

- NOTE:**
- Distances referenced on plat to section lines are perpendicular.
 - Basis of Bearing is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83).
 - Well Bore data provided by Centennial Resource Production, LLC.
 - AS-Drilled well head has not been field verified.
- = SURFACE HOLE LOCATION
- ◆ = AS-DRILLED KICK OFF POINT/TAKE POINT
- ⦿ = AS-DRILLED BOTTOM BOTTOM HOLE LOCATION
- ▲ = SECTION CORNER LOCATED
- △ = SECTION CORNER RE-ESTABLISHED.
(Not Set on Ground.)



Centennial Resources Development, Inc.

**Lea County, NM (NAD83 - UTM Zone 13)
Crunch Berry 6 Federal Com
601H**

OH / 67974

Survey: Phoenix MWD Surveys

Standard Survey Report

02 August, 2021





Survey Report



Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 601H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3658.80usft (H&P 313)
Site:	Crunch Berry 6 Federal Com	MD Reference:	RKB @ 3658.80usft (H&P 313)
Well:	601H	North Reference:	True
Wellbore:	OH / 67974	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 313)	Database:	USA Compass

Project	Lea County, NM (NAD83 - UTM Zone 13)		
Map System:	Universal Transverse Mercator (US Survey Fee	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 13N (108 W to 102 W)		Using geodetic scale factor

Site	Crunch Berry 6 Federal Com		
Site Position:		Northing:	11,774,128.78 usft
From:	Map	Easting:	2,099,474.13 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 25' 37.851420 N
		Longitude:	103° 30' 42.424674 W
		Grid Convergence:	0.80 °

Well	601H		
Well Position	+N/-S	0.00 usft	Northing: 11,774,128.78 usft
	+E/-W	0.00 usft	Easting: 2,099,474.13 usft
Position Uncertainty	1.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 25' 37.851420 N
		Longitude:	103° 30' 42.424674 W
		Ground Level:	3,633.80 usft

Wellbore	OH / 67974		
Magnetics	Model Name	Sample Date	Declination (°)
	MVHD	7/18/2021	6.41
			Dip Angle (°) 60.13
			Field Strength (nT) 47,853.76615196

Design	Surveys (H&P 313)		
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 (°) 188.08

Survey Program	Date	8/2/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
132.00	21,501.00	Phoenix MWD Surveys (OH / 67974)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

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
132.00	0.09	1.42	132.00	0.10	0.00	-0.10	0.07	0.07	0.00
First Phoenix MWD Survey									
220.00	0.27	294.51	220.00	0.26	-0.18	-0.23	0.28	0.20	-76.03
308.00	0.33	297.46	308.00	0.46	-0.60	-0.37	0.07	0.07	3.35
395.00	0.15	264.65	395.00	0.57	-0.93	-0.43	0.25	-0.21	-37.71
487.00	0.11	297.93	487.00	0.60	-1.13	-0.43	0.09	-0.04	36.17
576.00	0.23	295.27	576.00	0.71	-1.37	-0.51	0.14	0.13	-2.99
671.00	0.37	233.67	671.00	0.61	-1.79	-0.36	0.35	0.15	-64.84
766.00	0.29	244.18	765.99	0.33	-2.25	-0.01	0.11	-0.08	11.06
861.00	0.20	244.27	860.99	0.15	-2.62	0.22	0.09	-0.09	0.09



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Wellbore:	OH / 67974	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 313)	Database:	USA Compass

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)
956.00	0.25	266.04	955.99	0.06	-2.97	0.36	0.10	0.05	22.92
1,146.00	0.35	273.10	1,145.99	0.07	-3.97	0.49	0.06	0.05	3.72
1,240.00	0.37	236.62	1,239.99	-0.09	-4.51	0.72	0.24	0.02	-38.81
1,335.00	0.42	237.70	1,334.99	-0.44	-5.06	1.15	0.05	0.05	1.14
1,431.00	0.59	240.90	1,430.98	-0.87	-5.79	1.67	0.18	0.18	3.33
1,525.00	0.83	237.88	1,524.98	-1.47	-6.79	2.41	0.26	0.26	-3.21
1,620.00	0.77	237.66	1,619.97	-2.17	-7.91	3.26	0.06	-0.06	-0.23
1,715.00	0.78	241.63	1,714.96	-2.82	-9.02	4.06	0.06	0.01	4.18
1,774.00	0.81	237.08	1,773.95	-3.24	-9.72	4.57	0.12	0.05	-7.71
1,905.00	0.76	239.33	1,904.94	-4.19	-11.24	5.72	0.04	-0.04	1.72
2,094.00	1.13	280.91	2,093.92	-4.47	-14.15	6.42	0.40	0.20	22.00
2,190.00	2.38	261.21	2,189.87	-4.60	-17.05	6.95	1.43	1.30	-20.52
2,285.00	4.01	258.79	2,284.72	-5.55	-22.26	8.62	1.72	1.72	-2.55
2,379.00	5.20	256.02	2,378.41	-7.21	-29.62	11.30	1.29	1.27	-2.95
2,569.00	5.72	252.53	2,567.55	-12.14	-47.00	18.62	0.32	0.27	-1.84
2,664.00	6.84	247.65	2,661.98	-15.71	-56.75	23.53	1.30	1.18	-5.14
2,759.00	7.57	246.86	2,756.23	-20.32	-67.74	29.64	0.78	0.77	-0.83
2,854.00	8.41	245.81	2,850.31	-25.62	-79.83	36.59	0.90	0.88	-1.11
2,949.00	8.77	244.75	2,944.24	-31.56	-92.72	44.28	0.41	0.38	-1.12
3,043.00	9.35	245.04	3,037.07	-37.84	-106.12	52.38	0.62	0.62	0.31
3,138.00	8.53	243.56	3,130.91	-44.23	-119.43	60.58	0.90	-0.86	-1.56
3,233.00	9.07	245.15	3,224.79	-50.52	-132.53	68.64	0.62	0.57	1.67
3,328.00	10.54	249.46	3,318.41	-56.71	-147.46	76.88	1.73	1.55	4.54
3,423.00	10.23	250.15	3,411.85	-62.63	-163.53	84.99	0.35	-0.33	0.73
3,518.00	10.47	247.90	3,505.30	-68.74	-179.47	93.28	0.49	0.25	-2.37
3,612.00	11.03	243.54	3,597.65	-75.96	-195.43	102.67	1.05	0.60	-4.64
3,707.00	11.03	241.67	3,690.90	-84.32	-211.57	113.22	0.38	0.00	-1.97
3,802.00	11.71	243.11	3,784.04	-92.99	-228.16	124.14	0.78	0.72	1.52
3,897.00	11.58	241.54	3,877.08	-101.90	-245.14	135.34	0.36	-0.14	-1.65
3,991.00	11.42	240.36	3,969.19	-111.00	-261.53	146.65	0.30	-0.17	-1.26
4,086.00	11.33	240.24	4,062.33	-120.28	-277.80	158.13	0.10	-0.09	-0.13
4,181.00	11.17	241.06	4,155.50	-129.36	-293.96	169.40	0.24	-0.17	0.86
4,276.00	11.00	240.30	4,248.73	-138.31	-309.88	180.49	0.24	-0.18	-0.80
4,370.00	10.93	241.33	4,341.01	-147.03	-325.49	191.32	0.22	-0.07	1.10
4,465.00	11.05	241.87	4,434.27	-155.64	-341.42	202.08	0.17	0.13	0.57
4,559.00	10.97	241.29	4,526.54	-164.18	-357.21	212.76	0.15	-0.09	-0.62
4,654.00	11.04	242.99	4,619.79	-172.66	-373.24	223.40	0.35	0.07	1.79
4,748.00	11.01	243.34	4,712.06	-180.77	-389.28	233.69	0.08	-0.03	0.37
4,843.00	10.93	243.58	4,805.32	-188.85	-405.46	243.96	0.10	-0.08	0.25
4,938.00	11.19	248.03	4,898.56	-196.30	-422.07	253.68	0.94	0.27	4.68
5,033.00	11.19	250.41	4,991.76	-202.84	-439.30	262.58	0.49	0.00	2.51
5,127.00	11.17	250.85	5,083.97	-208.89	-456.50	270.98	0.09	-0.02	0.47
5,222.00	11.03	251.08	5,177.19	-214.85	-473.79	279.31	0.15	-0.15	0.24



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Well:	601H	North Reference:	True
Wellbore:	OH / 67974	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 313)	Database:	USA Compass

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)
5,316.00	11.04	250.72	5,269.46	-220.74	-490.79	287.53	0.07	0.01	-0.38
5,410.00	10.85	250.01	5,361.75	-226.74	-507.60	295.83	0.25	-0.20	-0.76
5,596.00	10.75	249.23	5,544.45	-238.87	-540.27	312.44	0.10	-0.05	-0.42
5,691.00	10.46	250.82	5,637.83	-244.85	-556.70	320.67	0.43	-0.31	1.67
5,786.00	10.44	250.64	5,731.25	-250.54	-572.96	328.58	0.04	-0.02	-0.19
5,881.00	10.06	252.04	5,824.74	-255.95	-588.98	336.19	0.48	-0.40	1.47
5,975.00	9.50	250.69	5,917.37	-261.04	-604.11	343.36	0.64	-0.60	-1.44
6,070.00	11.25	243.29	6,010.82	-267.80	-619.79	352.26	2.31	1.84	-7.79
6,165.00	11.18	242.48	6,104.00	-276.22	-636.23	362.91	0.18	-0.07	-0.85
6,260.00	10.81	241.39	6,197.26	-284.74	-652.22	373.59	0.45	-0.39	-1.15
6,354.00	11.08	239.77	6,289.55	-293.51	-667.76	384.46	0.44	0.29	-1.72
6,449.00	11.88	240.74	6,382.65	-302.89	-684.18	396.05	0.87	0.84	1.02
6,543.00	11.81	237.79	6,474.65	-312.75	-700.76	408.14	0.65	-0.07	-3.14
6,638.00	11.58	237.25	6,567.68	-323.09	-717.01	420.66	0.27	-0.24	-0.57
6,733.00	12.38	249.32	6,660.62	-331.84	-734.56	431.79	2.76	0.84	12.71
6,828.00	12.54	247.67	6,753.38	-339.36	-753.62	441.91	0.41	0.17	-1.74
6,922.00	12.70	246.23	6,845.11	-347.40	-772.52	452.53	0.38	0.17	-1.53
7,017.00	13.33	245.02	6,937.67	-356.23	-792.00	464.02	0.72	0.66	-1.27
7,112.00	14.00	243.13	7,029.98	-366.05	-812.18	476.57	0.85	0.71	-1.99
7,207.00	13.14	241.67	7,122.33	-376.37	-831.94	489.57	0.97	-0.91	-1.54
7,301.00	12.89	243.65	7,213.92	-386.09	-850.74	501.84	0.54	-0.27	2.11
7,395.00	12.66	253.48	7,305.60	-393.68	-870.01	512.05	2.32	-0.24	10.46
7,490.00	11.97	254.21	7,398.41	-399.32	-889.47	520.37	0.74	-0.73	0.77
7,585.00	11.69	254.03	7,491.40	-404.65	-908.21	528.28	0.30	-0.29	-0.19
7,680.00	11.01	253.64	7,584.54	-409.85	-926.16	535.96	0.72	-0.72	-0.41
7,774.00	10.83	252.18	7,676.84	-415.08	-943.18	543.53	0.35	-0.19	-1.55
7,869.00	10.42	251.51	7,770.21	-420.54	-959.83	551.27	0.45	-0.43	-0.71
7,964.00	9.61	251.94	7,863.76	-425.72	-975.51	558.61	0.86	-0.85	0.45
8,058.00	9.37	251.68	7,956.47	-430.56	-990.24	565.47	0.26	-0.26	-0.28
8,154.00	10.62	257.09	8,051.02	-434.99	-1,006.28	572.11	1.63	1.30	5.64
8,249.00	9.78	255.39	8,144.51	-438.98	-1,022.62	578.36	0.94	-0.88	-1.79
8,343.00	9.85	255.53	8,237.14	-443.00	-1,038.13	584.52	0.08	0.07	0.15
8,437.00	9.41	254.60	8,329.81	-447.05	-1,053.33	590.67	0.50	-0.47	-0.99
8,532.00	10.50	252.02	8,423.38	-451.79	-1,069.05	597.56	1.24	1.15	-2.72
8,627.00	10.06	250.94	8,516.86	-457.17	-1,085.12	605.15	0.51	-0.46	-1.14
8,722.00	9.34	250.32	8,610.50	-462.48	-1,100.22	612.53	0.77	-0.76	-0.65
8,817.00	8.74	249.43	8,704.32	-467.61	-1,114.24	619.58	0.65	-0.63	-0.94
8,912.00	8.94	248.33	8,798.19	-472.87	-1,127.86	626.70	0.28	0.21	-1.16
9,007.00	9.80	251.61	8,891.92	-478.15	-1,142.39	633.97	1.07	0.91	3.45
9,102.00	10.14	255.44	8,985.49	-482.80	-1,158.16	640.79	0.78	0.36	4.03
9,196.00	11.26	248.28	9,077.86	-488.28	-1,174.69	648.54	1.85	1.19	-7.62
9,291.00	9.36	251.18	9,171.32	-494.20	-1,190.62	656.64	2.07	-2.00	3.05
9,386.00	9.93	248.97	9,264.98	-499.63	-1,205.58	664.12	0.72	0.60	-2.33



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Well:	601H	North Reference:	True
Wellbore:	OH / 67974	Survey Calculation Method:	Minimum Curvature
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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)
9,480.00	10.84	247.05	9,357.43	-505.99	-1,221.29	672.62	1.04	0.97	-2.04
9,575.00	11.00	246.07	9,450.71	-513.15	-1,237.80	682.03	0.26	0.17	-1.03
9,670.00	9.60	245.43	9,544.18	-520.12	-1,253.29	691.11	1.48	-1.47	-0.67
9,765.00	9.53	248.20	9,637.86	-526.33	-1,267.79	699.30	0.49	-0.07	2.92
9,859.00	9.57	249.24	9,730.56	-531.99	-1,282.32	706.95	0.19	0.04	1.11
9,954.00	9.28	255.32	9,824.28	-536.73	-1,297.12	713.72	1.09	-0.31	6.40
10,049.00	8.35	265.25	9,918.16	-539.24	-1,311.40	718.22	1.87	-0.98	10.45
10,143.00	7.78	267.52	10,011.23	-540.09	-1,324.56	720.90	0.69	-0.61	2.41
10,238.00	8.12	262.80	10,105.32	-541.20	-1,337.64	723.85	0.77	0.36	-4.97
10,333.00	7.87	251.01	10,199.40	-544.16	-1,350.45	728.57	1.74	-0.26	-12.41
10,428.00	7.11	246.61	10,293.59	-548.61	-1,362.00	734.60	1.00	-0.80	-4.63
10,523.00	8.55	228.25	10,387.72	-555.65	-1,372.66	743.07	3.02	1.52	-19.33
10,618.00	7.90	227.16	10,481.74	-564.79	-1,382.72	753.53	0.70	-0.68	-1.15
10,713.00	7.28	227.95	10,575.91	-573.26	-1,391.97	763.22	0.66	-0.65	0.83
10,808.00	6.37	226.10	10,670.23	-580.95	-1,400.24	771.99	0.99	-0.96	-1.95
10,903.00	6.14	230.44	10,764.67	-587.84	-1,407.96	779.90	0.55	-0.24	4.57
10,998.00	5.08	231.04	10,859.21	-593.72	-1,415.14	786.73	1.12	-1.12	0.63
11,092.00	4.03	219.94	10,952.92	-598.87	-1,420.50	792.58	1.45	-1.12	-11.81
11,187.00	4.22	212.97	11,047.67	-604.36	-1,424.55	798.59	0.56	0.20	-7.34
11,282.00	3.55	215.09	11,142.45	-609.70	-1,428.14	804.38	0.72	-0.71	2.23
11,377.00	2.75	227.77	11,237.31	-613.64	-1,431.52	808.75	1.11	-0.84	13.35
11,471.00	2.43	251.75	11,331.21	-615.78	-1,435.08	811.37	1.19	-0.34	25.51
11,604.00	3.04	212.23	11,464.07	-619.64	-1,439.64	815.84	1.46	0.46	-29.71
11,698.00	10.30	177.16	11,557.40	-630.16	-1,440.55	826.39	8.51	7.72	-37.31
11,793.00	21.24	180.89	11,648.69	-655.93	-1,440.40	851.88	11.56	11.52	3.93
11,888.00	29.01	176.04	11,734.64	-696.18	-1,439.07	891.54	8.45	8.18	-5.11
11,983.00	42.09	175.98	11,811.77	-751.16	-1,435.23	945.44	13.77	13.77	-0.06
12,078.00	48.40	177.06	11,878.62	-818.47	-1,431.18	1,011.50	6.69	6.64	1.14
12,173.00	51.94	177.52	11,939.46	-891.33	-1,427.73	1,083.16	3.74	3.73	0.48
12,268.00	57.86	179.96	11,994.07	-968.99	-1,426.09	1,159.82	6.58	6.23	2.57
12,363.00	65.96	183.61	12,038.78	-1,052.67	-1,428.79	1,243.04	9.17	8.53	3.84
12,458.00	75.90	180.39	12,069.78	-1,142.28	-1,431.85	1,332.19	10.94	10.46	-3.39
12,552.00	87.59	178.00	12,083.26	-1,235.12	-1,430.51	1,423.93	12.69	12.44	-2.54
12,647.00	89.38	177.94	12,085.77	-1,330.03	-1,427.15	1,517.42	1.89	1.88	-0.06
12,767.00	89.39	177.13	12,087.06	-1,449.91	-1,421.99	1,635.38	0.68	0.01	-0.68
12,863.00	90.32	178.18	12,087.30	-1,545.83	-1,418.06	1,729.80	1.46	0.97	1.09
12,957.00	90.50	177.69	12,086.63	-1,639.76	-1,414.68	1,822.32	0.56	0.19	-0.52
13,052.00	90.04	181.16	12,086.18	-1,734.74	-1,413.72	1,916.23	3.68	-0.48	3.65
13,147.00	90.42	183.75	12,085.80	-1,829.64	-1,417.79	2,010.76	2.76	0.40	2.73
13,242.00	90.53	183.38	12,085.01	-1,924.46	-1,423.70	2,105.46	0.41	0.12	-0.39
13,336.00	90.86	178.68	12,083.87	-2,018.41	-1,425.39	2,198.72	5.01	0.35	-5.00
13,431.00	89.73	179.51	12,083.38	-2,113.39	-1,423.89	2,292.55	1.48	-1.19	0.87
13,526.00	89.64	182.89	12,083.90	-2,208.36	-1,425.88	2,386.85	3.56	-0.09	3.56
13,620.00	89.50	186.38	12,084.61	-2,302.03	-1,433.47	2,480.66	3.72	-0.15	3.71



Survey Report



Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 601H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3658.80usft (H&P 313)
Site:	Crunch Berry 6 Federal Com	MD Reference:	RKB @ 3658.80usft (H&P 313)
Well:	601H	North Reference:	True
Wellbore:	OH / 67974	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 313)	Database:	USA Compass

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)
13,715.00	90.21	185.47	12,084.85	-2,396.52	-1,443.28	2,575.59	1.21	0.75	-0.96
13,810.00	90.95	182.03	12,083.89	-2,491.30	-1,449.49	2,670.30	3.70	0.78	-3.62
13,905.00	90.59	179.87	12,082.61	-2,586.27	-1,451.06	2,764.55	2.30	-0.38	-2.27
13,999.00	89.85	183.77	12,082.25	-2,680.21	-1,454.05	2,857.97	4.22	-0.79	4.15
14,094.00	90.73	182.17	12,081.77	-2,775.07	-1,458.97	2,952.59	1.92	0.93	-1.68
14,188.00	90.01	184.41	12,081.16	-2,868.91	-1,464.36	3,046.25	2.50	-0.77	2.38
14,283.00	90.67	181.83	12,080.60	-2,963.76	-1,469.53	3,140.89	2.80	0.69	-2.72
14,378.00	90.59	178.23	12,079.55	-3,058.74	-1,469.58	3,234.93	3.79	-0.08	-3.79
14,472.00	89.55	180.47	12,079.44	-3,152.72	-1,468.52	3,327.83	2.63	-1.11	2.38
14,567.00	90.50	177.96	12,079.40	-3,247.71	-1,467.22	3,421.69	2.82	1.00	-2.64
14,662.00	89.76	179.20	12,079.18	-3,342.67	-1,464.86	3,515.39	1.52	-0.78	1.31
14,757.00	89.59	179.74	12,079.72	-3,437.67	-1,463.98	3,609.31	0.60	-0.18	0.57
14,852.00	89.92	182.21	12,080.13	-3,532.65	-1,465.60	3,703.58	2.62	0.35	2.60
14,947.00	90.82	178.39	12,079.51	-3,627.62	-1,466.10	3,797.68	4.13	0.95	-4.02
15,042.00	89.62	178.65	12,079.15	-3,722.59	-1,463.64	3,891.36	1.29	-1.26	0.27
15,137.00	90.01	176.76	12,079.45	-3,817.51	-1,459.84	3,984.80	2.03	0.41	-1.99
15,231.00	89.18	177.45	12,080.12	-3,911.39	-1,455.09	4,077.08	1.15	-0.88	0.73
15,326.00	89.75	175.87	12,081.01	-4,006.22	-1,449.56	4,170.19	1.77	0.60	-1.66
15,421.00	89.08	177.17	12,081.98	-4,101.03	-1,443.79	4,263.25	1.54	-0.71	1.37
15,516.00	88.42	180.46	12,084.05	-4,195.98	-1,441.83	4,356.98	3.53	-0.69	3.46
15,611.00	89.16	179.32	12,086.05	-4,290.95	-1,441.65	4,450.99	1.43	0.78	-1.20
15,706.00	88.82	180.50	12,087.73	-4,385.94	-1,441.50	4,545.01	1.29	-0.36	1.24
15,800.00	89.53	178.95	12,089.08	-4,479.92	-1,441.05	4,638.00	1.81	0.76	-1.65
15,895.00	89.18	179.07	12,090.15	-4,574.90	-1,439.40	4,731.80	0.39	-0.37	0.13
15,990.00	89.08	179.90	12,091.59	-4,669.89	-1,438.55	4,825.72	0.88	-0.11	0.87
16,085.00	89.19	179.12	12,093.03	-4,764.87	-1,437.74	4,919.65	0.83	0.12	-0.82
16,179.00	88.73	179.78	12,094.74	-4,858.85	-1,436.84	5,012.57	0.86	-0.49	0.70
16,274.00	88.34	181.27	12,097.16	-4,953.81	-1,437.71	5,106.71	1.62	-0.41	1.57
16,369.00	89.11	179.25	12,099.28	-5,048.78	-1,438.14	5,200.80	2.28	0.81	-2.13
16,464.00	88.27	178.36	12,101.45	-5,143.74	-1,436.16	5,294.53	1.29	-0.88	-0.94
16,559.00	88.16	182.10	12,104.41	-5,238.67	-1,436.54	5,388.58	3.94	-0.12	3.94
16,653.00	89.11	179.21	12,106.65	-5,332.63	-1,437.61	5,481.75	3.24	1.01	-3.07
16,748.00	88.20	180.98	12,108.88	-5,427.60	-1,437.77	5,575.80	2.09	-0.96	1.86
16,843.00	88.82	181.48	12,111.35	-5,522.54	-1,439.81	5,670.09	0.84	0.65	0.53
16,937.00	88.88	180.68	12,113.24	-5,616.51	-1,441.58	5,763.37	0.85	0.06	-0.85
17,033.00	88.90	180.78	12,115.10	-5,712.48	-1,442.80	5,858.56	0.11	0.02	0.10
17,128.00	88.88	180.66	12,116.94	-5,807.45	-1,443.99	5,952.76	0.13	-0.02	-0.13
17,222.00	88.44	181.40	12,119.14	-5,901.41	-1,445.68	6,046.03	0.92	-0.47	0.79
17,317.00	88.64	181.62	12,121.56	-5,996.35	-1,448.19	6,140.37	0.31	0.21	0.23
17,412.00	88.94	181.32	12,123.56	-6,091.30	-1,450.62	6,234.72	0.45	0.32	-0.32
17,506.00	88.82	180.89	12,125.40	-6,185.26	-1,452.43	6,328.01	0.47	-0.13	-0.46
17,601.00	89.21	179.58	12,127.03	-6,280.24	-1,452.82	6,422.10	1.44	0.41	-1.38
17,695.00	88.73	178.45	12,128.72	-6,374.21	-1,451.21	6,514.91	1.31	-0.51	-1.20



Survey Report



Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 601H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3658.80usft (H&P 313)
Site:	Crunch Berry 6 Federal Com	MD Reference:	RKB @ 3658.80usft (H&P 313)
Well:	601H	North Reference:	True
Wellbore:	OH / 67974	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 313)	Database:	USA Compass

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)
17,790.00	88.88	178.44	12,130.70	-6,469.16	-1,448.63	6,608.55	0.16	0.16	-0.01
17,885.00	88.81	178.67	12,132.62	-6,564.11	-1,446.24	6,702.22	0.25	-0.07	0.24
17,979.00	88.84	178.49	12,134.55	-6,658.06	-1,443.91	6,794.91	0.19	0.03	-0.19
18,074.00	88.85	178.49	12,136.46	-6,753.01	-1,441.40	6,888.57	0.01	0.01	0.00
18,169.00	88.85	177.48	12,138.37	-6,847.93	-1,438.06	6,982.07	1.06	0.00	-1.06
18,264.00	88.84	178.21	12,140.28	-6,942.84	-1,434.49	7,075.54	0.77	-0.01	0.77
18,359.00	88.87	177.94	12,142.18	-7,037.77	-1,431.30	7,169.08	0.29	0.03	-0.28
18,454.00	89.33	181.19	12,143.67	-7,132.74	-1,430.58	7,263.01	3.45	0.48	3.42
18,548.00	89.55	180.32	12,144.59	-7,226.73	-1,431.82	7,356.24	0.95	0.23	-0.93
18,643.00	89.31	180.83	12,145.54	-7,321.72	-1,432.77	7,450.42	0.59	-0.25	0.54
18,738.00	89.30	180.81	12,146.69	-7,416.70	-1,434.13	7,544.65	0.02	-0.01	-0.02
18,833.00	88.27	181.13	12,148.70	-7,511.66	-1,435.74	7,638.90	1.14	-1.08	0.34
18,928.00	88.30	181.03	12,151.55	-7,606.60	-1,437.53	7,733.14	0.11	0.03	-0.11
19,023.00	88.59	180.23	12,154.13	-7,701.56	-1,438.57	7,827.31	0.90	0.31	-0.84
19,121.00	87.56	181.89	12,157.42	-7,799.49	-1,440.39	7,924.51	1.99	-1.05	1.69
19,216.00	86.68	181.68	12,162.19	-7,894.32	-1,443.34	8,018.82	0.95	-0.93	-0.22
19,311.00	86.14	181.51	12,168.14	-7,989.10	-1,445.98	8,113.03	0.60	-0.57	-0.18
19,406.00	89.42	178.77	12,171.82	-8,084.00	-1,446.21	8,207.02	4.50	3.45	-2.88
19,500.00	88.84	178.03	12,173.25	-8,177.95	-1,443.59	8,299.67	1.00	-0.62	-0.79
19,595.00	87.40	177.55	12,176.36	-8,272.83	-1,439.92	8,393.09	1.60	-1.52	-0.51
19,690.00	89.12	177.86	12,179.25	-8,367.70	-1,436.12	8,486.49	1.84	1.81	0.33
19,784.00	88.50	177.16	12,181.20	-8,461.59	-1,432.04	8,578.88	0.99	-0.66	-0.74
19,879.00	89.24	178.62	12,183.07	-8,556.51	-1,428.54	8,672.36	1.72	0.78	1.54
19,974.00	89.44	179.85	12,184.17	-8,651.49	-1,427.27	8,766.22	1.31	0.21	1.29
20,068.00	89.55	178.99	12,185.00	-8,745.48	-1,426.32	8,859.14	0.92	0.12	-0.91
20,163.00	88.99	180.96	12,186.21	-8,840.47	-1,426.28	8,953.18	2.16	-0.59	2.07
20,258.00	88.98	180.04	12,187.89	-8,935.45	-1,427.11	9,047.33	0.97	-0.01	-0.97
20,353.00	87.91	178.94	12,190.47	-9,030.41	-1,426.27	9,141.23	1.62	-1.13	-1.16
20,448.00	87.37	179.85	12,194.38	-9,125.32	-1,425.26	9,235.06	1.11	-0.57	0.96
20,542.00	86.63	179.35	12,199.30	-9,219.19	-1,424.61	9,327.91	0.95	-0.79	-0.53
20,637.00	87.25	180.12	12,204.37	-9,314.05	-1,424.17	9,421.76	1.04	0.65	0.81
20,732.00	86.56	180.14	12,209.50	-9,408.91	-1,424.38	9,515.71	0.73	-0.73	0.02
20,827.00	86.33	179.93	12,215.39	-9,503.73	-1,424.44	9,609.60	0.33	-0.24	-0.22
20,921.00	88.45	179.89	12,219.67	-9,597.63	-1,424.30	9,702.54	2.26	2.26	-0.04
21,016.00	90.38	180.80	12,220.64	-9,692.61	-1,424.87	9,796.67	2.25	2.03	0.96
21,111.00	87.54	181.78	12,222.36	-9,787.56	-1,427.00	9,890.97	3.16	-2.99	1.03
21,206.00	86.23	181.44	12,227.53	-9,882.38	-1,429.67	9,985.23	1.42	-1.38	-0.36
21,301.00	90.25	181.17	12,230.44	-9,977.29	-1,431.83	10,079.50	4.24	4.23	-0.28
21,396.00	91.36	181.72	12,229.11	-10,072.25	-1,434.23	10,173.85	1.30	1.17	0.58
21,440.00	91.42	181.85	12,228.04	-10,116.22	-1,435.60	10,217.57	0.33	0.14	0.30
Final Phoenix MWD Survey									
21,501.00	91.42	181.85	12,226.53	-10,177.17	-1,437.57	10,278.20	0.00	0.00	0.00
Projection to TD									



Survey Report



Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 601H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3658.80usft (H&P 313)
Site:	Crunch Berry 6 Federal Com	MD Reference:	RKB @ 3658.80usft (H&P 313)
Well:	601H	North Reference:	True
Wellbore:	OH / 67974	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 313)	Database:	USA Compass

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
132.00	132.00	0.10	0.00	First Phoenix MWD Survey
21,440.00	12,228.04	-10,116.22	-1,435.60	Final Phoenix MWD Survey
21,501.00				Projection to TD

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised April 3, 2017					
WELL COMPLETION OR RECOMPLETION REPORT AND LOG								1. WELL API NO. 30-025-48378		
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								5. Lease Name or Unit Agreement Name Crunch Berry 6 Federal Com		
								6. Well Number: 601H		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER _____										
8. Name of Operator Centennial Resource Production, LLC						9. OGRID 372165				
10. Address of Operator 1001 17th Street, Suite 1800, Denver, CO						11. Pool name or Wildcat Grama Ridge; Bone Spring, West 28432				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	C	6	22S	34E		300	North	1775	West	Lea
BH:	M	7	22S	34E		89	South	336	West	Lea
13. Date Spudded	14. Date T.D. Reached		15. Date Rig Released			16. Date Completed (Ready to Produce)		17. Elevations (DF and RKB, RT, GR, etc.)		
6/20/21	7/20/21		7/22/21			9/9/21		3634		
18. Total Measured Depth of Well			19. Plug Back Measured Depth			20. Was Directional Survey Made?		21. Type Electric and Other Logs Run		
21,501			21,459			Yes		Gamma Ray		
22. Producing Interval(s), of this completion - Top, Bottom, Name										
12,149 - 22,428										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13-3/8		54.5		1846		17-1/2		1495 sx		
9-5/8		40		5510		12-1/4		1110 sx		
5-1/2		20		21491		8-3/4				
5-1/2		20		21491		8-1/2		2740 sx		
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		25. TUBING RECORD		SIZE		DEPTH SET
								2-7/8		12,257
26. Perforation record (interval, size, and number)					27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.					
12,485 - 21,455, 1824 holes					DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED			
					12,485 - 21,455		18,254,413 gals slick water			
							22,257,240# 100 mesh sand			
28. PRODUCTION										
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)				
9/10/21		Flowing-CSG				Producing				
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio			
9/20/21	24			3099	2957	5103	954			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)				
	650		3099	2957	5103	42				
29. Disposition of Gas (Sold, used for fuel, vented, etc.)							30. Test Witnessed By			
Sold							Derrick Melton			
31. List Attachments										
C-104, Survey, C-102, Additional points required										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.							33. Rig Release Date:			
34. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude _____				Longitude _____				NAD83		
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Printed			Name			Title			Date	
Signature			Meghan Twele			Sr. Regulatory Analyst			12/2/21	
E-mail Address meghan.twele@cdevinc.com										

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

Southeastern New Mexico			Northwestern New Mexico	
T. Anhy	T. Canyon		T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn		T. Kirtland	T. Penn. "B"
B. Salt	T. Bell Canvon	4771	T. Fruitland	T. Penn. "C"
T. Yates	T. Cherry Canyon	5624	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Manzanita Lime	5850	T. Cliff House	T. Leadville
T. Queen	T. Brushy Canyon	6963	T. Menefee	T. Madison
T. Grayburg	T. Bone Spring Lime	8728	T. Point Lookout	T. Elbert
T. San Andres	T. Avalon Shale	8878	T. Mancos	T. McCracken
T. Glorieta	T. 1st Bone Spring Sand	9797	T. Gallup	T. Ignacio Otzte
T. Paddock	T. 2nd Bone Spring Sand	10,318	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash		T. Dakota	
T. Tubb	T. Delaware Sand		T. Morrison	
T. Drinkard	T. Bone Springs		T. Todilto	
T. Abo	T.		T. Entrada	
T. Wolfcamp	T.		T. Wingate	
T. Penn	T.		T. Chinle	
T. Cisco (Bough C)	T.		T. Permian	

No. 1, from.....to.....
No. 2, from.....to.....
No. 3, from.....to.....
No. 4, from.....to.....

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

From	To	Thickness In Feet	Lithology

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 89277

ACKNOWLEDGMENTS

Operator: Permian Resources Operating, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 89277
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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Santa Fe, NM 87505

CONDITIONS

Action 89277

CONDITIONS

Operator: Permian Resources Operating, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 89277
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report within 10 days to NMOCD after BLM approval.	7/25/2023