



30-025-43408

Centennial Resource Development, Inc.

**Lea Co., NM (NAD83)
Raider Federal
Com 101H**

**HOBBS OCD,
DEC 07 2018
RECEIVED**

OH

Design: OH

Standard Survey Report

22 October, 2018



Company:	Centennial Resource Development, Inc.	Local Co-ordinate Reference:	Well Com 101H
Project:	Lea Co., NM (NAD83)	TVD Reference:	KB=25' @ 3556.00usft (H&P 650)
Site:	Raider Federal	MD Reference:	KB=25' @ 3556.00usft (H&P 650)
Well:	Com 101H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14 Single User Db

Project	Lea Co., NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Raider Federal			
Site Position:		Northing:	440,904.10 usft	Latitude: 32.209204
From:	Map	Easting:	807,020.00 usft	Longitude: -103.474318
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.46 °

Well	Com 101H			
Well Position	+N/-S	0.00 usft	Northing:	440,915.20 usft
	+E/-W	0.00 usft	Easting:	808,819.70 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft
			Ground Level:	3,531.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/10/18	6.75	60.05	47,795.31803237

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)	Direction (°)
	0.00	0.00	0.00	176.07

Survey Program	Date 10/22/18			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
25.00	1,343.00	Surface (OH)	MWD	OWSG MWD - Standard
1,429.00	14,055.00	MWD Survey (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

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
25.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00
117.00	0.20	14.80	117.00	0.16	0.04	-0.15	0.22	0.22	0.00
201.00	0.20	304.80	201.00	0.38	-0.04	-0.38	0.27	0.00	-83.33
286.00	0.80	34.80	286.00	0.95	0.17	-0.94	0.97	0.71	105.88
381.00	0.70	44.80	380.99	1.91	0.96	-1.84	0.17	-0.11	10.53
475.00	0.50	26.80	474.98	2.68	1.55	-2.57	0.29	-0.21	-19.15
601.00	0.70	93.80	600.98	3.12	2.57	-2.94	0.54	0.16	53.17
696.00	0.30	224.80	695.98	2.91	2.97	-2.70	0.97	-0.42	137.89
790.00	0.50	170.80	789.97	2.33	2.86	-2.13	0.43	0.21	-57.45

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North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 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)
885.00	0.60	86.80	884.97	1.95	3.43	-1.71	0.78	0.11	-88.42
916.00	0.60	128.80	915.97	1.85	3.72	-1.59	1.39	0.00	135.48
979.00	0.20	13.80	978.97	1.75	4.00	-1.48	1.12	-0.63	-182.54
1,105.00	0.40	58.80	1,104.97	2.20	4.43	-1.89	0.23	0.16	35.71
1,200.00	0.40	140.80	1,199.96	2.11	4.92	-1.77	0.55	0.00	86.32
1,263.00	0.60	10.80	1,262.96	2.26	5.12	-1.91	1.44	0.32	-206.35
1,295.00	0.60	69.80	1,294.96	2.49	5.31	-2.12	1.85	0.00	184.38
1,343.00	0.20	297.80	1,342.96	2.61	5.47	-2.23	1.56	-0.83	-275.00
1,429.00	0.38	333.57	1,428.96	2.94	5.21	-2.57	0.29	0.21	41.59
First MWD Survey									
1,523.00	0.58	328.55	1,522.96	3.62	4.82	-3.28	0.22	0.21	-5.34
1,617.00	0.37	330.19	1,616.95	4.29	4.43	-3.98	0.22	-0.22	1.74
1,711.00	0.35	324.31	1,710.95	4.79	4.11	-4.50	0.04	-0.02	-6.26
1,805.00	0.42	292.21	1,804.95	5.15	3.62	-4.89	0.24	0.07	-34.15
1,899.00	0.43	284.48	1,898.95	5.37	2.96	-5.15	0.06	0.01	-8.22
1,993.00	0.42	323.97	1,992.94	5.74	2.42	-5.56	0.31	-0.01	42.01
2,087.00	0.28	314.04	2,086.94	6.17	2.05	-6.02	0.16	-0.15	-10.56
2,182.00	0.28	316.20	2,181.94	6.50	1.72	-6.37	0.01	0.00	2.27
2,275.00	0.22	290.37	2,274.94	6.73	1.40	-6.62	0.14	-0.06	-27.77
2,369.00	0.28	287.08	2,368.94	6.86	1.01	-6.78	0.07	0.06	-3.50
2,464.00	0.34	258.39	2,463.94	6.87	0.51	-6.82	0.17	0.06	-30.20
2,558.00	0.30	255.28	2,557.94	6.75	0.00	-6.74	0.05	-0.04	-3.31
2,652.00	0.50	259.72	2,651.93	6.62	-0.64	-6.65	0.22	0.21	4.72
2,746.00	0.31	233.09	2,745.93	6.39	-1.25	-6.46	0.28	-0.20	-28.33
2,840.00	0.40	249.80	2,839.93	6.13	-1.76	-6.23	0.14	0.10	17.78
2,934.00	1.11	98.14	2,933.93	5.88	-1.17	-5.95	1.57	0.76	-161.34
3,028.00	3.14	94.02	3,027.86	5.57	2.30	-5.40	2.16	2.16	-4.38
3,122.00	5.10	91.90	3,121.61	5.25	9.05	-4.62	2.09	2.09	-2.26
3,216.00	6.63	79.64	3,215.12	6.09	18.56	-4.81	2.09	1.63	-13.04
3,310.00	7.70	72.40	3,308.38	8.97	29.90	-6.90	1.49	1.14	-7.70
3,404.00	6.87	67.09	3,401.63	13.07	41.08	-10.22	1.14	-0.88	-5.65
3,498.00	5.56	66.25	3,495.07	17.09	50.43	-13.59	1.40	-1.39	-0.89
3,592.00	5.06	66.71	3,588.67	20.56	58.41	-16.51	0.53	-0.53	0.49
3,686.00	5.04	67.04	3,682.30	23.81	66.02	-19.23	0.04	-0.02	0.35
3,780.00	4.98	67.78	3,775.94	26.96	73.59	-21.86	0.09	-0.06	0.79
3,874.00	4.66	66.91	3,869.61	30.00	80.88	-24.39	0.35	-0.34	-0.93
3,968.00	5.40	71.52	3,963.25	32.90	88.59	-26.76	0.90	0.79	4.90
4,062.00	5.97	80.37	4,056.79	35.12	97.61	-28.35	1.11	0.61	9.41
4,156.00	6.02	84.03	4,150.27	36.45	107.33	-29.02	0.41	0.05	3.89
4,250.00	5.08	82.83	4,243.83	37.49	116.36	-29.43	1.01	-1.00	-1.28
4,344.00	4.41	80.22	4,337.51	38.62	124.05	-30.03	0.75	-0.71	-2.78
4,438.00	4.83	83.15	4,431.20	39.71	131.54	-30.60	0.51	0.45	3.12
4,532.00	6.13	88.81	4,524.77	40.28	140.49	-30.56	1.50	1.38	6.02

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4,626.00	7.19	96.22	4,618.14	39.75	151.36	-29.29	1.45	1.13	7.88
4,720.00	7.44	95.71	4,711.37	38.51	163.26	-27.23	0.27	0.27	-0.54
4,814.00	6.68	81.80	4,804.67	38.68	174.73	-26.62	1.98	-0.81	-14.80
4,908.00	6.30	79.99	4,898.07	40.36	185.22	-27.57	0.46	-0.40	-1.93
5,002.00	6.50	84.92	4,991.48	41.72	195.60	-28.23	0.62	0.21	5.24
5,096.00	6.55	84.76	5,084.87	42.68	206.23	-28.46	0.06	0.05	-0.17
5,190.00	5.50	71.50	5,178.36	44.60	215.85	-29.71	1.85	-1.12	-14.11
5,283.00	4.89	57.39	5,270.98	48.15	223.41	-32.74	1.52	-0.66	-15.17
5,314.00	4.79	56.30	5,301.87	49.58	225.60	-34.01	0.44	-0.32	-3.52
5,467.00	4.35	58.33	5,454.38	56.18	235.85	-39.89	0.31	-0.29	1.33
5,561.00	4.89	64.37	5,548.07	59.78	242.50	-43.03	0.77	0.57	6.43
5,655.00	5.29	65.14	5,641.70	63.34	250.05	-46.06	0.43	0.43	0.82
5,750.00	5.21	71.12	5,736.31	66.57	258.10	-48.73	0.58	-0.08	6.29
5,844.00	5.51	75.07	5,829.89	69.12	266.50	-50.70	0.51	0.32	4.20
5,939.00	5.62	73.75	5,924.45	71.59	275.37	-52.56	0.18	0.12	-1.39
6,033.00	5.67	72.12	6,017.99	74.31	284.21	-54.66	0.18	0.05	-1.73
6,127.00	5.18	73.10	6,111.57	76.97	292.69	-56.73	0.53	-0.52	1.04
6,221.00	4.34	79.54	6,205.25	78.84	300.25	-58.09	1.06	-0.89	6.85
6,315.00	3.08	84.21	6,299.05	79.75	306.26	-58.58	1.38	-1.34	4.97
6,409.00	2.23	82.50	6,392.95	80.24	310.58	-58.77	0.91	-0.90	-1.82
6,503.00	1.22	80.04	6,486.90	80.65	313.38	-58.99	1.08	-1.07	-2.62
6,597.00	0.87	83.48	6,580.89	80.90	315.08	-59.13	0.38	-0.37	3.66
6,692.00	0.91	79.82	6,675.87	81.12	316.54	-59.24	0.07	0.04	-3.85
6,786.00	0.98	80.66	6,769.86	81.38	318.06	-59.40	0.08	0.07	0.89
6,880.00	1.04	78.25	6,863.85	81.69	319.69	-59.59	0.08	0.06	-2.56
6,974.00	0.93	77.75	6,957.83	82.02	321.27	-59.82	0.12	-0.12	-0.53
7,068.00	0.48	91.11	7,051.83	82.18	322.41	-59.90	0.51	-0.48	14.21
7,162.00	0.35	99.02	7,145.82	82.12	323.09	-59.80	0.15	-0.14	8.41
7,256.00	0.30	103.51	7,239.82	82.02	323.61	-59.66	0.06	-0.05	4.78
7,350.00	0.31	102.01	7,333.82	81.91	324.10	-59.51	0.01	0.01	-1.60
7,444.00	0.31	120.37	7,427.82	81.73	324.57	-59.30	0.11	0.00	19.53
7,538.00	0.25	142.25	7,521.82	81.44	324.91	-58.99	0.13	-0.06	23.28
7,632.00	0.32	131.39	7,615.82	81.10	325.24	-58.63	0.09	0.07	-11.55
7,727.00	0.31	126.96	7,710.82	80.77	325.64	-58.27	0.03	-0.01	-4.66
7,821.00	0.28	167.33	7,804.81	80.40	325.89	-57.88	0.22	-0.03	42.95
7,914.00	0.31	210.58	7,897.81	79.96	325.82	-57.45	0.24	0.03	46.51
8,008.00	0.55	245.93	7,991.81	79.55	325.27	-57.08	0.37	0.26	37.61
8,102.00	0.75	248.20	8,085.80	79.14	324.29	-56.74	0.21	0.21	2.41
8,196.00	0.86	249.06	8,179.79	78.66	323.06	-56.34	0.12	0.12	0.91
8,290.00	1.04	250.22	8,273.78	78.12	321.60	-55.90	0.19	0.19	1.23
8,384.00	1.15	252.56	8,367.76	77.55	319.90	-55.45	0.13	0.12	2.49
8,478.00	1.35	250.68	8,461.74	76.90	317.95	-54.94	0.22	0.21	-2.00
8,572.00	1.48	252.62	8,555.71	76.17	315.75	-54.36	0.15	0.14	2.06

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14 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)
8,666.00	1.69	255.78	8,649.68	75.47	313.25	-53.83	0.24	0.22	3.36
8,745.00	1.78	254.90	8,728.64	74.86	310.93	-53.39	0.12	0.11	-1.11
8,843.00	4.66	197.88	8,826.50	70.68	308.24	-49.39	4.06	2.94	-58.18
8,874.00	8.55	180.88	8,857.29	67.17	307.82	-45.93	13.91	12.55	-54.84
8,905.00	12.63	178.57	8,887.75	61.48	307.87	-40.24	13.23	13.16	-7.45
8,937.00	14.38	181.01	8,918.87	54.01	307.88	-32.79	5.75	5.47	7.63
8,968.00	17.41	185.47	8,948.68	45.54	307.37	-24.37	10.53	9.77	14.39
8,999.00	19.91	186.74	8,978.05	35.68	306.31	-14.61	8.17	8.06	4.10
9,031.00	20.77	187.73	9,008.05	24.64	304.91	-3.70	2.89	2.69	3.09
9,062.00	24.62	183.75	9,036.65	12.75	303.75	8.09	13.36	12.42	-12.84
9,093.00	28.84	182.06	9,064.33	-1.17	303.06	21.93	13.83	13.61	-5.45
9,125.00	31.90	182.61	9,091.93	-17.34	302.39	38.01	9.60	9.56	1.72
9,156.00	37.01	183.91	9,117.49	-34.84	301.38	55.40	16.65	16.48	4.19
9,187.00	40.51	182.93	9,141.66	-54.21	300.23	74.65	11.46	11.29	-3.16
9,219.00	43.34	180.26	9,165.47	-75.58	299.65	95.93	10.45	8.84	-8.34
9,250.00	44.86	176.46	9,187.73	-97.13	300.28	117.47	9.84	4.90	-12.26
9,282.00	46.76	176.04	9,210.04	-120.03	301.78	140.42	6.01	5.94	-1.31
9,313.00	49.44	176.50	9,230.74	-143.05	303.28	163.49	8.72	8.65	1.48
9,344.00	53.00	177.33	9,250.15	-167.18	304.57	187.65	11.67	11.48	2.68
9,375.00	56.73	178.46	9,267.99	-192.51	305.50	212.98	12.40	12.03	3.65
9,407.00	59.43	178.83	9,284.91	-219.66	306.14	240.11	8.49	8.44	1.16
9,438.00	62.68	179.55	9,299.91	-246.78	306.52	267.20	10.68	10.48	2.32
9,470.00	65.07	181.29	9,314.00	-275.50	306.31	295.84	8.92	7.47	5.44
9,501.00	67.10	182.11	9,326.56	-303.83	305.46	324.04	6.98	6.55	2.65
9,532.00	68.70	181.73	9,338.23	-332.53	304.50	352.61	5.28	5.16	-1.23
9,563.00	70.67	180.03	9,348.99	-361.60	304.06	381.58	8.17	6.35	-5.48
9,595.00	73.94	179.10	9,358.71	-392.08	304.29	412.00	10.59	10.22	-2.91
9,626.00	75.33	177.79	9,366.93	-421.96	305.10	441.87	6.06	4.48	-4.23
9,657.00	78.29	176.55	9,374.00	-452.10	306.60	472.04	10.31	9.55	-4.00
9,689.00	80.86	176.11	9,379.79	-483.50	308.61	503.51	8.14	8.03	-1.38
9,729.00	85.94	177.56	9,384.39	-523.17	310.80	543.23	13.20	12.70	3.63
9,760.00	87.09	178.55	9,386.27	-554.09	311.85	574.15	4.89	3.71	3.19
9,791.00	86.55	177.55	9,387.99	-585.02	312.91	605.08	3.66	-1.74	-3.23
9,885.00	86.30	178.66	9,393.85	-678.79	316.01	698.84	1.21	-0.27	1.18
9,979.00	87.42	178.76	9,399.00	-772.62	318.12	792.60	1.20	1.19	0.11
10,074.00	88.40	180.13	9,402.47	-867.55	319.04	887.37	1.77	1.03	1.44
10,167.00	89.81	179.98	9,403.92	-960.54	318.95	980.13	1.52	1.52	-0.16
10,261.00	89.34	179.70	9,404.62	-1,054.53	319.21	1,073.92	0.58	-0.50	-0.30
10,356.00	90.20	180.23	9,405.00	-1,149.53	319.27	1,168.70	1.06	0.91	0.56
10,450.00	88.72	180.17	9,405.88	-1,243.52	318.94	1,262.45	1.58	-1.57	-0.06
10,544.00	89.95	180.21	9,406.97	-1,337.51	318.63	1,356.20	1.31	1.31	0.04
10,638.00	90.26	180.36	9,406.80	-1,431.51	318.16	1,449.95	0.37	0.33	0.16
10,731.00	88.83	180.37	9,407.54	-1,524.51	317.57	1,542.68	1.54	-1.54	0.01
10,826.00	91.69	181.06	9,407.11	-1,619.49	316.39	1,637.36	3.10	3.01	0.73

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Well:	Com 101H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14 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)
10,920.00	94.24	180.90	9,402.25	-1,713.34	314.78	1,730.88	2.72	2.71	-0.17
10,951.00	95.37	181.18	9,399.65	-1,744.23	314.22	1,761.65	3.75	3.65	0.90
10,983.00	94.75	181.20	9,396.83	-1,776.09	313.56	1,793.40	1.94	-1.94	0.06
11,014.00	93.26	180.80	9,394.66	-1,807.01	313.02	1,824.21	4.98	-4.81	-1.29
11,045.00	92.28	180.39	9,393.17	-1,837.97	312.70	1,855.08	3.43	-3.16	-1.32
11,077.00	91.04	179.98	9,392.24	-1,869.96	312.59	1,886.98	4.08	-3.88	-1.28
11,108.00	90.40	179.62	9,391.85	-1,900.96	312.70	1,917.91	2.37	-2.06	-1.16
11,139.00	90.57	179.54	9,391.59	-1,931.95	312.93	1,948.85	0.61	0.55	-0.26
11,202.00	90.28	179.67	9,391.12	-1,994.95	313.36	2,011.73	0.50	-0.46	0.21
11,296.00	90.79	178.71	9,390.24	-2,088.94	314.69	2,105.59	1.16	0.54	-1.02
11,390.00	89.81	178.07	9,389.75	-2,182.90	317.33	2,199.51	1.25	-1.04	-0.68
11,484.00	89.89	177.61	9,390.00	-2,276.83	320.88	2,293.46	0.50	0.09	-0.49
11,578.00	90.14	177.10	9,389.97	-2,370.73	325.21	2,387.44	0.60	0.27	-0.54
11,672.00	90.20	177.90	9,389.69	-2,464.64	329.31	2,481.41	0.85	0.06	0.85
11,766.00	90.03	180.03	9,389.50	-2,558.62	331.01	2,575.28	2.27	-0.18	2.27
11,860.00	92.30	180.62	9,387.59	-2,652.59	330.48	2,669.00	2.50	2.41	0.63
11,892.00	92.16	180.30	9,386.35	-2,684.56	330.22	2,700.88	1.09	-0.44	-1.00
11,923.00	91.63	179.53	9,385.32	-2,715.55	330.27	2,731.79	3.01	-1.71	-2.48
11,954.00	90.06	179.91	9,384.87	-2,746.54	330.42	2,762.73	5.21	-5.06	1.23
11,986.00	89.67	179.96	9,384.94	-2,778.54	330.46	2,794.65	1.23	-1.22	0.16
12,017.00	89.42	179.49	9,385.19	-2,809.54	330.60	2,825.59	1.72	-0.81	-1.52
12,049.00	89.64	179.98	9,385.45	-2,841.54	330.75	2,857.52	1.68	0.69	1.53
12,080.00	89.14	180.40	9,385.78	-2,872.54	330.65	2,888.44	2.11	-1.61	1.35
12,111.00	89.30	180.63	9,386.20	-2,903.53	330.37	2,919.34	0.90	0.52	0.74
12,143.00	89.39	180.22	9,386.57	-2,935.53	330.13	2,951.25	1.31	0.28	-1.28
12,174.00	88.88	180.63	9,387.03	-2,966.52	329.90	2,982.16	2.11	-1.65	1.32
12,205.00	89.30	181.73	9,387.53	-2,997.51	329.27	3,013.03	3.80	1.35	3.55
12,237.00	88.63	181.63	9,388.11	-3,029.49	328.33	3,044.87	2.12	-2.09	-0.31
12,268.00	86.95	181.50	9,389.30	-3,060.46	327.48	3,075.70	5.44	-5.42	-0.42
12,299.00	84.31	181.96	9,391.66	-3,091.35	326.55	3,106.46	8.64	-8.52	1.48
12,331.00	84.28	181.94	9,394.84	-3,123.18	325.47	3,138.13	0.11	-0.09	-0.06
12,376.00	85.68	182.39	9,398.78	-3,167.97	323.77	3,182.71	3.27	3.11	1.00
12,425.00	86.95	181.79	9,401.93	-3,216.83	321.99	3,231.34	2.87	2.59	-1.22
12,519.00	87.48	180.14	9,406.50	-3,310.71	320.41	3,324.88	1.84	0.56	-1.76
12,613.00	89.67	179.71	9,408.84	-3,404.67	320.53	3,418.63	2.37	2.33	-0.46
12,707.00	89.61	178.69	9,409.43	-3,498.66	321.84	3,512.49	1.09	-0.06	-1.09
12,800.00	90.90	178.96	9,409.01	-3,591.64	323.75	3,605.38	1.42	1.39	0.29
12,894.00	90.31	180.45	9,408.02	-3,685.63	324.23	3,699.18	1.70	-0.63	1.59
12,988.00	89.33	180.78	9,408.31	-3,779.62	323.23	3,792.88	1.10	-1.04	0.35
13,082.00	90.12	180.16	9,408.77	-3,873.61	322.45	3,886.60	1.07	0.84	-0.66
13,176.00	89.00	182.79	9,409.49	-3,967.57	320.04	3,980.17	3.04	-1.19	2.80
13,270.00	89.56	182.87	9,410.67	-4,061.45	315.39	4,073.51	0.60	0.60	0.09
13,364.00	90.65	183.40	9,410.50	-4,155.31	310.25	4,166.80	1.29	1.16	0.56

Company: Centennial Resource Development, Inc.
Project: Lea Co., NM (NAD83)
Site: Raider Federal
Well: Com 101H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Com 101H
TVD Reference: KB=25' @ 3556.00usft (H&P 650)
MD Reference: KB=25' @ 3556.00usft (H&P 650)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 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)
13,458.00	89.42	182.09	9,410.44	-4,249.19	305.75	4,260.16	1.91	-1.31	-1.39
13,552.00	88.46	181.67	9,412.18	-4,343.13	302.67	4,353.66	1.11	-1.02	-0.45
13,646.00	89.58	180.77	9,413.79	-4,437.09	300.67	4,447.26	1.53	1.19	-0.96
13,740.00	89.25	179.92	9,414.75	-4,531.08	300.10	4,540.99	0.97	-0.35	-0.90
13,834.00	89.47	178.43	9,415.80	-4,625.06	301.46	4,634.85	1.60	0.23	-1.59
13,928.00	89.47	177.59	9,416.67	-4,719.00	304.72	4,728.79	0.89	0.00	-0.89
14,009.00	90.20	176.81	9,416.90	-4,799.90	308.68	4,809.77	1.32	0.90	-0.96
Last MWD Survey									
14,055.00	90.20	176.81	9,416.74	-4,845.83	311.24	4,855.77	0.00	0.00	0.00
PTB @ 14055'									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,429.00	1,428.96	2.94	5.21	First MWD Survey
14,009.00	9,416.90	-4,799.90	308.68	Last MWD Survey
14,055.00	9,416.74	-4,845.83	311.24	PTB @ 14055'

Checked By: _____ Approved By: _____ Date: _____

WELL DETAILS: Com 101H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	440915.20	808819.70	32.209195	-103.468499

WELLBORE TARGET DETAILS (LAT/LONG)

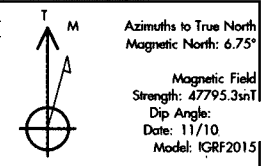
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Raider Fed Com 101H TL	9387.00	0.00	0.00	440915.20	808819.70	Rectangle (Sides: 10.00 W1.00)
Raider Fed Com 101H P2	9432.60	-4776.19	327.98	436141.80	809186.10	Point

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Tfoc	VSect	Annotation
1343.00	0.20	297.80	1342.96	2.61	5.47	0.00	0.00	-2.23	100' Hold
1443.00	0.20	297.80	1442.96	2.77	5.16	0.00	0.00	-2.41	Drop 1"/100'
1463.00	0.00	0.00	1462.96	2.79	5.13	1.00	180.00	-2.43	1537' Hold
3000.04	0.00	0.00	3000.00	2.79	5.13	0.00	0.00	-2.43	Build 10"/100'
3599.64	6.00	78.24	3598.50	9.18	35.82	1.00	78.24	-6.70	2556' Hold
6156.62	6.00	78.24	6141.50	63.61	297.31	0.00	0.00	-43.09	Drop 1"/100'
6756.22	0.00	0.00	6740.00	70.00	328.00	1.00	180.00	-47.36	2086' Hold
8842.28	0.00	0.00	8826.06	70.00	328.00	0.00	0.00	-47.36	Build 10"/100'
9737.78	89.55	180.00	9399.00	-498.46	328.00	10.00	180.00	519.76	4277' Hold
14015.65	89.55	180.00	9432.60	-4776.19	327.98	0.00	0.00	4787.44	TD at 14015.65

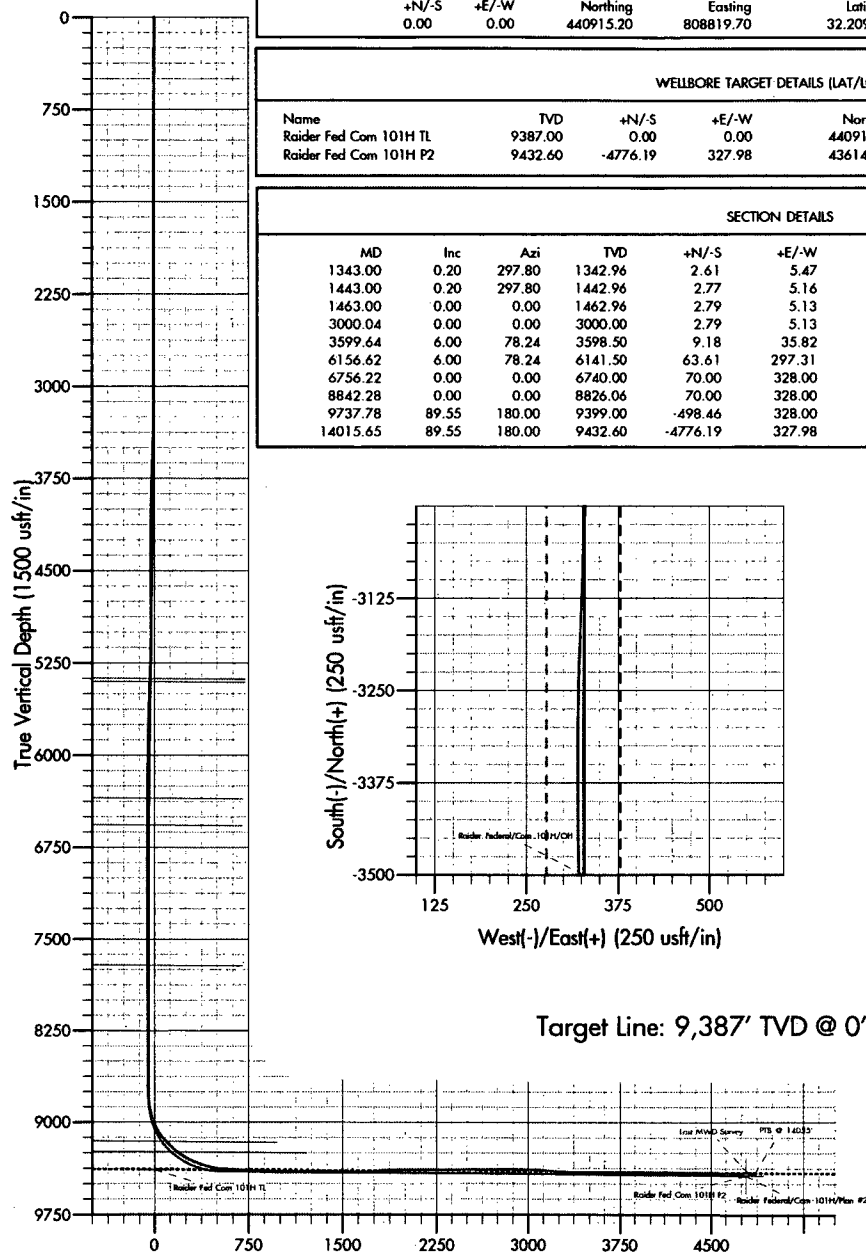
Formation Tops

TVDPath	Formation
5377.75	Lamor
5402.74	Bell Canyon
6348.64	Cherry Canyon
6567.63	Manzanita Lime
7713.63	Brushy Canyon
9158.46	Bone Spring Lime
9242.03	Avalon Shale

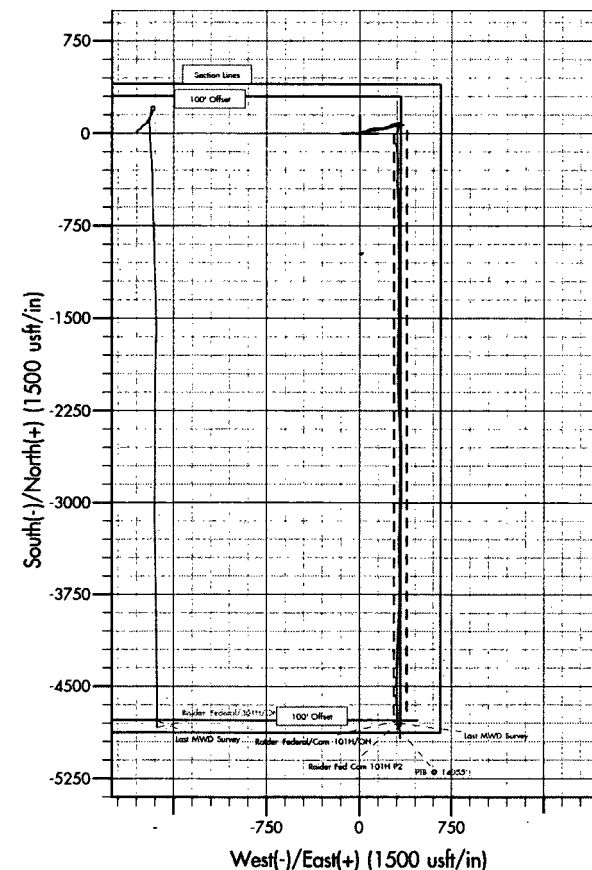


CASING DETAILS

No casing data is available



Vertical Section at 176.07° (1500 usft/in)



Plan: Plan #2 (Com 101H/OH)

Created By: Dusty Mayers Date: 8/32, October 22 2018