



PHOENIX
TECHNOLOGY SERVICES

30-025-46021

October 10, 2019

Oil Conservation Division
State of New Mexico
1625 N. French Drive
Hobbs, New Mexico 88240

HOBBS OCD

Dear District 1 - Hobbs

OCT 30 2019

Re: Centennial Resources
Carne Asada State Com 501H
Lea County, NM
API #30-025-46021
Job No. 65376

RECEIVED

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced well by Phoenix Technology Services, Inc. Other information required by your office is as follows:

Name & Title of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Larry Seebeck	501H	1,907	18,073	9/26/19	10/7/19	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

Brittany Carley

Brittany Carley
Operations Administrator

SURVEY DATA CERTIFICATION



PHOENIX
TECHNOLOGY SERVICES

Job #: 65376
Client: Centennial Resources
County & State: Lea County, New Mexico
Well: Carne Asada State Com 501H
API No: 30-025-46021
Proposed Direction: 359.26°

TIE-IN DATA

MD	TVD	INC	AZM	N/-S	E/-W	DATA SOURCE
1873.50 ft	1873.46 ft	0.60°	241.72°	1.6 S	.67 E	Gyro
Data Source Company:						Centennial

SURVEY DATA

First Survey Date	First Survey Depth	INC	AZM
26-Sep-19	1,907 ft	0.49°	175.74°

Last Survey Date	Last Survey Depth	INC	AZM
7-Oct-19	18,073 ft	90.22°	1.83°

Survey Instrument Type
P-360

Projected TD Survey Date	Projected TD Survey Depth	INC	AZM
7-Oct-19	18,115 ft	90.22°	1.83°

CORRECTION INFORMATION

Magnetic Declination Used	6.70 degrees
Grid Convergence Used	degrees

Corrected to True/Grid North
True North

Total Correction	6.70 degrees
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TO THE BEST OF MY KNOWLEDGE, I
CERTIFY THIS SURVEY DATA TO BE TRUE
AND CORRECT.

Larry Seebeck

Signature

10/7/2019

Date



PHOENIX
TECHNOLOGY SERVICES

Centennial Resources Development, Inc.

Lea County, NM (NAD83 - UTM Zone 13)
Carne Asada Sate Com
501H

OH / 65376

Survey: Phoenix MWD Surveys

Standard Survey Report

08 October, 2019





Survey Report



Company: Centennial Resources Development, Inc.
Project: Lea County, NM (NAD83 - UTM Zone 13)
Site: Came Asada Sate Com
Well: 501H
Wellbore: OH / 65376
Design: Surveys (H&P 650)

Local Co-ordinate Reference: Well 501H
TVD Reference: RKB @ 3662.30usft (H&P 650)
MD Reference: RKB @ 3662.30usft (H&P 650)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: USA Compass

Project	Lea County, NM (NAD83 - UTM Zone 13)		
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)		Using geodetic scale factor

Site	Came Asada Sate Com		
Site Position:		Northing:	11,767,032.87 usft
From:	Map	Easting:	2,132,406.52 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.406371
		Longitude:	-103.405399
		Grid Convergence:	0.85 °

Well	501H		
Well Position	+N/-S	0.00 usft	Northing: 11,767,032.87 usft
	+E/-W	0.00 usft	Easting: 2,132,406.52 usft
Position Uncertainty	1.00 usft	Wellhead Elevation:	usft
		Latitude:	32.406371
		Longitude:	-103.405399
		Ground Level:	3,635.80 usft

Wellbore	OH / 65376		
Magnetics	Model Name	Sample Date	Declination (°)
	User Defined	9/15/2019	6.70
		Dip Angle (°)	60.07
		Field Strength (nT)	47,952.00000000

Design	Surveys (H&P 650)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
		Direction (°)	157.31

Survey Program	Date 10/8/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
26.50	1,873.50	Wildfire MWD Surveys (OH / 65376)	MWD
1,907.00	18,115.00	Phoenix MWD Surveys (OH / 65376)	MWD+IFR1+MS
			Description
			OWSG MWD - Standard
			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)
1,873.50	0.60	241.72	1,873.46	-1.60	0.67	1.73	0.00	0.00	0.00
Tie In									
1,907.00	0.49	175.74	1,906.96	-1.83	0.53	1.89	1.79	-0.33	-196.96
First Phoenix MWD Survey									
2,001.00	0.80	156.97	2,000.95	-2.83	0.81	2.93	0.39	0.33	-19.97
2,095.00	1.06	129.34	2,094.94	-3.99	1.74	4.35	0.54	0.28	-29.39
2,189.00	1.18	115.14	2,188.92	-4.95	3.29	5.83	0.32	0.13	-15.11
2,282.00	1.20	108.71	2,281.90	-5.67	5.08	7.19	0.15	0.02	-6.91
2,376.00	1.13	105.48	2,375.88	-6.23	6.91	8.41	0.10	-0.07	-3.44



Survey Report



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MD Reference: RKB @ 3662.30usft (H&P 650)
North Reference: True
Survey Calculation Method: Minimum Curvature
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)
2,471.00	1.22	156.26	2,470.87	-7.41	8.22	10.00	1.06	0.09	53.45
2,565.00	1.62	179.44	2,564.84	-9.65	8.63	12.23	0.74	0.43	24.66
2,659.00	1.49	190.73	2,658.80	-12.18	8.42	14.48	0.35	-0.14	12.01
2,753.00	1.60	222.62	2,752.77	-14.35	7.30	16.05	0.91	0.12	33.93
2,847.00	1.55	232.31	2,846.74	-16.09	5.41	16.93	0.29	-0.05	10.31
2,941.00	1.48	238.34	2,940.70	-17.50	3.37	17.45	0.19	-0.07	6.41
3,035.00	1.37	244.12	3,034.67	-18.63	1.32	17.70	0.19	-0.12	6.15
3,128.00	1.01	265.81	3,127.65	-19.18	-0.50	17.50	0.61	-0.39	23.32
3,223.00	0.91	205.88	3,222.64	-19.92	-1.66	17.73	1.01	-0.11	-63.08
3,316.00	2.45	176.91	3,315.60	-22.57	-1.88	20.10	1.84	1.66	-31.15
3,410.00	3.89	175.96	3,409.46	-27.75	-1.54	25.01	1.53	1.53	-1.01
3,504.00	4.66	178.37	3,503.19	-34.75	-1.21	31.59	0.84	0.82	2.56
3,598.00	5.35	179.66	3,596.83	-42.95	-1.07	39.21	0.74	0.73	1.37
3,692.00	6.77	184.21	3,690.31	-52.86	-1.45	48.21	1.59	1.51	4.84
3,786.00	7.89	189.81	3,783.54	-64.74	-2.96	58.59	1.41	1.19	5.96
3,880.00	7.66	189.65	3,876.67	-77.28	-5.11	69.32	0.25	-0.24	-0.17
3,974.00	7.40	194.99	3,969.86	-89.30	-7.73	79.41	0.79	-0.28	5.68
4,068.00	6.73	198.18	4,063.15	-100.38	-11.01	88.36	0.83	-0.71	3.39
4,162.00	5.90	201.80	4,156.58	-110.10	-14.52	95.97	0.98	-0.88	3.85
4,256.00	5.23	205.41	4,250.14	-118.45	-18.16	102.28	0.80	-0.71	3.84
4,350.00	4.93	209.90	4,343.77	-125.83	-22.01	107.60	0.53	-0.32	4.78
4,444.00	5.30	211.31	4,437.39	-133.04	-26.28	112.60	0.42	0.39	1.50
4,538.00	5.00	210.69	4,531.01	-140.27	-30.62	117.60	0.32	-0.32	-0.66
4,632.00	5.31	219.79	4,624.63	-147.13	-35.50	122.05	0.93	0.33	9.68
4,726.00	6.27	232.21	4,718.16	-153.62	-42.34	125.40	1.67	1.02	13.21
4,821.00	6.28	233.37	4,812.59	-159.90	-50.61	128.00	0.13	0.01	1.22
4,914.00	6.32	233.41	4,905.03	-165.99	-58.80	130.45	0.04	0.04	0.04
5,009.00	6.26	232.81	4,999.46	-172.23	-67.12	133.01	0.09	-0.06	-0.63
5,102.00	5.62	233.72	5,091.96	-177.99	-74.84	135.35	0.70	-0.69	0.98
5,196.00	4.32	237.86	5,185.60	-182.60	-81.54	137.01	1.43	-1.38	4.40
5,290.00	3.72	241.97	5,279.37	-185.92	-87.23	137.87	0.71	-0.64	4.37
5,384.00	3.80	246.86	5,373.17	-188.57	-92.79	138.18	0.35	0.09	5.20
5,450.00	3.78	247.80	5,439.02	-190.26	-96.81	138.18	0.10	-0.03	1.42
5,541.00	3.99	245.99	5,529.81	-192.68	-102.48	138.23	0.27	0.23	-1.99
5,635.00	4.10	243.69	5,623.58	-195.50	-108.48	138.51	0.21	0.12	-2.45
5,730.00	2.28	205.21	5,718.44	-198.71	-112.33	140.00	2.86	-1.92	-40.51
5,824.00	1.77	196.46	5,812.38	-201.80	-113.54	142.38	0.63	-0.54	-9.31
5,918.00	1.53	128.04	5,906.35	-203.96	-112.96	144.60	1.98	-0.26	-72.79
6,012.00	1.24	94.82	6,000.32	-204.82	-110.96	146.16	0.89	-0.31	-35.34
6,106.00	1.49	64.12	6,094.30	-204.37	-108.85	146.56	0.81	0.27	-32.66
6,200.00	1.32	62.68	6,188.27	-203.34	-106.79	146.41	0.18	-0.18	-1.53
6,294.00	1.53	52.26	6,282.24	-202.08	-104.83	145.99	0.35	0.22	-11.09
6,389.00	1.51	56.91	6,377.21	-200.62	-102.78	145.44	0.13	-0.02	4.89



Survey Report



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Site: Came Asada Sate Com
Well: 501H
Wellbore: OH / 65376
Design: Surveys (H&P 650)

Local Co-ordinate Reference: Well 501H
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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)
6,483.00	1.50	51.45	6,471.17	-199.18	-100.78	144.88	0.15	-0.01	-5.81
6,577.00	1.31	44.56	6,565.15	-197.64	-99.07	144.13	0.27	-0.20	-7.33
6,671.00	1.23	42.51	6,659.12	-196.13	-97.63	143.29	0.10	-0.09	-2.18
6,765.00	1.38	54.01	6,753.10	-194.73	-96.03	142.61	0.32	0.16	12.23
6,860.00	1.07	58.67	6,848.08	-193.59	-94.35	142.21	0.34	-0.33	4.91
6,954.00	0.58	52.41	6,942.07	-192.85	-93.22	141.95	0.53	-0.52	-6.66
7,048.00	0.79	75.35	7,036.06	-192.39	-92.22	141.92	0.36	0.22	24.40
7,143.00	0.77	102.57	7,131.05	-192.36	-90.96	142.38	0.39	-0.02	28.65
7,237.00	1.06	112.60	7,225.04	-192.84	-89.54	143.37	0.35	0.31	10.67
7,330.00	1.05	107.08	7,318.02	-193.42	-87.93	144.52	0.11	-0.01	-5.94
7,424.00	1.14	96.05	7,412.01	-193.77	-86.18	145.52	0.24	0.10	-11.73
7,518.00	1.52	100.36	7,505.98	-194.09	-84.02	146.65	0.42	0.40	4.59
7,612.00	1.65	87.94	7,599.95	-194.27	-81.45	147.81	0.39	0.14	-13.21
7,706.00	1.61	90.51	7,693.91	-194.23	-78.77	148.81	0.09	-0.04	2.73
7,800.00	2.00	90.24	7,787.86	-194.25	-75.81	149.97	0.41	0.41	-0.29
7,895.00	1.78	95.98	7,882.81	-194.41	-72.69	151.32	0.31	-0.23	6.04
7,989.00	2.17	94.48	7,976.75	-194.70	-69.46	152.83	0.42	0.41	-1.60
8,083.00	2.09	98.49	8,070.69	-195.09	-65.99	154.53	0.18	-0.09	4.27
8,177.00	2.18	90.43	8,164.62	-195.36	-62.51	156.12	0.33	0.10	-8.57
8,271.00	2.30	93.76	8,258.55	-195.50	-58.84	157.66	0.19	0.13	3.54
8,365.00	2.05	93.47	8,352.48	-195.72	-55.28	159.25	0.27	-0.27	-0.31
8,460.00	1.91	80.46	8,447.43	-195.56	-52.02	160.36	0.49	-0.15	-13.69
8,554.00	1.51	83.20	8,541.38	-195.16	-49.25	161.05	0.43	-0.43	2.91
8,648.00	1.34	76.41	8,635.36	-194.75	-46.95	161.56	0.25	-0.18	-7.22
8,742.00	0.78	55.46	8,729.34	-194.13	-45.35	161.61	0.72	-0.60	-22.29
8,836.00	0.59	245.06	8,823.34	-193.97	-45.26	161.49	1.45	-0.20	-181.28
8,930.00	0.98	289.72	8,917.33	-193.90	-46.46	160.97	0.74	0.41	47.51
9,024.00	1.35	291.63	9,011.31	-193.22	-48.25	159.66	0.40	0.39	2.03
9,118.00	1.66	287.25	9,105.28	-192.41	-50.58	158.01	0.35	0.33	-4.66
9,213.00	2.44	271.47	9,200.22	-191.95	-53.91	156.30	1.01	0.82	-16.61
9,307.00	3.18	263.23	9,294.10	-192.21	-58.50	154.76	0.89	0.79	-8.77
9,401.00	3.15	278.84	9,387.96	-192.12	-63.64	152.70	0.91	-0.03	16.61
9,495.00	2.33	273.06	9,481.85	-191.62	-68.10	150.52	0.92	-0.87	-6.15
9,589.00	2.59	274.05	9,575.77	-191.37	-72.13	148.73	0.28	0.28	1.05
9,679.00	2.40	276.40	9,665.68	-191.01	-76.03	146.90	0.24	-0.21	2.61
9,776.00	4.87	326.55	9,762.50	-187.35	-80.32	141.86	3.92	2.55	51.70
9,823.00	10.15	346.48	9,809.09	-181.66	-82.39	135.81	12.36	11.23	42.40
9,870.00	14.48	1.26	9,855.01	-171.75	-83.23	126.34	11.33	9.21	31.45
9,917.00	19.73	3.20	9,899.91	-157.94	-82.66	113.83	11.23	11.17	4.13
9,964.00	22.84	5.31	9,943.70	-140.93	-81.37	98.63	6.81	6.62	4.49
10,011.00	28.07	359.95	9,986.13	-120.78	-80.53	80.36	12.15	11.13	-11.40
10,058.00	33.24	358.00	10,026.55	-96.83	-80.99	58.09	11.20	11.00	-4.15
10,105.00	38.70	357.44	10,064.57	-69.25	-82.10	32.22	11.64	11.62	-1.19
10,152.00	43.93	357.36	10,099.86	-38.27	-83.51	3.09	11.13	11.13	-0.17

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10,199.00	48.60	355.42	10,132.35	-4.39	-85.67	-29.00	10.37	9.94	-4.13
10,246.00	51.25	355.60	10,162.60	31.46	-88.48	-63.16	5.65	5.64	0.38
10,293.00	53.06	356.61	10,191.44	68.49	-91.00	-98.29	4.21	3.85	2.15
10,340.00	58.07	357.03	10,218.00	107.18	-93.14	-134.82	10.68	10.66	0.89
10,387.00	64.71	356.17	10,240.50	148.34	-95.60	-173.74	14.22	14.13	-1.83
10,434.00	68.06	358.98	10,259.33	191.36	-97.41	-214.12	8.99	7.13	5.98
10,481.00	69.95	358.45	10,276.17	235.23	-98.39	-254.97	4.16	4.02	-1.13
10,529.00	74.41	358.18	10,290.85	280.89	-99.74	-297.62	9.31	9.29	-0.56
10,576.00	81.31	358.91	10,300.73	326.80	-100.90	-340.43	14.76	14.68	1.55
10,623.00	86.86	358.46	10,305.57	373.52	-101.97	-383.94	11.85	11.81	-0.96
10,654.00	88.32	358.79	10,306.87	404.48	-102.72	-412.79	4.83	4.71	1.06
10,749.00	90.20	358.70	10,308.10	499.44	-104.80	-501.21	1.98	1.98	-0.09
10,843.00	91.46	357.30	10,306.74	593.37	-108.08	-589.13	2.00	1.34	-1.49
10,937.00	91.37	356.31	10,304.42	687.20	-113.31	-677.72	1.06	-0.10	-1.05
11,031.00	91.43	357.24	10,302.12	781.02	-118.60	-766.32	0.99	0.06	0.99
11,125.00	91.40	359.82	10,299.80	874.95	-121.01	-853.91	2.74	-0.03	2.74
11,220.00	91.34	0.98	10,297.53	969.92	-120.35	-941.27	1.22	-0.06	1.22
11,314.00	91.20	0.93	10,295.45	1,063.88	-118.78	-1,027.35	0.16	-0.15	-0.05
11,408.00	91.40	1.30	10,293.31	1,157.84	-116.95	-1,113.33	0.45	0.21	0.39
11,502.00	91.43	1.11	10,290.99	1,251.79	-114.98	-1,199.25	0.20	0.03	-0.20
11,596.00	91.29	1.19	10,288.76	1,345.75	-113.09	-1,285.20	0.17	-0.15	0.09
11,689.00	91.37	1.44	10,286.60	1,438.70	-110.96	-1,370.14	0.28	0.09	0.27
11,784.00	91.85	1.43	10,283.93	1,533.63	-108.58	-1,456.80	0.51	0.51	-0.01
11,879.00	91.82	1.35	10,280.89	1,628.55	-106.28	-1,543.49	0.09	-0.03	-0.08
11,973.00	91.74	1.00	10,277.97	1,722.49	-104.35	-1,629.41	0.38	-0.09	-0.37
12,068.00	91.85	1.30	10,274.99	1,817.42	-102.44	-1,716.26	0.34	0.12	0.32
12,162.00	91.82	0.56	10,271.98	1,911.36	-100.92	-1,802.34	0.79	-0.03	-0.79
12,256.00	91.87	1.04	10,268.96	2,005.30	-99.61	-1,888.50	0.51	0.05	0.51
12,350.00	91.76	1.24	10,265.98	2,099.24	-97.74	-1,974.45	0.24	-0.12	0.21
12,445.00	90.98	1.46	10,263.71	2,194.18	-95.50	-2,061.18	0.85	-0.82	0.23
12,539.00	90.90	1.62	10,262.17	2,288.14	-92.97	-2,146.88	0.19	-0.09	0.17
12,633.00	90.90	1.54	10,260.69	2,382.09	-90.38	-2,232.56	0.09	0.00	-0.09
12,727.00	90.73	1.20	10,259.35	2,476.05	-88.14	-2,318.39	0.40	-0.18	-0.36
12,821.00	90.73	0.21	10,258.16	2,570.04	-86.98	-2,404.65	1.05	0.00	-1.05
12,915.00	91.01	1.50	10,256.73	2,664.01	-85.58	-2,490.81	1.40	0.30	1.37
13,009.00	90.73	1.01	10,255.30	2,757.98	-83.52	-2,576.71	0.60	-0.30	-0.52
13,103.00	91.04	1.41	10,253.85	2,851.95	-81.53	-2,662.64	0.54	0.33	0.43
13,197.00	90.84	0.03	10,252.31	2,945.92	-80.35	-2,748.89	1.48	-0.21	-1.47
13,291.00	90.90	359.51	10,250.88	3,039.91	-80.73	-2,835.74	0.56	0.06	-0.55
13,385.00	90.90	359.05	10,249.40	3,133.89	-81.91	-2,922.91	0.49	0.00	-0.49
13,479.00	90.76	359.40	10,248.04	3,227.87	-83.18	-3,010.10	0.40	-0.15	0.37
13,573.00	90.78	359.11	10,246.78	3,321.86	-84.40	-3,097.28	0.31	0.02	-0.31
13,667.00	90.92	359.25	10,245.38	3,415.84	-85.75	-3,184.51	0.21	0.15	0.15



Survey Report



Company: Centennial Resources Development, Inc.
Project: Lea County, NM (NAD83 - UTM Zone 13)
Site: Came Asada Sate Com
Well: 501H
Wellbore: OH / 65376
Design: Surveys (H&P 650)

Local Co-ordinate Reference: Well 501H
TVD Reference: RKB @ 3662.30usft (H&P 650)
MD Reference: RKB @ 3662.30usft (H&P 650)
North Reference: True
Survey Calculation Method: Minimum Curvature
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)
13,761.00	90.90	359.29	10,243.89	3,509.82	-86.95	-3,271.67	0.05	-0.02	0.04
13,855.00	91.06	0.00	10,242.28	3,603.80	-87.53	-3,358.61	0.77	0.17	0.76
13,949.00	91.04	359.42	10,240.56	3,697.78	-88.00	-3,445.50	0.62	-0.02	-0.62
14,043.00	90.92	359.42	10,238.95	3,791.77	-88.96	-3,532.57	0.13	-0.13	0.00
14,137.00	91.29	358.87	10,237.14	3,885.74	-90.36	-3,619.81	0.71	0.39	-0.59
14,231.00	91.57	359.01	10,234.80	3,979.69	-92.10	-3,707.16	0.33	0.30	0.15
14,325.00	91.20	359.64	10,232.52	4,073.66	-93.20	-3,794.28	0.78	-0.39	0.67
14,419.00	92.10	359.90	10,229.82	4,167.62	-93.58	-3,881.11	1.00	0.96	0.28
14,513.00	91.23	359.20	10,227.09	4,261.57	-94.32	-3,968.08	1.19	-0.93	-0.74
14,607.00	91.54	359.20	10,224.81	4,355.54	-95.63	-4,055.28	0.33	0.33	0.00
14,702.00	91.32	358.86	10,222.44	4,450.49	-97.24	-4,143.50	0.43	-0.23	-0.36
14,795.00	91.37	358.92	10,220.26	4,543.45	-99.04	-4,229.96	0.08	0.05	0.08
14,889.00	91.46	357.45	10,217.94	4,637.37	-102.02	-4,317.76	1.57	0.10	-1.56
14,983.00	90.84	356.05	10,216.05	4,731.20	-107.34	-4,406.38	1.63	-0.66	-1.49
15,077.00	91.54	357.91	10,214.10	4,825.04	-112.30	-4,494.87	2.11	0.74	1.98
15,171.00	91.62	359.10	10,211.51	4,918.97	-114.75	-4,582.48	1.27	0.09	1.27
15,266.00	91.34	1.11	10,209.05	5,013.94	-114.57	-4,670.02	2.14	-0.29	2.12
15,360.00	91.57	1.30	10,206.67	5,107.89	-112.60	-4,755.93	0.32	0.24	0.20
15,454.00	92.58	1.35	10,203.26	5,201.80	-110.42	-4,841.74	1.08	1.07	0.05
15,548.00	92.16	0.67	10,199.38	5,295.70	-108.77	-4,927.74	0.85	-0.45	-0.72
15,642.00	90.31	0.10	10,197.35	5,389.67	-108.14	-5,014.19	2.06	-1.97	-0.61
15,736.00	90.28	0.22	10,196.87	5,483.67	-107.88	-5,100.81	0.13	-0.03	0.13
15,830.00	90.59	359.62	10,196.15	5,577.67	-108.01	-5,187.58	0.72	0.33	-0.64
15,924.00	90.84	0.36	10,194.98	5,671.66	-108.02	-5,274.30	0.83	0.27	0.79
16,018.00	90.53	1.45	10,193.86	5,765.64	-106.54	-5,360.44	1.21	-0.33	1.16
16,112.00	90.48	1.75	10,193.03	5,859.60	-103.91	-5,446.11	0.32	-0.05	0.32
16,206.00	90.42	1.70	10,192.29	5,953.55	-101.08	-5,531.70	0.08	-0.06	-0.05
16,300.00	90.25	1.04	10,191.74	6,047.52	-98.84	-5,617.53	0.73	-0.18	-0.70
16,394.00	89.10	0.56	10,192.27	6,141.51	-97.52	-5,703.74	1.33	-1.22	-0.51
16,488.00	89.27	359.39	10,193.61	6,235.50	-97.57	-5,790.47	1.26	0.18	-1.24
16,583.00	89.72	359.82	10,194.45	6,330.49	-98.22	-5,878.36	0.66	0.47	0.45
16,677.00	89.36	359.97	10,195.20	6,424.49	-98.39	-5,965.15	0.41	-0.38	0.16
16,771.00	88.46	359.05	10,196.99	6,518.47	-99.20	-6,052.16	1.37	-0.96	-0.98
16,865.00	88.04	359.81	10,199.86	6,612.42	-100.13	-6,139.20	0.92	-0.45	0.81
16,959.00	88.54	0.43	10,202.67	6,706.38	-99.93	-6,225.81	0.85	0.53	0.66
17,053.00	89.89	1.93	10,203.95	6,800.34	-98.00	-6,311.75	2.15	1.44	1.60
17,147.00	90.17	1.74	10,203.90	6,894.29	-94.99	-6,397.27	0.36	0.30	-0.20
17,241.00	89.83	1.59	10,203.90	6,988.26	-92.26	-6,482.90	0.40	-0.36	-0.16
17,335.00	92.49	1.59	10,202.00	7,082.19	-89.65	-6,568.56	2.83	2.83	0.00
17,429.00	91.23	0.51	10,198.95	7,176.12	-87.93	-6,654.56	1.77	-1.34	-1.15
17,523.00	90.17	0.67	10,197.80	7,270.11	-86.96	-6,740.90	1.14	-1.13	0.17
17,618.00	90.20	1.93	10,197.49	7,365.08	-84.81	-6,827.69	1.33	0.03	1.33
17,712.00	90.08	2.12	10,197.27	7,459.02	-81.48	-6,913.08	0.24	-0.13	0.20



Survey Report



Company: Centennial Resources Development, Inc.
Project: Lea County, NM (NAD83 - UTM Zone 13)
Site: Carne Asada Sate Com
Well: 501H
Wellbore: OH / 65376
Design: Surveys (H&P 650)

Local Co-ordinate Reference: Well 501H
TVD Reference: RKB @ 3662.30usft (H&P 650)
MD Reference: RKB @ 3662.30usft (H&P 650)
North Reference: True
Survey Calculation Method: Minimum Curvature
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)
17,806.00	90.20	1.68	10,197.04	7,552.97	-78.37	-6,998.55	0.49	0.13	-0.47
17,900.00	90.17	1.56	10,196.73	7,646.93	-75.71	-7,084.21	0.13	-0.03	-0.13
17,994.00	90.28	1.11	10,196.36	7,740.91	-73.52	-7,170.07	0.49	0.12	-0.48
18,073.00	90.22	1.83	10,196.02	7,819.89	-71.48	-7,242.14	0.91	-0.08	0.91
Final Phoenix MWD Survey									
18,115.00	90.22	1.83	10,195.86	7,861.87	-70.14	-7,280.36	0.00	0.00	0.00
Projection to TD									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,873.50	1,873.46	-1.60	0.67	Tie In
1,907.00	1,906.96	-1.83	0.53	First Phoenix MWD Survey
18,073.00	10,196.02	7,819.89	-71.48	Final Phoenix MWD Survey
18,115.00	10,195.86	7,861.87	-70.14	Projection to TD

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 Road, Artec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code		3 Pool Name	
4 Property Code		5 Property Name CARNE ASADA STATE COM			6 Well Number 501H
7 OGRID No.		8 Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC			9 Elevation 3635.4'

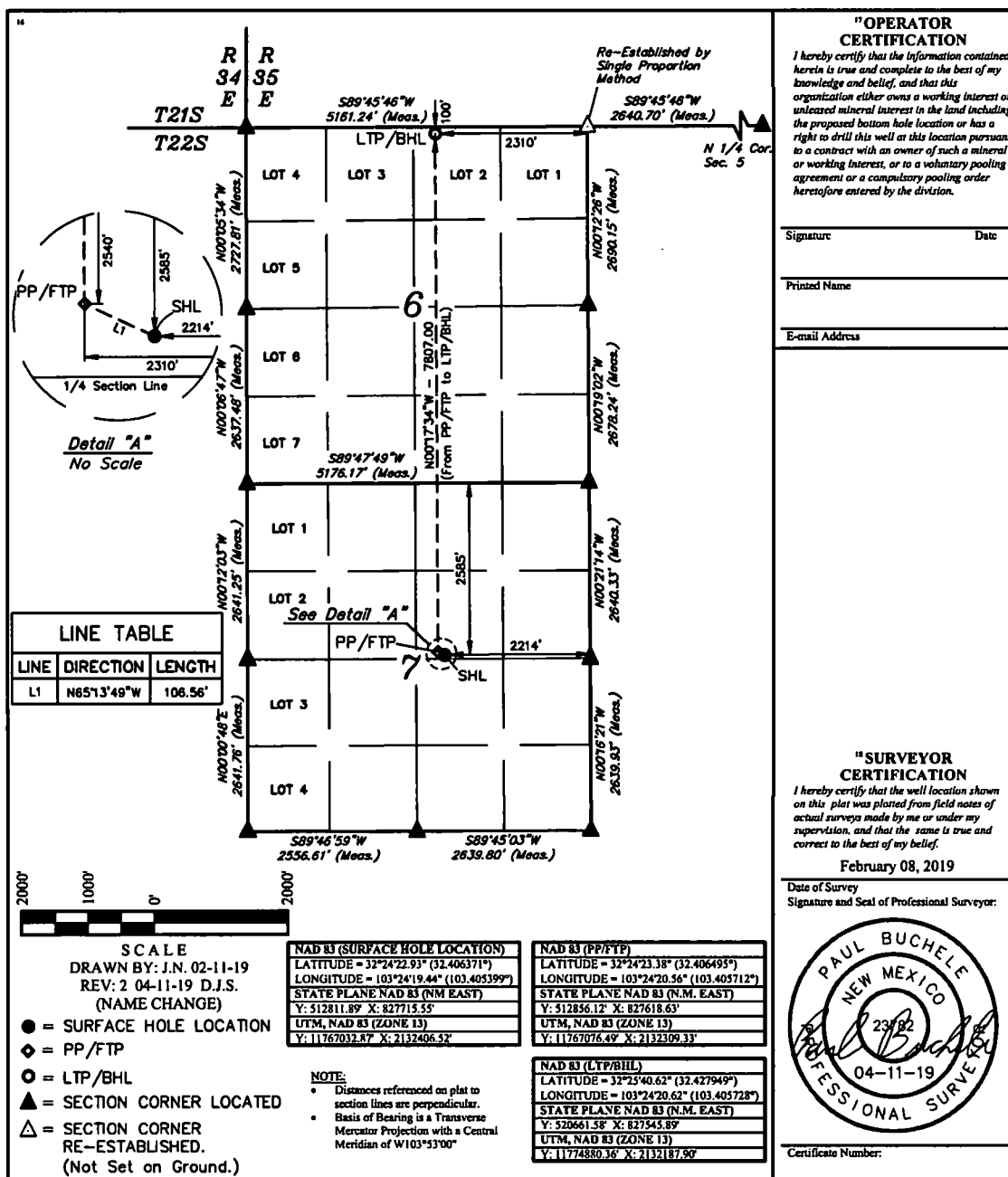
"Surface Location"

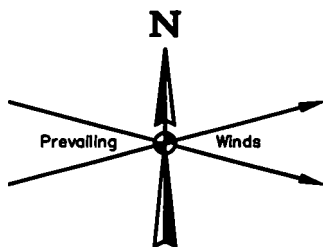
UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
G	7	22S	35E		2585	NORTH	2214	EAST	LEA

"Bottom Hole Location If Different From Surface"

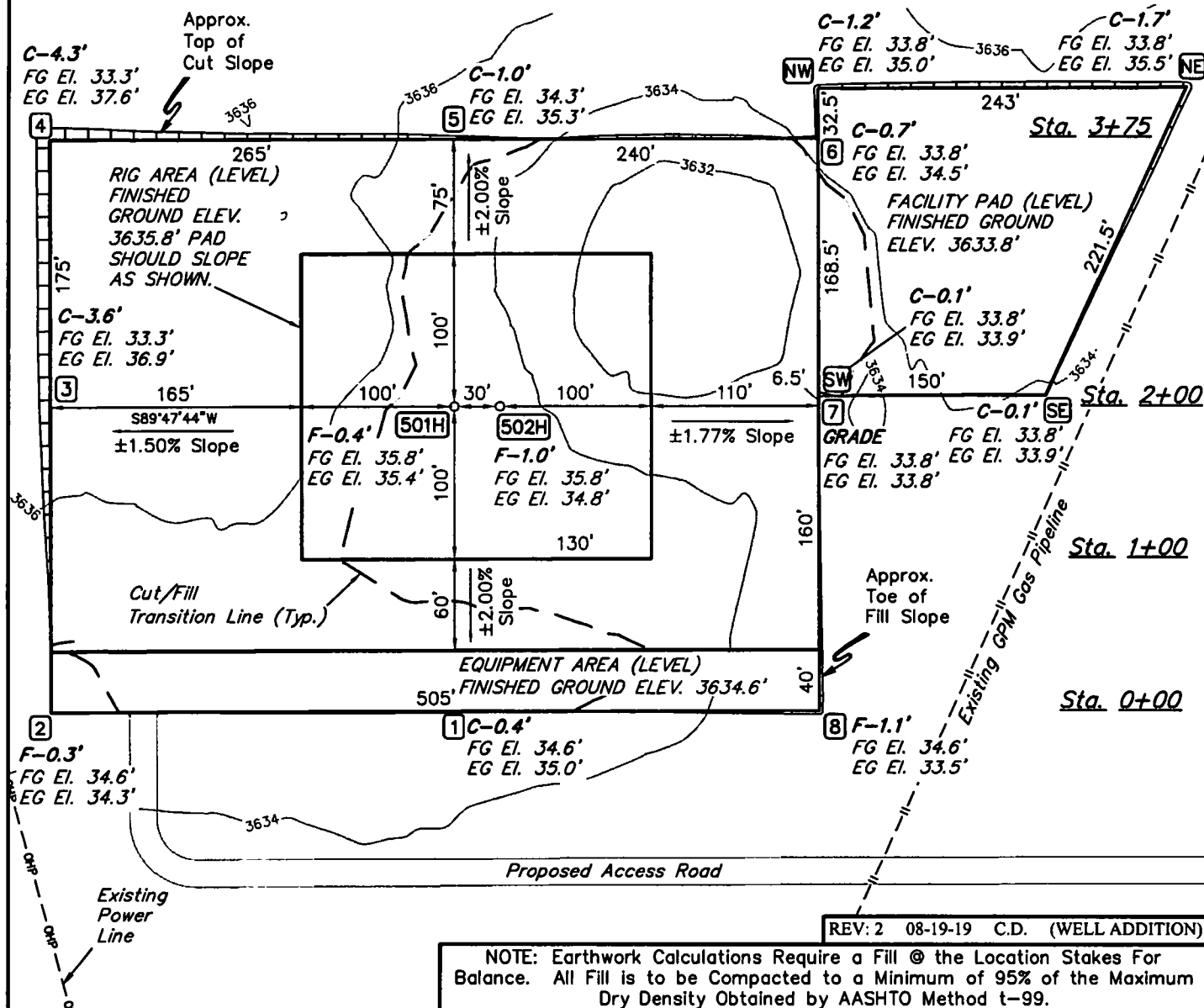
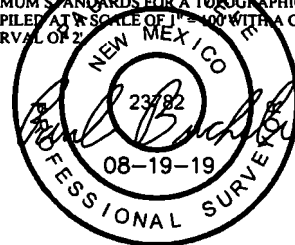
UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
2	6	22S	35E		100	NORTH	2310	EAST	LEA
10 Dedicated Acres 242.45		12 Joint or Infill		14 Consolidation Code		15 Order No.			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.





CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO PRODUCE DATA THAT MEET OR EXCEEDS THE MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP COMPILED AT A SCALE OF 1" = 100' WITH A CONTOUR INTERVAL OF 2'



NOTE: Earthwork Calculations Require a Fill @ the Location Stakes For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.

NOTES:

- Flare pit is to be located a min. of 100' from the wellhead.
- Contours shown at 2' intervals.
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00"
- Cut/Fill slopes 2:1 (Typ. except where noted)

CENTENNIAL RESOURCE PRODUCTION, LLC

CARNE ASADA STATE COM 501H & 502H
SW 1/4 NE 1/4, SECTION 7, T22S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

SURVEYED BY	B.B., S.L.	04-02-19	SCALE
DRAWN BY	J.N.	02-11-19	1" = 100'
LOCATION LAYOUT		FIGURE #1	