



Centennial Resource Development, LLC

Lea County, NM (NAD 83 - UTM Zone 13 - True)
Queso Blanco 13 State Com
Queso Blanco 13 State Com 603H

OH

Design: OH

HOBBS OCD

JAN 21 2020

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Standard Survey Report

09 December, 2019



Company:	Centennial Resource Development, LLC	Local Co-ordinate Reference:	Well Queso Blanco 13 State Com 603H
Project:	Lea County, NM (NAD 83 - UTM Zone 13 - True)	TVD Reference:	3507.4' GE + 26.5' KB @ 3533.90usft
Site:	Queso Blanco 13 State Com	MD Reference:	3507.4' GE + 26.5' KB @ 3533.90usft
Well:	Queso Blanco 13 State Com 603H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

Project	Lea County, NM (NAD 83 - UTM Zone 13 - True)		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 13N (108 W to 102 W)		

Site	Queso Blanco 13 State Com		
Site Position:		Northing:	11,760,184.41 usft
From:	Map	Easting:	2,125,768.87 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.387817
		Longitude:	-103.427232
		Grid Convergence:	0.84 °

Well	Queso Blanco 13 State Com 603H		
Well Position	+N/-S	0.00 usft	Northing: 11,760,184.79 usft
	+E/-W	0.00 usft	Easting: 2,125,798.86 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32.387817
		Longitude:	-103.427135
		Ground Level:	3,507.40 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	11/14/2019	6.64
			Dip Angle (°)
			60.20
			Field Strength (nT)
			47,801.11706792

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°)
			6.74

Survey Program	Date 12/9/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
26.50	1,762.50	Survey #1 (OH)	MWD
1,908.00	18,462.00	Survey #2 (OH)	MWD+IFR1+MS
18,495.00	18,495.00	Survey #3 (OH)	BLIND
			Description
			OWSG MWD - Standard
			OWSG MWD + IFR1 + Multi-Station Correction
			OWSG BLIND

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (QB 13 State Com 603H)									
26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	0.00	0.00
79.50	0.80	55.69	79.50	0.21	0.31	0.24	1.51	1.51	0.00
256.50	1.30	241.69	256.49	-0.05	-0.44	-0.10	1.18	0.28	-98.31
283.50	1.20	288.69	283.48	-0.10	-0.98	-0.22	3.71	-0.37	174.07
457.50	0.50	168.69	457.47	-0.26	-2.56	-0.56	0.87	-0.40	-68.97
583.50	0.60	205.69	583.46	-1.40	-2.73	-1.71	0.29	0.08	29.37
772.50	1.10	212.69	772.44	-3.81	-4.14	-4.27	0.27	0.26	3.70

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

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)
961.50	1.20	284.69	961.41	-4.84	-7.04	-5.63	0.72	0.05	38.10
1,151.50	1.40	287.69	1,151.36	-3.63	-11.17	-4.92	0.11	0.11	1.58
1,339.50	2.20	240.69	1,339.28	-4.70	-16.51	-6.60	0.86	0.43	-25.00
1,528.50	2.20	231.69	1,528.14	-8.72	-22.52	-11.31	0.18	0.00	-4.76
1,716.50	1.90	217.69	1,716.02	-13.43	-27.25	-16.53	0.31	-0.16	-7.45
1,762.50	2.50	274.69	1,761.99	-13.95	-28.72	-17.22	4.71	1.30	123.91
1,908.00	3.12	254.71	1,907.32	-14.73	-35.70	-18.82	0.79	0.43	-13.73
2,002.00	1.91	239.02	2,001.23	-16.21	-39.51	-20.74	1.47	-1.29	-16.69
2,096.00	1.61	204.53	2,095.19	-18.22	-41.41	-22.96	1.15	-0.32	-36.69
2,189.00	1.49	203.69	2,188.15	-20.52	-42.43	-25.36	0.13	-0.13	-0.90
2,284.00	1.73	171.74	2,283.12	-23.07	-42.72	-27.92	0.96	0.25	-33.63
2,378.00	4.00	150.00	2,377.00	-27.31	-40.88	-31.92	2.64	2.41	-23.13
2,472.00	5.68	146.56	2,470.66	-34.03	-36.68	-38.10	1.81	1.79	-3.66
2,566.00	6.46	143.05	2,564.13	-42.14	-30.94	-45.48	0.92	0.83	-3.73
2,660.00	6.23	142.09	2,657.55	-50.39	-24.62	-52.93	0.27	-0.24	-1.02
2,754.00	7.21	143.04	2,750.91	-59.13	-17.94	-60.83	1.05	1.04	1.01
2,848.00	8.22	144.53	2,844.05	-69.32	-10.50	-70.07	1.10	1.07	1.59
2,942.00	9.07	145.80	2,936.99	-80.92	-2.43	-80.64	0.93	0.90	1.35
3,036.00	9.69	145.79	3,029.73	-93.59	6.18	-92.21	0.66	0.66	-0.01
3,130.00	10.19	147.07	3,122.32	-107.11	15.15	-104.59	0.58	0.53	1.36
3,224.00	11.63	149.18	3,214.62	-122.22	24.52	-118.50	1.59	1.53	2.24
3,318.00	11.29	146.71	3,306.74	-138.05	34.43	-133.05	0.64	-0.36	-2.63
3,412.00	12.02	144.88	3,398.80	-153.75	45.11	-147.39	0.87	0.78	-1.95
3,506.00	13.93	141.60	3,490.40	-170.63	57.77	-162.66	2.18	2.03	-3.49
3,600.00	13.79	140.13	3,581.66	-188.09	71.98	-178.34	0.40	-0.15	-1.56
3,694.00	13.57	142.77	3,673.00	-205.47	85.83	-193.97	0.70	-0.23	2.81
3,788.00	12.94	146.57	3,764.50	-223.03	98.30	-209.95	1.14	-0.67	4.04
3,882.00	11.84	147.29	3,856.31	-239.93	109.31	-225.44	1.18	-1.17	0.77
3,976.00	11.49	148.04	3,948.36	-255.99	119.48	-240.19	0.41	-0.37	0.80
4,070.00	11.23	147.84	4,040.52	-271.68	129.31	-254.62	0.28	-0.28	-0.21
4,164.00	11.36	148.30	4,132.70	-287.31	139.05	-268.99	0.17	0.14	0.49
4,258.00	11.99	148.36	4,224.76	-303.50	149.03	-283.90	0.67	0.67	0.06
4,352.00	13.12	149.01	4,316.51	-320.96	159.65	-299.99	1.21	1.20	0.69
4,446.00	12.82	149.30	4,408.11	-339.07	170.47	-316.70	0.33	-0.32	0.31
4,540.00	12.60	149.71	4,499.81	-356.89	180.96	-333.17	0.25	-0.23	0.44
4,634.00	12.56	149.46	4,591.55	-374.54	191.33	-349.49	0.07	-0.04	-0.27
4,728.00	12.58	147.90	4,683.30	-392.02	201.96	-365.59	0.36	0.02	-1.66
4,822.00	12.57	148.61	4,775.04	-409.42	212.73	-381.61	0.16	-0.01	0.76
4,916.00	12.06	147.23	4,866.88	-426.41	223.37	-397.23	0.63	-0.54	-1.47
5,010.00	12.06	147.66	4,958.80	-442.97	233.94	-412.43	0.10	0.00	0.46
5,104.00	11.91	146.99	5,050.75	-459.40	244.48	-427.51	0.22	-0.16	-0.71
5,198.00	12.07	146.61	5,142.70	-475.74	255.17	-442.48	0.19	0.17	-0.40
5,292.00	12.07	145.37	5,234.63	-492.03	266.16	-457.37	0.28	0.00	-1.32

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5,386.00	12.15	145.51	5,326.53	-508.27	277.35	-472.18	0.09	0.09	0.15
5,480.00	12.09	145.12	5,418.44	-524.50	288.58	-486.98	0.11	-0.06	-0.41
5,536.00	11.91	145.28	5,473.22	-534.06	295.22	-495.69	0.33	-0.32	0.29
5,644.00	12.06	143.18	5,578.86	-552.25	308.33	-512.22	0.43	0.14	-1.94
5,738.00	12.44	142.67	5,670.72	-568.16	320.36	-526.61	0.42	0.40	-0.54
5,832.00	12.62	143.15	5,762.48	-584.43	332.66	-541.32	0.22	0.19	0.51
5,926.00	12.16	143.14	5,854.29	-600.57	344.75	-555.93	0.49	-0.49	-0.01
6,020.00	12.97	144.97	5,946.04	-617.13	356.75	-570.96	0.96	0.86	1.95
6,114.00	12.77	145.20	6,037.68	-634.30	368.73	-586.61	0.22	-0.21	0.24
6,208.00	11.73	144.62	6,129.54	-650.62	380.19	-601.47	1.11	-1.11	-0.62
6,302.00	12.46	147.53	6,221.45	-666.96	391.17	-616.41	1.01	0.78	3.10
6,396.00	13.59	148.69	6,313.03	-684.96	402.35	-632.97	1.23	1.20	1.23
6,490.00	13.72	148.45	6,404.37	-703.89	413.93	-650.41	0.15	0.14	-0.26
6,584.00	13.18	147.47	6,495.80	-722.43	425.52	-667.46	0.62	-0.57	-1.04
6,678.00	12.72	146.85	6,587.41	-740.13	436.94	-683.69	0.51	-0.49	-0.66
6,772.00	12.41	146.85	6,679.15	-757.25	448.13	-699.38	0.33	-0.33	0.00
6,866.00	12.02	147.38	6,771.03	-773.95	458.92	-714.70	0.43	-0.41	0.56
6,960.00	11.88	147.93	6,862.99	-790.39	469.34	-729.81	0.19	-0.15	0.59
7,054.00	9.86	149.54	6,955.30	-805.53	478.56	-743.76	2.17	-2.15	1.71
7,148.00	7.98	144.56	7,048.16	-817.78	486.42	-755.00	2.16	-2.00	-5.30
7,243.00	5.95	142.64	7,142.45	-827.07	493.23	-763.43	2.15	-2.14	-2.02
7,337.00	5.10	138.70	7,236.01	-834.08	498.95	-769.72	0.99	-0.90	-4.19
7,431.00	4.58	137.54	7,329.68	-839.99	504.24	-774.96	0.56	-0.55	-1.23
7,525.00	4.48	134.96	7,423.39	-845.35	509.37	-779.69	0.24	-0.11	-2.74
7,619.00	4.23	133.76	7,517.11	-850.34	514.47	-784.04	0.28	-0.27	-1.28
7,713.00	3.88	133.21	7,610.88	-854.92	519.29	-788.02	0.37	-0.37	-0.59
7,807.00	3.52	126.28	7,704.68	-858.80	523.94	-791.33	0.61	-0.38	-7.37
7,901.00	3.11	126.08	7,798.53	-862.01	528.32	-794.01	0.44	-0.44	-0.21
7,995.00	2.61	114.08	7,892.41	-864.39	532.34	-795.89	0.83	-0.53	-12.77
8,089.00	2.43	106.93	7,986.32	-865.84	536.20	-796.88	0.39	-0.19	-7.61
8,183.00	0.83	140.78	8,080.28	-866.95	538.54	-797.71	1.92	-1.70	36.01
8,277.00	0.33	107.25	8,174.27	-867.56	539.23	-798.23	0.62	-0.53	-35.67
8,371.00	0.70	79.65	8,268.27	-867.53	540.05	-798.11	0.46	0.39	-29.36
8,465.00	0.50	48.67	8,362.27	-867.16	540.92	-797.64	0.40	-0.21	-32.96
8,559.00	0.45	18.35	8,456.26	-866.54	541.35	-796.97	0.27	-0.05	-32.26
8,653.00	0.34	336.43	8,550.26	-865.93	541.35	-796.37	0.32	-0.12	-44.60
8,747.00	0.46	282.75	8,644.26	-865.59	540.87	-796.09	0.40	0.13	-57.11
8,841.00	0.51	354.05	8,738.26	-865.10	540.46	-795.64	0.60	0.05	75.85
8,936.00	0.46	65.01	8,833.25	-864.51	540.76	-795.03	0.59	-0.05	74.69
9,030.00	0.35	103.40	8,927.25	-864.42	541.38	-794.86	0.30	-0.12	40.84
9,124.00	0.31	204.79	9,021.25	-864.72	541.56	-795.14	0.54	-0.04	107.86
9,218.00	0.89	188.64	9,115.24	-865.67	541.34	-796.11	0.64	0.62	-17.18
9,312.00	1.08	203.34	9,209.23	-867.21	540.88	-797.69	0.33	0.20	15.64
9,406.00	0.97	208.43	9,303.22	-868.72	540.15	-799.28	0.15	-0.12	5.41

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9,500.00	1.28	231.56	9,397.20	-870.07	538.95	-800.76	0.58	0.33	24.61
9,594.00	1.78	232.27	9,491.16	-871.62	536.97	-802.53	0.53	0.53	0.76
9,688.00	1.79	293.61	9,585.13	-871.92	534.47	-803.13	1.94	0.01	65.26
9,782.00	1.47	300.49	9,679.09	-870.72	532.09	-802.21	0.40	-0.34	7.32
9,877.00	1.35	306.13	9,774.06	-869.45	530.13	-801.17	0.19	-0.13	5.94
9,971.00	1.61	320.54	9,868.03	-867.77	528.40	-799.72	0.48	0.28	15.33
10,065.00	1.89	322.50	9,961.98	-865.52	526.62	-797.69	0.30	0.30	2.09
10,159.00	1.86	331.09	10,055.93	-862.96	524.94	-795.34	0.30	-0.03	9.14
10,253.00	1.66	341.06	10,149.89	-860.34	523.76	-792.88	0.39	-0.21	10.61
10,347.00	1.84	345.07	10,243.85	-857.59	522.93	-790.25	0.23	0.19	4.27
10,441.00	1.61	336.41	10,337.80	-854.92	522.01	-787.70	0.37	-0.24	-9.21
10,535.00	1.43	327.93	10,431.77	-852.72	520.86	-785.65	0.31	-0.19	-9.02
10,629.00	2.36	289.86	10,525.72	-851.07	518.41	-784.30	1.61	0.99	-40.50
10,661.00	3.11	287.59	10,557.69	-850.58	516.97	-783.99	2.37	2.34	-7.09
10,724.00	4.54	300.47	10,620.54	-848.80	513.19	-782.66	2.63	2.27	20.44
10,771.00	9.10	349.76	10,667.23	-844.19	510.92	-778.35	14.96	9.70	104.87
10,818.00	15.31	356.64	10,713.15	-834.33	509.90	-768.68	13.55	13.21	14.64
10,865.00	23.07	2.94	10,757.51	-818.91	510.00	-753.36	17.07	16.51	13.40
10,912.00	28.07	12.55	10,799.91	-798.90	512.88	-733.15	13.79	10.64	20.45
10,959.00	33.55	21.68	10,840.29	-776.01	520.09	-709.56	15.30	11.66	19.43
11,006.00	40.29	23.74	10,877.84	-750.00	531.02	-682.45	14.58	14.34	4.38
11,053.00	47.18	24.67	10,911.78	-720.39	544.35	-651.48	14.72	14.66	1.98
11,100.00	50.12	25.89	10,942.83	-688.49	559.42	-618.04	6.55	6.26	2.60
11,147.00	52.84	26.42	10,972.10	-655.49	575.63	-583.36	5.85	5.79	1.13
11,194.00	52.92	23.35	11,000.46	-621.50	591.40	-547.75	5.21	0.17	-6.53
11,241.00	53.60	20.34	11,028.58	-586.55	605.41	-511.39	5.33	1.45	-6.40
11,288.00	54.68	17.48	11,056.12	-550.52	617.74	-474.16	5.44	2.30	-6.09
11,335.00	55.90	14.98	11,082.88	-513.42	628.53	-436.06	5.08	2.60	-5.32
11,383.00	57.44	13.43	11,109.26	-474.55	638.37	-396.30	4.19	3.21	-3.23
11,430.00	59.98	12.99	11,133.67	-435.45	647.55	-356.39	5.46	5.40	-0.94
11,476.00	63.72	12.95	11,155.37	-395.93	656.65	-316.08	8.13	8.13	-0.09
11,523.00	66.02	14.77	11,175.33	-354.63	666.85	-273.86	6.02	4.89	3.87
11,571.00	69.37	13.94	11,193.54	-311.61	677.85	-229.85	7.16	6.98	-1.73
11,577.19	70.01	13.58	11,195.69	-305.97	679.23	-224.09	11.71	10.37	-5.80
LP (QB 13 State Com 603H)									
11,618.00	74.26	11.28	11,208.21	-268.05	687.58	-185.45	11.71	10.41	-5.64
11,664.00	79.56	10.58	11,218.62	-224.07	696.07	-140.78	11.62	11.52	-1.52
11,711.00	85.49	10.32	11,224.73	-178.27	704.52	-94.30	12.63	12.62	-0.55
11,758.00	86.94	10.93	11,227.84	-132.17	713.16	-47.51	3.35	3.09	1.30
11,803.00	87.16	11.51	11,230.15	-88.09	721.91	-2.71	1.38	0.49	1.29
11,884.00	86.13	10.48	11,234.89	-8.72	737.33	77.93	1.80	-1.27	-1.27
11,978.00	86.85	10.35	11,240.65	83.56	754.29	171.56	0.78	0.77	-0.14
12,008.00	86.96	10.55	11,242.27	113.02	759.73	201.45	0.76	0.37	0.67

Company:	Centennial Resource Development, LLC	Local Co-ordinate Reference:	Well Queso Blanco 13 State Com 603H
Project:	Lea County, NM (NAD 83 - UTM Zone 13 - True)	TVD Reference:	3507.4' GE + 26.5' KB @ 3533.90usft
Site:	Queso Blanco 13 State Com	MD Reference:	3507.4' GE + 26.5' KB @ 3533.90usft
Well:	Queso Blanco 13 State Com 603H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

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)
12,040.00	87.48	10.48	11,243.82	144.44	765.56	233.35	1.64	1.63	-0.22
12,071.00	88.89	11.22	11,244.80	174.87	771.39	264.25	5.14	4.55	2.39
12,103.00	90.97	12.24	11,244.84	206.20	777.90	296.13	7.24	6.50	3.19
12,165.00	93.95	12.35	11,242.18	266.72	791.08	357.77	4.81	4.81	0.18
12,212.00	95.80	10.37	11,238.18	312.63	800.31	404.45	5.75	3.94	-4.21
12,286.00	97.14	7.08	11,229.84	385.29	811.46	477.92	4.77	1.81	-4.45
12,317.00	96.39	5.91	11,226.19	415.88	814.95	508.70	4.46	-2.42	-3.77
12,348.00	95.61	4.61	11,222.95	446.58	817.77	539.52	4.87	-2.52	-4.19
12,380.00	94.77	3.56	11,220.06	478.37	820.04	571.35	4.19	-2.63	-3.28
12,411.00	94.01	2.05	11,217.68	509.24	821.55	602.19	5.44	-2.45	-4.87
12,442.00	93.10	0.77	11,215.76	540.17	822.31	633.00	5.06	-2.94	-4.13
12,474.00	92.38	359.84	11,214.23	572.13	822.48	664.76	3.67	-2.25	-2.91
12,505.00	92.56	358.90	11,212.90	603.10	822.14	695.47	3.08	0.58	-3.03
12,537.00	93.01	357.79	11,211.34	635.05	821.22	727.09	3.74	1.41	-3.47
12,568.00	93.01	356.97	11,209.71	665.97	819.81	757.63	2.64	0.00	-2.65
12,662.00	91.26	353.71	11,206.21	759.58	812.17	849.70	3.93	-1.86	-3.47
12,756.00	91.18	354.51	11,204.21	853.06	802.53	941.40	0.86	-0.09	0.85
12,803.00	91.22	355.71	11,203.22	899.88	798.53	987.42	2.55	0.09	2.55
12,850.00	90.80	355.92	11,202.40	946.74	795.10	1,033.56	1.00	-0.89	0.45
12,945.00	91.64	357.27	11,200.37	1,041.55	789.45	1,127.05	1.67	0.88	1.42
13,039.00	91.16	356.16	11,198.08	1,135.37	784.07	1,219.59	1.29	-0.51	-1.18
13,133.00	91.33	356.25	11,196.03	1,229.14	777.85	1,311.98	0.20	0.18	0.10
13,227.00	91.55	357.76	11,193.67	1,322.98	772.94	1,404.59	1.62	0.23	1.61
13,321.00	91.72	358.38	11,190.99	1,416.89	769.78	1,497.48	0.68	0.18	0.66
13,415.00	91.95	358.14	11,187.98	1,510.80	766.92	1,590.40	0.35	0.24	-0.26
13,509.00	90.76	358.27	11,185.76	1,604.72	763.98	1,683.33	1.27	-1.27	0.14
13,603.00	89.71	359.48	11,185.37	1,698.70	762.13	1,776.45	1.70	-1.12	1.29
13,696.00	89.93	0.32	11,185.66	1,791.70	761.97	1,868.78	0.93	0.24	0.90
13,791.00	90.20	0.38	11,185.56	1,886.70	762.55	1,963.19	0.29	0.28	0.06
13,884.00	90.35	0.37	11,185.11	1,979.69	763.16	2,055.62	0.16	0.16	-0.01
13,979.00	90.20	0.74	11,184.65	2,074.69	764.08	2,150.06	0.42	-0.16	0.39
14,072.00	90.20	0.68	11,184.33	2,167.68	765.23	2,242.54	0.06	0.00	-0.06
14,166.00	90.50	0.49	11,183.75	2,261.67	766.19	2,336.00	0.38	0.32	-0.20
14,261.00	90.64	0.63	11,182.81	2,356.66	767.12	2,430.44	0.21	0.15	0.15
14,355.00	90.76	0.42	11,181.66	2,450.65	767.98	2,523.88	0.26	0.13	-0.22
14,449.00	90.62	0.21	11,180.53	2,544.64	768.50	2,617.28	0.27	-0.15	-0.22
14,543.00	90.34	0.33	11,179.74	2,638.64	768.94	2,710.68	0.32	-0.30	0.13
14,637.00	90.84	0.66	11,178.77	2,732.63	769.75	2,804.12	0.64	0.53	0.35
14,731.00	90.66	0.10	11,177.54	2,826.62	770.38	2,897.53	0.63	-0.19	-0.60
14,825.00	91.12	0.56	11,176.08	2,920.61	770.92	2,990.93	0.69	0.49	0.49
14,918.00	91.57	0.50	11,173.90	3,013.58	771.78	3,083.36	0.49	0.48	-0.06
15,013.00	91.15	359.89	11,171.65	3,108.55	772.10	3,177.71	0.78	-0.44	-0.64
15,106.00	91.68	0.14	11,169.35	3,201.52	772.13	3,270.04	0.63	0.57	0.27

Company:	Centennial Resource Development, LLC	Local Co-ordinate Reference:	Well Queso Blanco 13 State Com 603H
Project:	Lea County, NM (NAD 83 - UTM Zone 13 - True)	TVD Reference:	3507.4' GE + 26.5' KB @ 3533.90usft
Site:	Queso Blanco 13 State Com	MD Reference:	3507.4' GE + 26.5' KB @ 3533.90usft
Well:	Queso Blanco 13 State Com 603H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

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)
15,200.00	91.74	0.26	11,166.54	3,295.48	772.45	3,363.39	0.14	0.06	0.13
15,294.00	91.57	0.87	11,163.83	3,389.43	773.38	3,456.80	0.67	-0.18	0.65
15,389.00	91.47	0.64	11,161.31	3,484.39	774.63	3,551.25	0.26	-0.11	-0.24
15,482.00	91.27	0.59	11,159.09	3,577.36	775.63	3,643.69	0.22	-0.22	-0.05
15,576.00	91.15	358.97	11,157.10	3,671.33	775.27	3,736.97	1.73	-0.13	-1.72
15,670.00	91.22	358.29	11,155.16	3,765.29	773.02	3,830.01	0.73	0.07	-0.72
15,764.00	91.30	358.18	11,153.09	3,859.22	770.13	3,922.96	0.14	0.09	-0.12
15,858.00	90.84	358.31	11,151.33	3,953.16	767.25	4,015.91	0.51	-0.49	0.14
15,952.00	90.70	357.97	11,150.07	4,047.10	764.20	4,108.84	0.39	-0.15	-0.36
15,961.43	90.76	357.99	11,149.95	4,056.52	763.87	4,118.16	0.71	0.67	0.24
S12/13 Crossing									
16,046.00	91.33	358.20	11,148.41	4,141.03	761.06	4,201.75	0.71	0.67	0.24
16,140.00	90.40	359.23	11,146.99	4,235.00	758.95	4,294.82	1.48	-0.99	1.10
16,234.00	90.14	0.70	11,146.54	4,328.99	758.89	4,388.16	1.59	-0.28	1.56
16,328.00	90.23	0.68	11,146.24	4,422.99	760.03	4,481.63	0.10	0.10	-0.02
16,422.00	90.13	0.65	11,145.95	4,516.98	761.12	4,575.11	0.11	-0.11	-0.03
16,516.00	90.15	0.67	11,145.72	4,610.97	762.20	4,668.58	0.03	0.02	0.02
16,610.00	90.28	0.37	11,145.36	4,704.97	763.05	4,762.02	0.35	0.14	-0.32
16,704.00	90.10	0.81	11,145.05	4,798.96	764.02	4,855.48	0.51	-0.19	0.47
16,798.00	90.14	0.40	11,144.85	4,892.96	765.01	4,948.94	0.44	0.04	-0.44
16,892.00	89.89	0.20	11,144.83	4,986.95	765.50	5,042.34	0.34	-0.27	-0.21
16,986.00	90.29	0.51	11,144.68	5,080.95	766.09	5,135.76	0.54	0.43	0.33
17,081.00	90.27	0.33	11,144.22	5,175.95	766.78	5,230.18	0.19	-0.02	-0.19
17,175.00	90.48	0.57	11,143.60	5,269.94	767.52	5,323.61	0.34	0.22	0.26
17,269.00	90.38	0.91	11,142.90	5,363.93	768.74	5,417.09	0.38	-0.11	0.36
17,363.00	90.24	0.30	11,142.39	5,457.93	769.73	5,510.55	0.67	-0.15	-0.65
17,457.00	90.24	0.21	11,141.99	5,551.92	770.15	5,603.95	0.10	0.00	-0.10
17,551.00	90.20	0.33	11,141.63	5,645.92	770.59	5,697.35	0.13	-0.04	0.13
17,645.00	90.08	0.55	11,141.40	5,739.92	771.31	5,790.78	0.27	-0.13	0.23
17,739.00	90.46	0.66	11,140.96	5,833.91	772.30	5,884.24	0.42	0.40	0.12
17,833.00	90.32	0.66	11,140.32	5,927.90	773.39	5,977.71	0.15	-0.15	0.00
17,927.00	90.29	0.56	11,139.82	6,021.90	774.39	6,071.17	0.11	-0.03	-0.11
18,021.00	90.15	0.28	11,139.46	6,115.89	775.08	6,164.60	0.33	-0.15	-0.30
18,115.00	90.07	0.58	11,139.28	6,209.89	775.78	6,258.03	0.33	-0.09	0.32
18,209.00	90.27	0.53	11,139.00	6,303.89	776.69	6,351.48	0.22	0.21	-0.05
18,303.00	90.21	0.47	11,138.61	6,397.88	777.51	6,444.92	0.09	-0.06	-0.06
18,397.00	90.99	0.65	11,137.62	6,491.87	778.43	6,538.37	0.85	0.83	0.19
18,462.00	90.18	0.40	11,136.96	6,556.87	779.03	6,602.98	1.30	-1.25	-0.38
18,493.65	90.18	0.40	11,136.86	6,588.52	779.25	6,634.44	0.00	0.00	0.00
PBHL (QB 13 State Com 603H)									
18,495.00	90.18	0.40	11,136.85	6,589.86	779.26	6,635.78	0.00	0.00	0.00
BHL									

Company:	Centennial Resource Development, LLC	Local Co-ordinate Reference:	Well Queso Blanco 13 State Com 603H
Project:	Lea County, NM (NAD 83 - UTM Zone 13 - True)	TVD Reference:	3507.4' GE + 26.5' KB @ 3533.90usft
Site:	Queso Blanco 13 State Com	MD Reference:	3507.4' GE + 26.5' KB @ 3533.90usft
Well:	Queso Blanco 13 State Com 603H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
15,961.43	11,149.95	4,056.52	763.87	S12/13 Crossing
18,495.00	11,136.85	6,589.86	779.26	BHL

Checked By: _____	Approved By: _____	Date: _____
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