126.0	1.49	8.84	7,113.9	275.3	-165.6	0.47	-0.46	-2.59	0.9	7.5	
7,220.0	0.97	31.61	7,207.9	277.1	-165.0	0.75	-0.55	24.22	1.8	7.1	
7,314.0	0.35	37.58	7,301.9	278.0	-164.4	0.66	-0.66	6.35	1.5	6.8	
7,409.0	0.26	172.50	7,396.9	278.1	-164.2	0.59	-0.09	142.02	3.8	-5.7	
7,503.0	0.88	1.02	7,490.9	278.6	-164.1	1.21	0.66	-182.43	-3.5	6.2	
7,598.0	1.06	357.59	7,585.9	280.2	-164.2	0.20	0.19	-3.61	-5.4	6.0	



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7,692.0	0.79	23.08	7,679.9	281.6	-184.0	0.52	-0.28	27.12	-3.8	8.1
7,787.0	0.62	12.18	7,774.9	282.7	-183.6	0.23	-0.18	-11.47	-8.4	7.1
7,882.0	0.28	17.46	7,869.8	283.5	-183.4	0.38	-0.38	5.56	-8.4	7.7
7,978.0	0.44	168.87	7,963.8	283.3	-183.3	0.72	0.19	158.95	9.3	-3.2
8,071.0	1.08	175.84	8,058.8	282.1	-183.1	0.66	0.65	9.44	7.4	-4.8
8,165.0	1.14	183.31	8,152.8	280.3	-183.1	0.17	0.09	7.95	5.0	-5.4
8,259.0	1.32	188.67	8,246.8	278.3	-183.3	0.23	0.19	5.70	2.4	-5.8
8,354.0	1.41	180.85	8,341.8	278.0	-183.5	0.22	0.09	-8.23	0.9	-5.5
8,448.0	1.67	179.18	8,436.7	273.5	-183.5	0.28	0.27	-1.76	-1.5	-5.5
8,543.0	1.67	172.67	8,530.7	270.7	-183.3	0.20	0.00	-8.93	-3.5	-5.8
8,638.0	1.78	185.85	8,623.7	268.0	-183.3	0.43	0.10	14.17	-7.5	-4.5
8,732.0	2.11	186.12	8,719.8	264.8	-183.6	0.38	0.38	0.28	-10.8	-4.5
8,831.0	5.65	186.44	8,818.4	258.3	-185.2	3.64	3.58	10.43	-18.1	-2.2
KOP 8831.0' MD; 8818.4' TVD; 258.3°; -163.2°; 5.65										
8,869.0	7.03	187.63	8,856.1	254.2	-186.4	3.64	3.62	3.12	-22.3	-1.8
8,964.0	20.93	198.34	8,948.1	232.5	-173.6	14.63	14.63	0.75	-39.2	-2.7
8,984.8	23.44	198.65	8,967.3	225.0	-175.9	12.44	12.08	-8.10	-43.6	-4.8
FTP Crossing 8984.8' MD; 8967.3' TVD; 225.0°; -175.9°; 23.44										
9,058.0	32.38	192.71	9,032.0	191.9	-184.4	12.44	12.19	-5.39	-59.9	-10.8
9,153.0	37.64	190.43	9,109.8	138.5	-185.3	5.72	5.56	-2.40	-77.7	-18.1
9,248.0	41.08	188.67	9,183.2	79.1	-205.2	3.79	3.60	-1.85	-84.9	-20.4
9,342.0	46.34	188.58	9,251.2	14.9	-215.0	5.62	5.62	-0.10	-81.3	-22.3
9,437.0	56.01	187.79	9,310.7	-58.2	-225.5	10.20	10.18	-0.83	-71.9	-24.2
9,531.0	61.29	187.35	9,359.5	-137.8	-238.0	5.63	5.62	-0.47	-57.2	-25.1
9,626.0	67.38	186.38	9,400.7	-222.8	-248.2	6.46	6.39	-1.02	-34.9	-24.7
9,721.0	73.85	186.29	9,432.1	-311.8	-258.1	6.94	6.94	-0.09	-7.8	-22.7
9,815.0	83.62	186.03	9,450.4	-403.4	-266.0	10.29	10.29	-0.28	10.5	-23.8



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9,908.0	92.07	179.70	9,453.9	-496.1	-270.6	11.35	9.09	-6.81	14.6	-24.0
10,003.0	92.33	175.40	9,450.2	-590.9	-266.6	4.53	0.27	-4.53	11.4	-18.8
10,097.0	92.24	176.27	9,446.5	-684.6	-259.7	0.93	-0.10	0.83	8.2	-13.7
10,192.0	91.89	175.84	9,443.1	-779.3	-253.2	0.58	-0.37	-0.45	5.2	-7.8
10,286.0	90.84	177.94	9,440.8	-873.1	-248.1	2.50	-1.12	2.23	3.4	-3.4
10,380.0	90.75	181.37	9,439.5	-967.1	-247.6	3.65	-0.10	3.65	2.5	-3.6
10,474.0	90.13	181.72	9,438.8	-1,061.0	-250.1	0.76	-0.66	0.37	2.1	-6.8
10,569.0	90.57	179.61	9,438.2	-1,156.0	-251.2	2.27	0.46	-2.22	1.9	-8.6
10,664.0	90.22	179.61	9,437.6	-1,251.0	-250.5	0.37	-0.37	0.00	1.7	-8.7
10,758.0	89.78	179.00	9,437.6	-1,345.0	-249.4	0.80	-0.47	-0.65	2.1	-8.2
10,853.0	91.45	179.61	9,436.6	-1,440.0	-248.2	1.87	1.76	0.64	1.4	-7.8
10,947.0	91.89	180.05	9,433.8	-1,533.9	-248.0	0.66	0.47	0.47	-0.9	-8.2
11,042.0	91.89	179.88	9,430.7	-1,628.9	-247.9	0.18	0.00	-0.18	-3.7	-8.9
11,137.0	91.98	179.44	9,427.5	-1,723.8	-247.3	0.47	0.09	-0.46	-8.5	-9.0
11,231.0	89.25	179.26	9,426.5	-1,817.8	-246.3	2.91	-2.90	-0.19	-7.1	-8.7
11,326.0	88.99	179.26	9,427.9	-1,912.8	-245.1	0.27	-0.27	0.00	-5.3	-8.1
11,420.0	88.64	179.26	9,429.9	-2,006.8	-243.8	0.37	-0.37	0.00	-2.9	-7.6
11,513.0	88.72	179.00	9,432.0	-2,099.7	-242.4	0.29	0.09	-0.28	-0.4	-6.9
11,608.0	89.08	179.09	9,433.8	-2,194.7	-240.8	0.39	0.38	0.09	1.8	-6.0
11,702.0	89.34	179.00	9,435.1	-2,288.7	-239.3	0.29	0.28	-0.10	3.5	-5.2
11,796.0	91.80	178.65	9,434.2	-2,382.7	-237.4	2.64	2.62	-0.37	2.9	-3.9
11,890.0	91.98	178.56	9,431.1	-2,476.6	-235.1	0.21	0.19	-0.10	0.2	-2.4
11,985.0	91.88	178.74	9,427.8	-2,571.5	-232.8	0.19	0.00	0.19	-2.7	-0.8
12,079.0	91.36	179.18	9,425.1	-2,665.4	-231.1	0.81	-0.66	0.47	-5.0	0.2
12,173.0	90.31	178.82	9,423.7	-2,759.4	-229.5	1.18	-1.12	-0.38	-5.8	1.1
12,267.0	89.87	178.82	9,423.6	-2,853.4	-227.5	0.47	-0.47	0.00	-5.2	2.3
12,362.0	91.54	178.74	9,422.4	-2,948.4	-225.5	1.76	1.76	-0.08	-5.7	3.7



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Speedy 16 State Com
 Well: #201H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #201H
 TVD Reference: KB = 25 @ 3600.0usft
 MD Reference: KB = 25 @ 3600.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	NIS (usft)	EAW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,456.0	91.10	178.82	9,420.2	-3,042.3	-223.5	0.48	-0.47	0.09	-7.1	5.0
12,550.0	90.40	178.74	9,419.0	-3,136.3	-221.5	0.75	-0.74	-0.09	-7.6	6.3
12,644.0	89.96	178.82	9,418.7	-3,230.3	-219.5	0.48	-0.47	0.09	-7.2	7.5
12,739.0	91.36	179.00	9,417.6	-3,325.2	-217.7	1.49	1.47	0.19	-7.5	8.6
12,833.0	91.36	179.00	9,415.4	-3,419.2	-216.1	0.00	0.00	0.00	-9.1	9.6
12,927.0	90.66	178.74	9,413.7	-3,513.2	-214.2	0.79	-0.74	-0.28	-10.0	10.7
13,022.0	89.69	178.91	9,413.4	-3,608.1	-212.3	1.04	-1.02	0.18	-9.5	12.0
13,116.0	89.87	180.58	9,413.8	-3,702.1	-211.9	1.79	0.19	1.78	-8.5	11.7
13,210.0	92.07	180.58	9,412.2	-3,796.1	-212.8	2.34	2.34	0.00	-9.3	10.0
13,305.0	91.36	180.58	9,409.3	-3,891.1	-213.8	0.75	-0.75	0.00	-11.4	8.4
13,399.0	91.28	180.67	9,407.2	-3,985.0	-214.8	0.13	-0.09	0.10	-12.9	6.6
13,494.0	90.13	180.67	9,406.0	-4,080.0	-215.9	1.21	-1.21	0.00	-13.5	4.8
13,588.0	89.60	181.11	9,406.2	-4,174.0	-217.4	0.73	-0.56	0.47	-12.7	2.7
13,682.0	90.22	181.55	9,406.4	-4,268.0	-219.5	0.81	0.66	0.47	-12.0	-0.2
13,777.0	89.87	182.43	9,406.3	-4,362.9	-222.8	1.00	-0.37	0.93	-11.5	-4.2
13,872.0	90.48	182.69	9,406.0	-4,457.8	-227.1	0.70	0.64	0.27	-11.3	-9.2
13,966.0	88.46	183.39	9,406.9	-4,551.7	-232.1	2.27	-2.15	0.74	-9.9	-14.9
14,061.0	86.97	183.04	9,410.7	-4,646.5	-237.4	1.61	-1.57	-0.37	-5.6	-20.9
14,155.0	87.05	182.87	9,415.6	-4,740.2	-242.2	0.20	0.09	-0.18	-0.1	-26.4
14,188.0	86.88	182.69	9,417.2	-4,771.1	-243.7	0.80	-0.55	-0.58	1.7	-28.2
Last MWD Survey (MD = 14188.0)										
14,248.0	86.88	182.69	9,420.6	-4,833.0	-246.6	0.00	0.00	0.00	5.4	-31.6
Projection to BR (MD = 14248.0)										



Midland PVA

Company: EOG Resources - Midland
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Site: Speedy 16 State Com
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Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #201H
TVD Reference: KB = 25 @ 3600.0usft
MD Reference: KB = 25 @ 3600.0usft
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)	
8,831.0	8,818.4	258.3	-165.2	KOP 8831.0' MD; 8818.4' TVD; 258.3'; -165.2'; 5.65
8,984.8	8,967.3	225.0	-175.9	FTP Crossing 8984.8' MD; 8967.3' TVD; 225.0'; -175.9'; 23.44
14,186.0	9,417.2	-4,771.1	-243.7	Last MWD Survey (MD = 14186.0)
14,248.0	9,420.6	-4,833.0	-246.6	Projection to Bit (MD = 14248.0)

Checked By: _____ Approved By: _____ Date: _____

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

Kay Maddox 01/06/2020
Signed Date



Lea County, NM (NAD 83 NME)

Speedy 16 State Com #201H

Plan #2

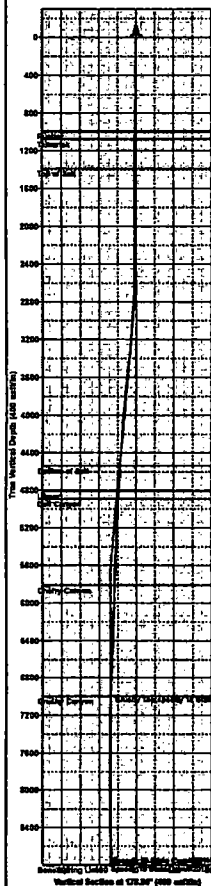
PROJECT DETAILS: Lea County, NM (NAD 83 NME)

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: #201H

Ground Level: 3575.0
KB = 23 @ 3500.0cst
Northing: 509397.00 Easting: 772578.00 Latitude: 32° 23' 53.425 N Longitude: 103° 35' 2.838 W

To convert a Magnetic Direction to a Grid Direction, Add 6.43°
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°



Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFac	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	0.00	0.00	0.00	0.0	
3	2799.8	6.00	330.12	2799.2	13.8	-7.8	2.00	330.12	-13.2	
4	3558.3	6.00	330.12	3520.8	281.4	-150.2	0.00	0.00	-284.5	
5	5936.1	0.00	0.00	5820.0	276.0	-158.0	2.00	180.00	-267.7	
6	8883.5	0.00	0.00	8887.4	276.0	-158.0	0.00	0.00	-267.7	
7	9786.5	90.30	187.33	9440.3	-296.3	-231.5	10.00	187.33	306.2	
8	10044.7	90.30	179.58	9439.0	-553.9	-247.0	3.00	-59.95	584.3	
9	10250.7	90.30	178.58	9438.0	-739.8	-245.7	0.00	0.00	750.0	TGT#1(Speedy 16 SC #201H)
10	10254.2	90.23	179.57	9438.0	-745.3	-245.7	2.00	-172.23	753.5	
11	12183.4	90.23	179.57	9430.0	-2892.4	-231.1	0.00	0.00	2700.0	TGT#2(Speedy 16 SC #201H)
12	12193.7	90.44	179.57	9429.9	-2702.7	-231.0	2.00	0.00	2710.3	
13	13485.1	90.44	179.57	9420.0	-3994.1	-221.4	0.00	0.00	4000.0	TGT#3(Speedy 16 SC #201H)
14	13490.4	90.34	178.57	9420.0	-3999.4	-221.3	2.00	-180.00	4005.2	
15	14337.1	90.34	179.57	9419.0	-4846.0	-215.0	0.00	0.00	4850.8	PBHL(Speedy 16 SC #201H)

TVD	MD	Name	Size
120.0	202	Conductor Casing	20
1101.0	182	Surface Casing	13-3/8

Name	TVD	+N-S	+E-W	Northing	Easting
Brashy Top(Speedy 16 State Com #201H)	6350.0	276.0	-158.0	509872.00	775418.00
PBHL(Speedy 16 SC #201H)	9419.0	-4846.0	-215.0	504551.00	772381.00
TGT#1(Speedy 16 SC #201H)	9420.0	-3994.1	-221.4	505402.80	772354.80
TGT#2(Speedy 16 SC #201H)	9430.0	-2892.4	-231.1	508704.60	772344.60
TGT#3(Speedy 16 SC #201H)	9430.0	-739.8	-245.7	508657.20	772330.20
FTP(Speedy 16 State Com #201H)	9440.0	226.0	-253.0	509622.00	772323.00

