



PHOENIX
TECHNOLOGY SERVICES

30-025-46331

October 10, 2019

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

HOBBS OCD

OCT 30 2019

RECEIVED

Dear District 1 - Hobbs

Re: Centennial Resources
Carne Asada State Com 502H
Lea County, NM
API #30-025-46331
Job No. 65377

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	
J. Hunter	502H	1,929	17,907	9/13/19	9/23/19	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 #: 65377
 Client: Centennial Resources
 County & State: Lea County NM
 Well: Carne Asada State Com 502H
 API No: 30-025-46331
 Proposed Direction: 3.85

TIE-IN DATA

MD	TVD	INC	AZM	N/-S	E/-W	DATA SOURCE
1853.50	1853.38	0.9	278.7	5.29	-3.41	Surface
Data Source Company:						Phoenix

SURVEY DATA

First Survey Date	First Survey Depth	INC	AZM
13-Sep-19	1,929 ft	0.86°	295.70°

Last Survey Date	Last Survey Depth	INC	AZM
23-Sep-19	17,907 ft	89.82°	359.87°

Survey Instrument Type
Phoenix MWD

Projected TD Survey Date	Projected TD Survey Depth	INC	AZM
23-Sep-19	17,949 ft	89.82°	359.87°

CORRECTION INFORMATION

Magnetic Declination Used	6.70 degrees
Grid Convergence Used	degrees

Corrected to True/Grid North
TRUE

Total Correction	6.70 degrees 490
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TO THE BEST OF MY KNOWLEDGE, I
CERTIFY THIS SURVEY DATA TO BE TRUE
AND CORRECT.

J Hunter
Signature

September 23, 2019
Date

**Centennial Resources
Development, Inc.**

Lea County, NM (NAD83 - UTM Zone 13)
Carne Asada Sate Com
502H

OH / 65377

Survey: Phoenix MWD Surveys

Standard Survey Report

24 September, 2019

Survey Report

Company: Centennial Resources Development, Inc.	Local Co-ordinate Reference: Well 502H
Project: Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference: RKB @ 3662.30usft (H&P 650)
Site: Carne Asada Sate Com	MD Reference: RKB @ 3662.30usft (H&P 650)
Well: 502H	North Reference: True
Wellbore: OH / 65377	Survey Calculation Method: Minimum Curvature
Design: Surveys (H&P 650)	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 Carne Asada Sate Com

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

Well	502H					
Well Position	+N/-S	0.00 usft	Northing:	11,767,033.29 usft	Latitude:	32.406371
	+E/-W	0.00 usft	Easting:	2,132,436.51 usft	Longitude:	-103.405302
Position Uncertainty		1.00 usft	Wellhead Elevation:	usft	Ground Level:	3,635.80 usft

Wellbore OH / 65377

Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	User Defined	9/10/2019	6.70	60.07	47,953.00000000

Design Surveys (H&P 650)

Audit Notes:

Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	3.85	

Survey Program Date 9/24/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
26.50	1,853.50	Wildfire MWD Surveys (OH / 65377)	MWD	OWSG MWD - Standard
1,929.00	17,949.00	Phoenix MWD Surveys (OH / 65377)	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)
1,853.50	0.90	278.70	1,853.38	5.29	-3.41	5.05	0.00	0.00	0.00
Tie In									
1,929.00	0.86	295.70	1,928.87	5.63	-4.51	5.31	0.35	-0.05	22.52
First Phoenix MWD Survey									
1,991.00	0.27	275.99	1,990.87	5.84	-5.07	5.49	0.99	-0.95	-31.79
2,085.00	2.44	109.32	2,084.85	5.20	-3.40	4.96	2.88	2.31	-177.31
2,179.00	4.24	105.85	2,178.68	3.59	1.83	3.71	1.93	1.91	-3.69
2,273.00	4.38	105.88	2,272.42	1.66	8.63	2.24	0.15	0.15	0.03
2,367.00	5.09	109.58	2,366.09	-0.72	16.01	0.36	0.82	0.76	3.94

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Site:	Came Asada Sate Com	MD Reference:	RKB @ 3662.30usft (H&P 650)
Well:	502H	North Reference:	True
Wellbore:	OH / 65377	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 650)	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)
2,461.00	6.16	113.01	2,459.64	-4.09	24.58	-2.43	1.19	1.14	3.65
2,555.00	7.64	115.74	2,552.96	-8.77	34.85	-6.41	1.61	1.57	2.90
2,649.00	8.51	114.62	2,646.03	-14.38	46.80	-11.21	0.94	0.93	-1.19
2,743.00	8.46	114.72	2,739.00	-20.17	59.40	-16.14	0.06	-0.05	0.11
2,837.00	7.97	110.86	2,832.03	-25.39	71.78	-20.51	0.78	-0.52	-4.11
2,931.00	7.80	110.90	2,925.14	-29.98	83.82	-24.29	0.18	-0.18	0.04
3,025.00	8.04	109.52	3,018.25	-34.45	95.98	-27.93	0.33	0.26	-1.47
3,119.00	8.43	107.21	3,111.28	-38.69	108.76	-31.30	0.54	0.41	-2.46
3,213.00	8.05	104.72	3,204.31	-42.40	121.70	-34.13	0.55	-0.40	-2.65
3,307.00	8.17	100.96	3,297.37	-45.34	134.63	-36.20	0.58	0.13	-4.00
3,401.00	7.53	98.11	3,390.49	-47.48	147.28	-37.48	0.80	-0.68	-3.03
3,495.00	7.21	102.30	3,483.71	-49.61	159.14	-38.81	0.67	-0.34	4.46
3,589.00	6.95	111.86	3,577.00	-52.98	170.19	-41.43	1.28	-0.28	10.17
3,683.00	7.04	116.93	3,670.30	-57.71	180.60	-45.45	0.66	0.10	5.39
3,776.00	6.41	118.16	3,762.66	-62.74	190.26	-49.82	0.69	-0.68	1.32
3,870.00	5.80	118.57	3,856.12	-67.49	199.05	-53.97	0.65	-0.65	0.44
3,964.00	6.04	115.58	3,949.62	-71.89	207.69	-57.79	0.42	0.26	-3.18
4,059.00	6.01	114.75	4,044.10	-76.13	216.71	-61.41	0.10	-0.03	-0.87
4,153.00	5.87	113.71	4,137.59	-80.13	225.58	-64.80	0.19	-0.15	-1.11
4,247.00	6.61	111.93	4,231.04	-84.08	235.00	-68.11	0.81	0.79	-1.89
4,341.00	6.86	112.62	4,324.39	-88.26	245.20	-71.60	0.28	0.27	0.73
4,435.00	6.98	112.04	4,417.70	-92.56	255.68	-75.19	0.15	0.13	-0.62
4,528.00	7.13	111.11	4,510.00	-96.76	266.30	-78.66	0.20	0.16	-1.00
4,623.00	7.05	110.45	4,604.27	-100.92	277.26	-82.08	0.12	-0.08	-0.69
4,717.00	7.11	110.75	4,697.56	-105.00	288.11	-85.42	0.07	0.06	0.32
4,811.00	7.20	110.52	4,790.82	-109.12	299.07	-88.80	0.10	0.10	-0.24
4,905.00	7.60	108.98	4,884.04	-113.21	310.46	-92.11	0.47	0.43	-1.64
4,999.00	7.96	108.83	4,977.18	-117.33	322.50	-95.41	0.38	0.38	-0.16
5,093.00	8.31	108.55	5,070.23	-121.59	335.10	-98.82	0.37	0.37	-0.30
5,187.00	8.51	108.16	5,163.22	-125.92	348.15	-102.26	0.22	0.21	-0.41
5,281.00	8.59	108.45	5,256.17	-130.31	361.42	-105.75	0.10	0.09	0.31
5,375.00	7.64	110.90	5,349.23	-134.76	373.91	-109.35	1.08	-1.01	2.61
5,435.00	6.94	112.90	5,408.75	-137.60	380.98	-111.71	1.24	-1.17	3.33
5,557.00	7.02	114.52	5,529.84	-143.56	394.55	-116.74	0.17	0.07	1.33
5,652.00	7.22	113.26	5,624.11	-148.33	405.32	-120.78	0.27	0.21	-1.33
5,746.00	7.08	113.57	5,717.38	-152.98	416.05	-124.69	0.15	-0.15	0.33
5,840.00	7.08	114.91	5,810.66	-157.73	426.62	-128.73	0.18	0.00	1.43
5,934.00	7.08	114.45	5,903.95	-162.57	437.14	-132.85	0.06	0.00	-0.49
6,028.00	7.04	100.29	5,997.24	-166.00	448.09	-135.53	1.85	-0.04	-15.06
6,122.00	7.23	100.00	6,090.51	-168.05	459.58	-136.81	0.21	0.20	-0.31
6,217.00	7.27	99.56	6,184.75	-170.09	471.39	-138.05	0.07	0.04	-0.46
6,310.00	7.21	99.09	6,277.01	-171.99	482.96	-139.17	0.09	-0.06	-0.51
6,405.00	6.88	96.91	6,371.29	-173.61	494.50	-140.02	0.45	-0.35	-2.29

Survey Report

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Well:	502H	North Reference:	True
Wellbore:	OH / 65377	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 650)	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)
6,499.00	6.33	109.51	6,464.67	-176.02	504.97	-141.72	1.64	-0.59	13.40
6,593.00	6.30	116.10	6,558.11	-180.02	514.49	-145.07	0.77	-0.03	7.01
6,688.00	5.50	120.66	6,652.60	-184.64	523.08	-149.10	0.98	-0.84	4.80
6,782.00	3.91	115.23	6,746.28	-188.30	529.86	-152.30	1.75	-1.69	-5.78
6,876.00	2.29	115.93	6,840.14	-190.49	534.45	-154.17	1.72	-1.72	0.74
6,970.00	0.69	136.22	6,934.11	-191.72	536.53	-155.26	1.77	-1.70	21.59
7,065.00	0.46	152.75	7,029.10	-192.47	537.10	-155.97	0.30	-0.24	17.40
7,159.00	0.49	130.34	7,123.10	-193.07	537.58	-156.53	0.20	0.03	-23.84
7,253.00	0.38	137.31	7,217.10	-193.55	538.09	-156.99	0.13	-0.12	7.41
7,347.00	0.34	179.05	7,311.10	-194.06	538.31	-157.48	0.28	-0.04	44.40
7,441.00	0.16	172.93	7,405.09	-194.47	538.33	-157.89	0.19	-0.19	-6.51
7,535.00	0.38	114.13	7,499.09	-194.73	538.63	-158.12	0.35	0.23	-62.55
7,629.00	0.23	95.05	7,593.09	-194.87	539.10	-158.24	0.19	-0.16	-20.30
7,723.00	0.46	118.89	7,687.09	-195.07	539.62	-158.40	0.28	0.24	25.36
7,817.00	0.38	107.62	7,781.09	-195.35	540.25	-158.63	0.12	-0.09	-11.99
7,911.00	0.65	107.51	7,875.08	-195.60	541.06	-158.83	0.29	0.29	-0.12
8,005.00	0.89	85.40	7,969.08	-195.71	542.29	-158.85	0.40	0.26	-23.52
8,099.00	0.95	97.31	8,063.06	-195.75	543.79	-158.79	0.21	0.06	12.67
8,193.00	1.16	84.62	8,157.05	-195.76	545.51	-158.69	0.33	0.22	-13.50
8,287.00	0.97	66.41	8,251.03	-195.35	547.19	-158.17	0.41	-0.20	-19.37
8,382.00	1.11	328.97	8,346.02	-194.24	547.45	-157.04	1.65	0.15	-102.57
8,476.00	1.29	319.57	8,440.00	-192.65	546.30	-155.54	0.28	0.19	-10.00
8,570.00	1.27	328.31	8,533.98	-190.96	545.06	-153.93	0.21	-0.02	9.30
8,665.00	1.19	334.45	8,628.96	-189.18	544.08	-152.22	0.16	-0.08	6.46
8,759.00	1.04	356.79	8,722.94	-187.44	543.62	-150.52	0.49	-0.16	23.77
8,853.00	1.04	8.70	8,816.92	-185.75	543.70	-148.82	0.23	0.00	12.67
8,947.00	0.77	20.19	8,910.91	-184.31	544.04	-147.37	0.34	-0.29	12.22
9,041.00	0.69	69.75	9,004.90	-183.52	544.79	-146.53	0.66	-0.09	52.72
9,135.00	0.48	32.47	9,098.90	-182.99	545.53	-145.95	0.45	-0.22	-39.66
9,229.00	0.42	332.00	9,192.90	-182.36	545.58	-145.31	0.49	-0.06	-64.33
9,323.00	0.47	321.88	9,286.89	-181.75	545.18	-144.73	0.10	0.05	-10.77
9,417.00	0.78	250.39	9,380.89	-181.66	544.34	-144.70	0.82	0.33	-76.05
9,500.00	0.99	210.46	9,463.88	-182.47	543.45	-145.57	0.77	0.25	-48.11
9,547.00	0.55	250.80	9,510.88	-182.89	543.03	-146.02	1.43	-0.94	85.83
9,594.00	3.37	348.41	9,557.85	-181.61	542.54	-144.78	7.42	6.00	207.68
9,641.00	8.36	356.59	9,604.59	-176.85	542.06	-140.05	10.74	10.62	17.40
9,688.00	12.83	0.76	9,650.78	-168.21	541.92	-131.45	9.64	9.51	8.87
9,735.00	15.92	8.94	9,696.31	-156.63	542.99	-119.81	7.85	6.57	17.40
9,782.00	18.06	11.50	9,741.25	-143.12	545.45	-106.17	4.82	4.55	5.45
9,829.00	22.14	8.10	9,785.38	-127.20	548.15	-90.11	9.03	8.68	-7.23
9,876.00	26.60	3.74	9,828.19	-107.92	550.09	-70.74	10.23	9.49	-9.28
9,923.00	32.11	0.85	9,869.14	-84.91	550.96	-47.73	12.10	11.72	-6.15
9,970.00	36.78	359.31	9,907.89	-58.34	550.97	-21.21	10.11	9.94	-3.28
10,017.00	43.72	358.48	9,943.74	-28.00	550.37	9.02	14.81	14.77	-1.77

Survey Report

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Wellbore: OH / 65377
Design: Surveys (H&P 650)

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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)
10,064.00	50.10	358.07	9,975.83	6.29	549.33	43.16	13.59	13.57	-0.87
10,111.00	56.31	357.40	10,003.97	43.88	547.84	80.57	13.26	13.21	-1.43
10,158.00	61.42	356.34	10,028.26	84.04	545.63	120.48	11.04	10.87	-2.26
10,205.00	65.10	358.49	10,049.41	125.96	543.75	162.18	8.83	7.83	4.57
10,252.00	70.23	359.13	10,067.26	169.41	542.86	205.47	10.99	10.91	1.36
10,299.00	76.50	1.04	10,080.71	214.41	542.93	250.39	13.90	13.34	4.06
10,346.00	81.47	0.97	10,089.69	260.53	543.74	296.45	10.58	10.57	-0.15
10,393.00	87.13	0.26	10,094.35	307.27	544.24	343.12	12.14	12.04	-1.51
10,440.00	89.82	0.51	10,095.60	354.25	544.56	390.02	5.75	5.72	0.53
10,472.00	90.38	0.54	10,095.55	386.25	544.85	421.96	1.75	1.75	0.09
10,560.00	90.42	358.49	10,094.93	474.24	544.11	509.70	2.33	0.05	-2.33
10,654.00	90.53	357.69	10,094.16	568.18	540.97	603.22	0.86	0.12	-0.85
10,749.00	90.84	358.98	10,093.02	663.13	538.21	697.78	1.40	0.33	1.36
10,843.00	90.81	358.11	10,091.67	757.09	535.83	791.36	0.93	-0.03	-0.93
10,937.00	90.87	359.15	10,090.29	851.06	533.58	884.96	1.11	0.06	1.11
11,031.00	90.70	358.32	10,089.00	945.02	531.51	978.58	0.90	-0.18	-0.88
11,125.00	90.73	357.97	10,087.83	1,038.97	528.46	1,072.10	0.37	0.03	-0.37
11,220.00	90.87	0.14	10,086.50	1,133.94	526.90	1,166.76	2.29	0.15	2.28
11,314.00	90.87	358.53	10,085.07	1,227.92	525.81	1,260.45	1.71	0.00	-1.71
11,408.00	90.67	357.68	10,083.81	1,321.86	522.70	1,353.97	0.93	-0.21	-0.90
11,502.00	91.34	358.59	10,082.16	1,415.79	519.64	1,447.49	1.20	0.71	0.97
11,596.00	92.52	0.36	10,079.00	1,509.73	518.78	1,541.15	2.26	1.26	1.88
11,690.00	92.38	359.21	10,074.98	1,603.64	518.43	1,634.83	1.23	-0.15	-1.22
11,784.00	92.32	0.03	10,071.12	1,697.56	517.80	1,728.49	0.87	-0.06	0.87
11,879.00	92.27	0.95	10,067.32	1,792.48	518.61	1,823.25	0.97	-0.05	0.97
11,973.00	92.41	1.59	10,063.48	1,886.38	520.70	1,917.08	0.70	0.15	0.68
12,068.00	92.30	359.98	10,059.58	1,981.28	522.00	2,011.86	1.70	-0.12	-1.69
12,162.00	92.18	359.95	10,055.90	2,075.21	521.94	2,105.57	0.13	-0.13	-0.03
12,256.00	91.90	1.39	10,052.56	2,169.14	523.04	2,199.37	1.56	-0.30	1.53
12,350.00	91.79	0.51	10,049.53	2,263.08	524.59	2,293.20	0.94	-0.12	-0.94
12,445.00	91.57	0.45	10,046.74	2,358.04	525.39	2,387.99	0.24	-0.23	-0.06
12,539.00	91.60	0.57	10,044.14	2,452.00	526.23	2,481.80	0.13	0.03	0.13
12,633.00	91.74	359.61	10,041.40	2,545.96	526.37	2,575.55	1.03	0.15	-1.02
12,727.00	91.57	359.83	10,038.69	2,639.91	525.92	2,669.27	0.30	-0.18	0.23
12,821.00	91.74	359.55	10,035.97	2,733.87	525.41	2,762.98	0.35	0.18	-0.30
12,915.00	91.23	0.00	10,033.54	2,827.84	525.04	2,856.71	0.72	-0.54	0.48
13,009.00	91.20	1.57	10,031.55	2,921.81	526.33	2,950.55	1.67	-0.03	1.67
13,103.00	90.70	1.15	10,029.99	3,015.77	528.56	3,044.45	0.69	-0.53	-0.45
13,197.00	90.73	0.46	10,028.81	3,109.75	529.88	3,138.31	0.73	0.03	-0.73
13,291.00	90.67	0.15	10,027.67	3,203.74	530.38	3,232.12	0.34	-0.06	-0.33
13,385.00	90.56	1.47	10,026.66	3,297.73	531.71	3,325.98	1.41	-0.12	1.40
13,479.00	90.98	0.88	10,025.39	3,391.70	533.63	3,419.87	0.77	0.45	-0.63
13,573.00	90.76	1.03	10,023.97	3,485.67	535.20	3,513.74	0.28	-0.23	0.16

Survey Report

Company:	Centennial Resources Development, Inc.	Local Co-ordinate Reference:	Well 502H
Project:	Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference:	RKB @ 3662.30usft (H&P 650)
Site:	Came Asada Sate Com	MD Reference:	RKB @ 3662.30usft (H&P 650)
Well:	502H	North Reference:	True
Wellbore:	OH / 65377	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (H&P 650)	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)
13,667.00	90.70	0.68	10,022.77	3,579.65	536.60	3,607.61	0.38	-0.06	-0.37
13,761.00	90.64	1.52	10,021.67	3,673.63	538.41	3,701.49	0.90	-0.06	0.89
13,855.00	90.64	0.64	10,020.62	3,767.61	540.18	3,795.37	0.94	0.00	-0.94
13,949.00	90.67	2.04	10,019.54	3,861.57	542.38	3,889.28	1.49	0.03	1.49
14,043.00	90.76	0.24	10,018.37	3,955.54	544.25	3,983.16	1.92	0.10	-1.91
14,138.00	90.53	0.26	10,017.30	4,050.54	544.66	4,077.97	0.24	-0.24	0.02
14,231.00	90.31	358.28	10,016.62	4,143.52	543.48	4,170.66	2.14	-0.24	-2.13
14,325.00	90.45	0.33	10,016.00	4,237.51	542.34	4,264.36	2.19	0.15	2.18
14,420.00	90.36	358.38	10,015.33	4,332.49	541.27	4,359.06	2.05	-0.09	-2.05
14,514.00	90.59	0.81	10,014.55	4,426.48	540.60	4,452.79	2.60	0.24	2.59
14,608.00	90.98	359.99	10,013.26	4,520.47	541.26	4,546.61	0.97	0.41	-0.87
14,702.00	90.39	358.02	10,012.13	4,614.44	539.63	4,640.26	2.19	-0.63	-2.10
14,795.00	90.45	357.38	10,011.45	4,707.37	535.89	4,732.72	0.69	0.06	-0.69
14,889.00	90.64	359.79	10,010.56	4,801.33	533.57	4,826.32	2.57	0.20	2.56
14,984.00	90.50	0.20	10,009.61	4,896.32	533.56	4,921.10	0.46	-0.15	0.43
15,077.00	90.28	357.38	10,008.98	4,989.29	531.60	5,013.72	3.04	-0.24	-3.03
15,171.00	90.28	356.66	10,008.52	5,083.16	526.71	5,107.05	0.77	0.00	-0.77
15,266.00	90.64	359.48	10,007.76	5,178.09	523.52	5,201.56	2.99	0.38	2.97
15,360.00	90.50	358.17	10,006.82	5,272.07	521.59	5,295.19	1.40	-0.15	-1.39
15,454.00	90.28	0.56	10,006.18	5,366.05	520.55	5,388.89	2.55	-0.23	2.54
15,548.00	90.42	359.57	10,005.61	5,460.05	520.65	5,482.69	1.06	0.15	-1.05
15,642.00	90.34	358.30	10,004.98	5,554.03	518.91	5,576.34	1.35	-0.09	-1.35
15,736.00	90.03	359.90	10,004.68	5,648.01	517.43	5,670.01	1.73	-0.33	1.70
15,830.00	90.34	358.92	10,004.38	5,742.01	516.46	5,763.73	1.09	0.33	-1.04
15,924.00	90.03	0.49	10,004.07	5,836.00	515.98	5,857.48	1.70	-0.33	1.67
16,018.00	90.53	0.20	10,003.61	5,930.00	516.54	5,951.30	0.61	0.53	-0.31
16,112.00	90.22	0.96	10,003.00	6,023.99	517.49	6,045.14	0.87	-0.33	0.81
16,206.00	90.73	0.65	10,002.22	6,117.98	518.82	6,139.01	0.63	0.54	-0.33
16,300.00	89.24	0.88	10,002.25	6,211.97	520.07	6,232.87	1.60	-1.59	0.24
16,394.00	88.99	0.17	10,003.70	6,305.95	520.93	6,326.70	0.80	-0.27	-0.76
16,488.00	88.91	359.41	10,005.42	6,399.93	520.59	6,420.45	0.81	-0.09	-0.81
16,583.00	88.94	358.98	10,007.20	6,494.91	519.25	6,515.11	0.45	0.03	-0.45
16,677.00	88.85	359.43	10,009.01	6,588.88	517.95	6,608.79	0.49	-0.10	0.48
16,771.00	88.94	359.13	10,010.83	6,682.86	516.77	6,702.47	0.33	0.10	-0.32
16,865.00	88.88	1.20	10,012.62	6,776.83	517.04	6,796.26	2.20	-0.06	2.20
16,959.00	89.24	1.82	10,014.16	6,870.79	519.52	6,890.16	0.76	0.38	0.66
17,053.00	88.82	1.28	10,015.75	6,964.74	522.06	6,984.07	0.73	-0.45	-0.57
17,147.00	88.88	0.63	10,017.64	7,058.71	523.62	7,077.93	0.69	0.06	-0.69
17,241.00	88.57	0.02	10,019.73	7,152.68	524.16	7,171.73	0.73	-0.33	-0.65
17,335.00	89.19	0.08	10,021.56	7,246.66	524.24	7,265.51	0.66	0.66	0.06
17,429.00	89.16	0.15	10,022.92	7,340.65	524.43	7,359.30	0.08	-0.03	0.07
17,523.00	89.52	358.67	10,024.00	7,434.64	523.46	7,453.01	1.62	0.38	-1.57
17,618.00	89.64	359.41	10,024.70	7,529.62	521.87	7,547.67	0.79	0.13	0.78

Survey Report

Company: Centennial Resources Development, Inc.	Local Co-ordinate Reference: Well 502H
Project: Lea County, NM (NAD83 - UTM Zone 13)	TVD Reference: RKB @ 3662.30usft (H&P 650)
Site: Carne Asada Sate Com	MD Reference: RKB @ 3662.30usft (H&P 650)
Well: 502H	North Reference: True
Wellbore: OH / 65377	Survey Calculation Method: Minimum Curvature
Design: Surveys (H&P 650)	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)
17,712.00	88.35	1.14	10,026.35	7,623.60	522.32	7,641.47	2.30	-1.37	1.84
17,806.00	90.00	1.10	10,027.70	7,717.57	524.16	7,735.35	1.76	1.76	-0.04
17,900.00	89.82	359.87	10,027.85	7,811.56	524.95	7,829.18	1.32	-0.19	-1.31
17,907.00	89.82	359.87	10,027.87	7,818.56	524.94	7,836.17	0.00	0.00	0.00
Final Phoenix MWD Survey									
17,949.00	89.82	359.87	10,028.00	7,860.56	524.84	7,878.06	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)	
1,853.50	1,853.38	5.29	-3.41	Tie In
1,929.00	1,928.87	5.63	-4.51	First Phoenix MWD Survey
17,907.00	10,027.87	7,818.56	524.94	Final Phoenix MWD Survey
17,949.00	10,028.00	7,860.56	524.84	Projection to TD

District I
1625 N. French Dr., Hobbs, NM 88240
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District II
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Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 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 502H
⁷ OGRID No.	⁸ Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC	⁹ Elevation 3634.8'

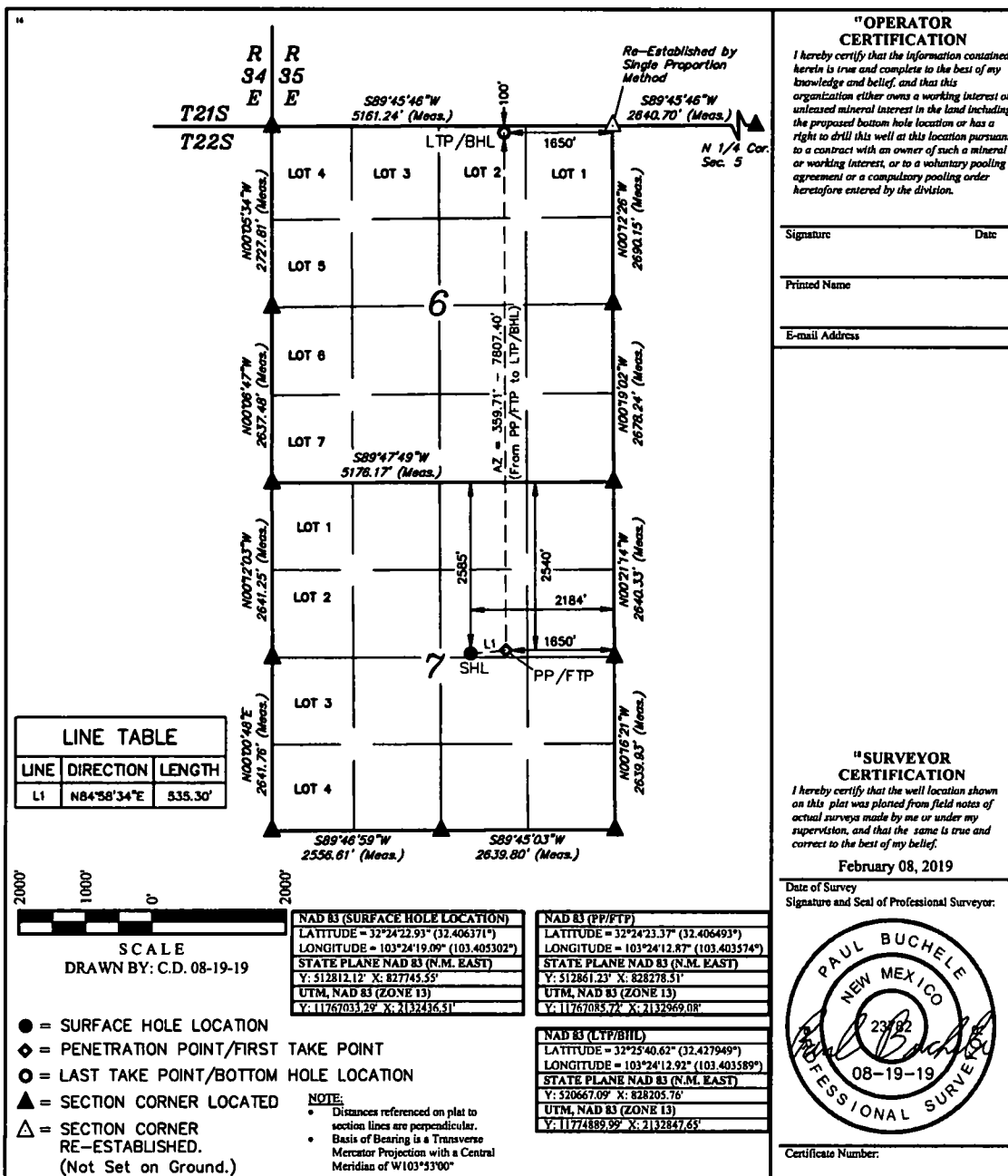
"Surface Location

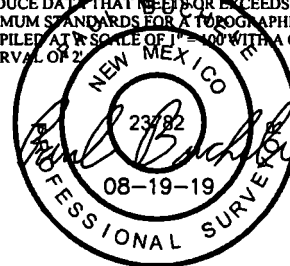
UL or lot no. G	Section 7	Township 22S	Range 35E	Lot Idn	Feet from the 2585	North/South line NORTH	Feet from the 2184	East/West line EAST	County LEA
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"Bottom Hole Location If Different From Surface

UL or lot no. 2	Section 6	Township 22S	Range 35E	Lot Idn	Feet from the 100	North/South line NORTH	Feet from the 1650	East/West line EAST	County LEA
¹² Dedicated Acres 242.45	¹³ 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.





NOTES:

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