



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Cobalt 32 State

#201H

OH

Plan: Plan #0.1

Standard Planning Report

19 June, 2018



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Cobalt 32 State
Well: #201H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #201H
TVD Reference: KB = 25 @ 3443.0usft
MD Reference: KB = 25 @ 3443.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	Cobalt 32 State		
Site Position:		Northing:	425,645.00 usft
From:	Map	Easting:	803,691.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 2.406 N
		Longitude:	103° 29' 7.689 W
		Grid Convergence:	0.45 °

Well	#201H					
Well Position	+N/-S	26.0 usft	Northing:	425,671.00 usft	Latitude:	32° 10' 2.697 N
	+E/-W	-424.0 usft	Easting:	803,267.00 usft	Longitude:	103° 29' 12.619 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,418.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/19/2018	6.80	60.01	47,810.05484788

Design	Plan #0.1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	8.20

Plan Survey Tool Program		Date 6/19/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	14,924.0 Plan #0.1 (OH)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,646.0	6.46	104.83	3,644.7	-9.3	35.2	1.00	1.00	0.00	104.83	
9,631.6	6.46	104.83	9,592.2	-181.7	686.2	0.00	0.00	0.00	0.00	
10,395.8	90.00	359.49	10,081.0	296.0	735.3	12.00	10.93	-13.78	-105.25	
14,924.0	90.00	359.49	10,081.0	4,824.0	695.0	0.00	0.00	0.00	0.00	PBHL(Cobalt 32 st #2)



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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	1.00	104.83	3,100.0	-0.2	0.8	-0.1	1.00	1.00	0.00
3,200.0	2.00	104.83	3,200.0	-0.9	3.4	-0.4	1.00	1.00	0.00
3,300.0	3.00	104.83	3,299.9	-2.0	7.6	-0.9	1.00	1.00	0.00
3,400.0	4.00	104.83	3,399.7	-3.6	13.5	-1.6	1.00	1.00	0.00
3,500.0	5.00	104.83	3,499.4	-5.6	21.1	-2.5	1.00	1.00	0.00
3,600.0	6.00	104.83	3,598.9	-8.0	30.3	-3.6	1.00	1.00	0.00
3,646.0	6.46	104.83	3,644.7	-9.3	35.2	-4.2	1.00	1.00	0.00
3,700.0	6.46	104.83	3,698.3	-10.9	41.0	-4.9	0.00	0.00	0.00
3,800.0	6.46	104.83	3,797.7	-13.7	51.9	-6.2	0.00	0.00	0.00
3,900.0	6.46	104.83	3,897.0	-16.6	62.8	-7.5	0.00	0.00	0.00
4,000.0	6.46	104.83	3,996.4	-19.5	73.7	-8.8	0.00	0.00	0.00
4,100.0	6.46	104.83	4,095.7	-22.4	84.5	-10.1	0.00	0.00	0.00
4,200.0	6.46	104.83	4,195.1	-25.3	95.4	-11.4	0.00	0.00	0.00
4,300.0	6.46	104.83	4,294.5	-28.2	106.3	-12.7	0.00	0.00	0.00
4,400.0	6.46	104.83	4,393.8	-31.0	117.2	-14.0	0.00	0.00	0.00
4,500.0	6.46	104.83	4,493.2	-33.9	128.1	-15.3	0.00	0.00	0.00
4,600.0	6.46	104.83	4,592.6	-36.8	138.9	-16.6	0.00	0.00	0.00
4,700.0	6.46	104.83	4,691.9	-39.7	149.8	-17.9	0.00	0.00	0.00
4,800.0	6.46	104.83	4,791.3	-42.6	160.7	-19.2	0.00	0.00	0.00
4,900.0	6.46	104.83	4,890.7	-45.4	171.6	-20.5	0.00	0.00	0.00
5,000.0	6.46	104.83	4,990.0	-48.3	182.4	-21.8	0.00	0.00	0.00
5,100.0	6.46	104.83	5,089.4	-51.2	193.3	-23.1	0.00	0.00	0.00
5,200.0	6.46	104.83	5,188.8	-54.1	204.2	-24.4	0.00	0.00	0.00



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5,300.0	6.46	104.83	5,288.1	-57.0	215.1	-25.7	0.00	0.00	0.00
5,400.0	6.46	104.83	5,387.5	-59.8	225.9	-27.0	0.00	0.00	0.00
5,500.0	6.46	104.83	5,486.9	-62.7	236.8	-28.3	0.00	0.00	0.00
5,600.0	6.46	104.83	5,586.2	-65.6	247.7	-29.6	0.00	0.00	0.00
5,700.0	6.46	104.83	5,685.6	-68.5	258.8	-30.9	0.00	0.00	0.00
5,800.0	6.46	104.83	5,785.0	-71.4	269.4	-32.2	0.00	0.00	0.00
5,900.0	6.46	104.83	5,884.3	-74.2	280.3	-33.5	0.00	0.00	0.00
6,000.0	6.46	104.83	5,983.7	-77.1	291.2	-34.8	0.00	0.00	0.00
6,100.0	6.46	104.83	6,083.0	-80.0	302.1	-36.1	0.00	0.00	0.00
6,200.0	6.46	104.83	6,182.4	-82.9	313.0	-37.4	0.00	0.00	0.00
6,300.0	6.46	104.83	6,281.8	-85.8	323.8	-38.7	0.00	0.00	0.00
6,400.0	6.46	104.83	6,381.1	-88.6	334.7	-40.0	0.00	0.00	0.00
6,500.0	6.46	104.83	6,480.5	-91.5	345.6	-41.3	0.00	0.00	0.00
6,600.0	6.46	104.83	6,579.9	-94.4	356.5	-42.6	0.00	0.00	0.00
6,700.0	6.46	104.83	6,679.2	-97.3	367.3	-43.9	0.00	0.00	0.00
6,800.0	6.46	104.83	6,778.6	-100.2	378.2	-45.2	0.00	0.00	0.00
6,900.0	6.46	104.83	6,878.0	-103.0	389.1	-46.5	0.00	0.00	0.00
7,000.0	6.46	104.83	6,977.3	-105.9	400.0	-47.8	0.00	0.00	0.00
7,100.0	6.46	104.83	7,076.7	-108.8	410.8	-49.1	0.00	0.00	0.00
7,200.0	6.46	104.83	7,176.1	-111.7	421.7	-50.4	0.00	0.00	0.00
7,300.0	6.46	104.83	7,275.4	-114.6	432.6	-51.7	0.00	0.00	0.00
7,400.0	6.46	104.83	7,374.8	-117.4	443.5	-53.0	0.00	0.00	0.00
7,500.0	6.46	104.83	7,474.2	-120.3	454.3	-54.3	0.00	0.00	0.00
7,600.0	6.46	104.83	7,573.5	-123.2	465.2	-55.6	0.00	0.00	0.00
7,700.0	6.46	104.83	7,672.9	-126.1	476.1	-56.9	0.00	0.00	0.00
7,800.0	6.46	104.83	7,772.3	-129.0	487.0	-58.2	0.00	0.00	0.00
7,900.0	6.46	104.83	7,871.6	-131.9	497.9	-59.5	0.00	0.00	0.00
8,000.0	6.46	104.83	7,971.0	-134.7	508.7	-60.8	0.00	0.00	0.00
8,100.0	6.46	104.83	8,070.3	-137.6	519.6	-62.1	0.00	0.00	0.00
8,200.0	6.46	104.83	8,169.7	-140.5	530.5	-63.4	0.00	0.00	0.00
8,300.0	6.46	104.83	8,269.1	-143.4	541.4	-64.7	0.00	0.00	0.00
8,400.0	6.46	104.83	8,368.4	-146.3	552.2	-66.0	0.00	0.00	0.00
8,500.0	6.46	104.83	8,467.8	-149.1	563.1	-67.3	0.00	0.00	0.00
8,600.0	6.46	104.83	8,567.2	-152.0	574.0	-68.6	0.00	0.00	0.00
8,700.0	6.46	104.83	8,666.5	-154.9	584.9	-69.9	0.00	0.00	0.00
8,800.0	6.46	104.83	8,765.9	-157.8	595.7	-71.2	0.00	0.00	0.00
8,900.0	6.46	104.83	8,865.3	-160.7	606.6	-72.5	0.00	0.00	0.00
9,000.0	6.46	104.83	8,964.6	-163.5	617.5	-73.8	0.00	0.00	0.00
9,100.0	6.46	104.83	9,064.0	-166.4	628.4	-75.1	0.00	0.00	0.00
9,200.0	6.46	104.83	9,163.4	-169.3	639.2	-76.4	0.00	0.00	0.00
9,300.0	6.46	104.83	9,262.7	-172.2	650.1	-77.7	0.00	0.00	0.00
9,400.0	6.46	104.83	9,362.1	-175.1	661.0	-79.0	0.00	0.00	0.00
9,500.0	6.46	104.83	9,461.5	-177.9	671.9	-80.3	0.00	0.00	0.00
9,600.0	6.46	104.83	9,560.8	-180.8	682.7	-81.6	0.00	0.00	0.00
9,631.6	6.46	104.83	9,592.2	-181.7	686.2	-82.0	0.00	0.00	0.00
9,650.0	6.25	84.88	9,610.5	-181.9	688.2	-81.9	12.00	-1.13	-108.47
9,675.0	7.14	60.08	9,635.3	-181.0	690.9	-80.6	12.00	3.57	-99.19
9,700.0	9.00	43.10	9,660.1	-178.8	693.6	-78.1	12.00	7.41	-67.93
9,725.0	11.35	32.46	9,684.7	-175.3	696.2	-74.2	12.00	9.40	-42.56
9,750.0	13.95	25.58	9,709.1	-170.5	698.8	-69.1	12.00	10.40	-27.52
9,775.0	16.68	20.86	9,733.2	-164.4	701.4	-62.7	12.00	10.93	-18.84
9,800.0	19.49	17.46	9,757.0	-157.1	704.0	-55.1	12.00	11.24	-13.61
9,825.0	22.35	14.90	9,780.3	-148.5	706.4	-46.3	12.00	11.43	-10.27
9,850.0	25.23	12.89	9,803.2	-138.7	708.8	-36.2	12.00	11.56	-8.03



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9,875.0	28.15	11.27	9,825.5	-127.8	711.2	-25.0	12.00	11.64	-6.48
9,900.0	31.07	9.93	9,847.3	-115.6	713.4	-12.7	12.00	11.71	-5.35
9,925.0	34.01	8.80	9,868.3	-102.4	715.6	0.7	12.00	11.75	-4.51
9,950.0	36.96	7.84	9,888.7	-88.0	717.7	15.2	12.00	11.79	-3.87
9,975.0	39.91	6.99	9,908.3	-72.6	719.7	30.8	12.00	11.82	-3.38
10,000.0	42.87	6.25	9,927.0	-56.2	721.6	47.3	12.00	11.84	-2.98
10,025.0	45.83	5.58	9,944.9	-38.8	723.4	64.8	12.00	11.85	-2.67
10,050.0	48.80	4.98	9,961.9	-20.5	725.1	83.1	12.00	11.87	-2.41
10,075.0	51.77	4.42	9,977.8	-1.3	726.7	102.3	12.00	11.88	-2.20
10,100.0	54.74	3.92	9,992.8	18.7	728.1	122.3	12.00	11.89	-2.03
10,125.0	57.72	3.45	10,006.7	39.4	729.5	143.0	12.00	11.90	-1.89
10,150.0	60.69	3.00	10,019.5	60.8	730.7	164.4	12.00	11.90	-1.77
10,175.0	63.67	2.59	10,031.1	82.9	731.8	186.4	12.00	11.91	-1.67
10,200.0	66.65	2.19	10,041.6	105.6	732.7	209.0	12.00	11.91	-1.58
10,215.2	68.46	1.96	10,047.4	119.6	733.2	222.9	12.00	11.92	-1.53
FTP(Cobalt 32 st #201H)									
10,225.0	69.63	1.81	10,050.9	128.8	733.5	232.0	12.00	11.92	-1.49
10,250.0	72.61	1.45	10,059.0	152.4	734.2	255.5	12.00	11.92	-1.46
10,275.0	75.59	1.10	10,065.9	176.4	734.7	279.4	12.00	11.92	-1.41
10,300.0	78.57	0.75	10,071.5	200.8	735.1	303.6	12.00	11.93	-1.37
10,325.0	81.55	0.42	10,075.8	225.4	735.4	328.0	12.00	11.93	-1.34
10,350.0	84.53	0.09	10,078.8	250.2	735.5	352.6	12.00	11.93	-1.32
10,375.0	87.52	359.76	10,080.5	275.2	735.4	377.2	12.00	11.93	-1.31
10,395.8	90.00	359.49	10,081.0	296.0	735.3	397.8	12.00	11.93	-1.30
10,400.0	90.00	359.49	10,081.0	300.2	735.3	401.9	0.00	0.00	0.00
10,500.0	90.00	359.49	10,081.0	400.2	734.4	500.8	0.00	0.00	0.00
10,600.0	90.00	359.49	10,081.0	500.2	733.5	599.6	0.00	0.00	0.00
10,700.0	90.00	359.49	10,081.0	600.1	732.6	698.5	0.00	0.00	0.00
10,800.0	90.00	359.49	10,081.0	700.1	731.7	797.3	0.00	0.00	0.00
10,900.0	90.00	359.49	10,081.0	800.1	730.8	896.2	0.00	0.00	0.00
11,000.0	90.00	359.49	10,081.0	900.1	729.9	995.0	0.00	0.00	0.00
11,100.0	90.00	359.49	10,081.0	1,000.1	729.0	1,093.9	0.00	0.00	0.00
11,200.0	90.00	359.49	10,081.0	1,100.1	728.2	1,192.7	0.00	0.00	0.00
11,300.0	90.00	359.49	10,081.0	1,200.1	727.3	1,291.6	0.00	0.00	0.00
11,400.0	90.00	359.49	10,081.0	1,300.1	726.4	1,390.4	0.00	0.00	0.00
11,500.0	90.00	359.49	10,081.0	1,400.1	725.5	1,489.3	0.00	0.00	0.00
11,600.0	90.00	359.49	10,081.0	1,500.1	724.6	1,588.1	0.00	0.00	0.00
11,700.0	90.00	359.49	10,081.0	1,600.1	723.7	1,687.0	0.00	0.00	0.00
11,800.0	90.00	359.49	10,081.0	1,700.1	722.8	1,785.8	0.00	0.00	0.00
11,900.0	90.00	359.49	10,081.0	1,800.1	721.9	1,884.7	0.00	0.00	0.00
12,000.0	90.00	359.49	10,081.0	1,900.1	721.0	1,983.5	0.00	0.00	0.00
12,100.0	90.00	359.49	10,081.0	2,000.1	720.1	2,082.3	0.00	0.00	0.00
12,200.0	90.00	359.49	10,081.0	2,100.1	719.2	2,181.2	0.00	0.00	0.00
12,300.0	90.00	359.49	10,081.0	2,200.1	718.4	2,280.0	0.00	0.00	0.00
12,400.0	90.00	359.49	10,081.0	2,300.1	717.5	2,378.9	0.00	0.00	0.00
12,500.0	90.00	359.49	10,081.0	2,400.1	716.6	2,477.7	0.00	0.00	0.00
12,600.0	90.00	359.49	10,081.0	2,500.1	715.7	2,576.6	0.00	0.00	0.00
12,700.0	90.00	359.49	10,081.0	2,600.1	714.8	2,675.4	0.00	0.00	0.00
12,800.0	90.00	359.49	10,081.0	2,700.1	713.9	2,774.3	0.00	0.00	0.00
12,900.0	90.00	359.49	10,081.0	2,800.1	713.0	2,873.1	0.00	0.00	0.00
13,000.0	90.00	359.49	10,081.0	2,900.1	712.1	2,972.0	0.00	0.00	0.00
13,100.0	90.00	359.49	10,081.0	3,000.1	711.2	3,070.8	0.00	0.00	0.00
13,200.0	90.00	359.49	10,081.0	3,100.0	710.3	3,169.7	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Cobalt 32 State
 Well: #201H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #201H
 TVD Reference: KB = 25 @ 3443.0usft
 MD Reference: KB = 25 @ 3443.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,300.0	90.00	359.49	10,081.0	3,200.0	709.5	3,268.5	0.00	0.00	0.00
13,400.0	90.00	359.49	10,081.0	3,300.0	708.6	3,367.4	0.00	0.00	0.00
13,500.0	90.00	359.49	10,081.0	3,400.0	707.7	3,466.2	0.00	0.00	0.00
13,600.0	90.00	359.49	10,081.0	3,500.0	706.8	3,565.1	0.00	0.00	0.00
13,700.0	90.00	359.49	10,081.0	3,600.0	705.9	3,663.9	0.00	0.00	0.00
13,800.0	90.00	359.49	10,081.0	3,700.0	705.0	3,762.7	0.00	0.00	0.00
13,900.0	90.00	359.49	10,081.0	3,800.0	704.1	3,861.6	0.00	0.00	0.00
14,000.0	90.00	359.49	10,081.0	3,900.0	703.2	3,960.4	0.00	0.00	0.00
14,100.0	90.00	359.49	10,081.0	4,000.0	702.3	4,059.3	0.00	0.00	0.00
14,200.0	90.00	359.49	10,081.0	4,100.0	701.4	4,158.1	0.00	0.00	0.00
14,300.0	90.00	359.49	10,081.0	4,200.0	700.6	4,257.0	0.00	0.00	0.00
14,400.0	90.00	359.49	10,081.0	4,300.0	699.7	4,355.8	0.00	0.00	0.00
14,500.0	90.00	359.49	10,081.0	4,400.0	698.8	4,454.7	0.00	0.00	0.00
14,600.0	90.00	359.49	10,081.0	4,500.0	697.9	4,553.5	0.00	0.00	0.00
14,700.0	90.00	359.49	10,081.0	4,600.0	697.0	4,652.4	0.00	0.00	0.00
14,800.0	90.00	359.49	10,081.0	4,700.0	696.1	4,751.2	0.00	0.00	0.00
14,900.0	90.00	359.49	10,081.0	4,800.0	695.2	4,850.1	0.00	0.00	0.00
14,924.0	90.00	359.49	10,081.0	4,824.0	695.0	4,873.8	0.00	0.00	0.00

PBHL(Cobalt 32 st #201H)

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL(Cobalt 32 st #201 - plan hits target center - Point	0.00	0.00	10,081.0	4,824.0	695.0	430,495.00	803,962.00	32° 10' 50.376 N	103° 29' 4.091 W
FTP(Cobalt 32 st #201H - plan misses target center by 36.4usft at 10215.2usft MD (10047.4 TVD, 119.6 N, 733.2 E) - Point	0.00	0.00	10,081.0	106.0	737.0	425,777.00	804,004.00	32° 10' 3.688 N	103° 29' 4.036 W

JUN 19 2018

RECEIVED



Lea County, NM (NAD 83 NME)

Cobalt 32 State #201H

Plan #0.1

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: #201H

KB = 25 @ 3443.0m
 Northing 428871.00 Easting 803267.00 Latitude 32° 10' 2.697 N Longitude 103° 29' 12.619 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Diag	Tface	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3545.0	6.46	104.83	3544.7	-0.3	35.2	1.00	104.83	-4.2	
4	9671.6	6.46	104.83	9592.2	-181.7	686.2	0.00	0.00	-82.0	
5	10395.8	90.00	359.49	10081.0	296.0	735.3	12.00	-105.25	397.6	
6	14924.0	90.00	359.49	10081.0	4824.0	695.0	0.00	0.00	4873.8	PBHL(Cobalt 32 st #201H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PTP(Cobalt 32 st #201H)	10081.0	106.0	737.0	428777.00	804004.00
PBHL(Cobalt 32 st #201H)	10081.0	4824.0	696.0	430486.00	802862.00

