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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 30-025-46434	² Pool Code 97293	³ Pool Name Ojo Chiso; Bone Spring, South
⁴ Property Code	⁵ Property Name PAC-MAN 36 FED COM	⁶ Well Number #601H
⁷ OGRID No. 372165	⁸ Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC	⁹ Elevation 3381.5'

¹⁰ Surface Location

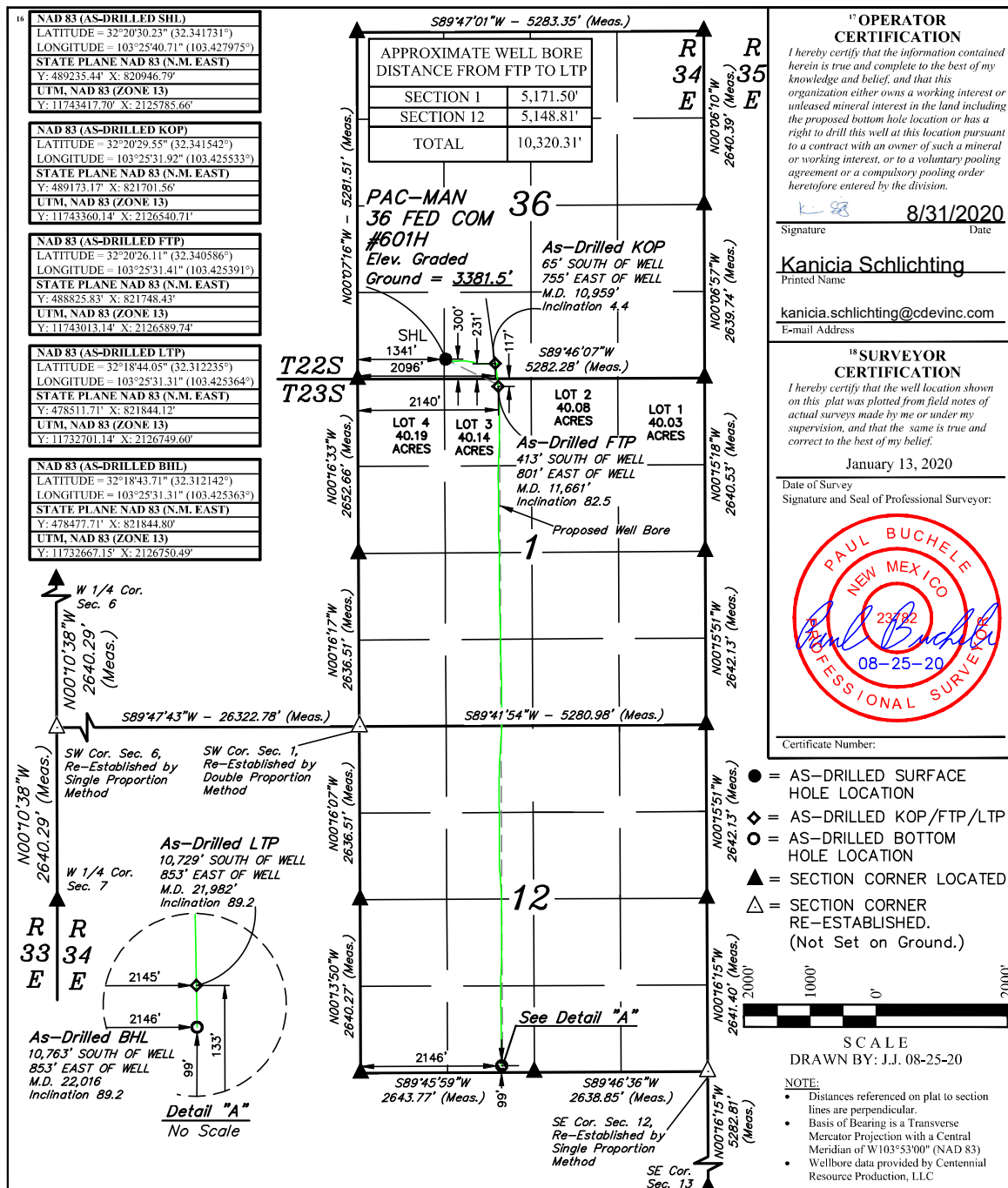
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	36	22S	34E		300	SOUTH	RE 1341	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	12	23S	34E		99	SOUTH	2146	WEST	LEA

¹² Dedicated Acres 640.33
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.





Centennial Resource Development, LLC

Lea County, NM (NAD 83 - UTM Zone 13 - True)

Pac-Man 36 Fed Com

Pac-Man 36 Fed Com #601H

OH

Design: OH

Standard Survey Report

27 February, 2020



Company:	Centennial Resource Development, LLC	Local Co-ordinate Reference:	Well Pac-Man 36 Fed Com #601H
Project:	Lea County, NM (NAD 83 - UTM Zone 13 - True)	TVD Reference:	3381.2' GE + 26.5' KB @ 3407.70usft
Site:	Pac-Man 36 Fed Com	MD Reference:	3381.2' GE + 26.5' KB @ 3407.70usft
Well:	Pac-Man 36 Fed Com #601H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

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

Site	Pac-Man 36 Fed Com				
Site Position:		Northing:	11,743,418.02 usft	Latitude:	32.341732
From:	Map	Easting:	2,125,784.53 usft	Longitude:	-103.427979
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.84 °

Well	Pac-Man 36 Fed Com #601H					
Well Position	+N/-S	0.00 usft	Northing:	11,743,418.02 usft	Latitude:	32.341732
	+E/-W	0.00 usft	Easting:	2,125,784.53 usft	Longitude:	-103.427979
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,381.20 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/23/2020	6.61	60.16	47,755.01513117

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	175.71	

Survey Program	Date	2/27/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
26.50	1,821.50	Survey #1 - Surface (OH)	MWD	OWSG MWD - Standard	
1,908.00	21,984.00	Survey #2 (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	
22,016.00	22,016.00	Survey #3 - Proj to TD (OH)	BLIND	OWSG BLIND	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (PM 36 Fed Com 601H)									
26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	0.00	0.00
125.50	0.80	219.66	125.50	-0.53	-0.44	0.50	0.81	0.81	0.00
186.50	1.00	264.66	186.49	-0.91	-1.24	0.81	1.17	0.33	73.77
272.50	1.00	277.66	272.48	-0.88	-2.73	0.67	0.26	0.00	15.12
359.50	1.00	264.66	359.46	-0.85	-4.24	0.53	0.26	0.00	-14.94
448.50	1.10	261.66	448.45	-1.04	-5.86	0.60	0.13	0.11	-3.37
538.50	0.90	271.66	538.44	-1.15	-7.42	0.59	0.29	-0.22	11.11

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Site:	Pac-Man 36 Fed Com	MD Reference:	3381.2' GE + 26.5' KB @ 3407.70usft
Well:	Pac-Man 36 Fed Com #601H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
627.50	0.80	258.66	627.43	-1.25	-8.73	0.60	0.24	-0.11	-14.61
717.50	0.90	242.66	717.42	-1.70	-9.97	0.95	0.28	0.11	-17.78
807.50	0.90	239.66	807.40	-2.38	-11.21	1.54	0.05	0.00	-3.33
897.50	0.90	232.66	897.39	-3.17	-12.38	2.23	0.12	0.00	-7.78
987.50	0.80	221.66	987.38	-4.07	-13.36	3.06	0.21	-0.11	-12.22
1,077.50	0.90	228.66	1,077.37	-5.00	-14.31	3.92	0.16	0.11	7.78
1,167.50	1.00	233.66	1,167.36	-5.93	-15.47	4.76	0.14	0.11	5.56
1,257.50	0.90	234.66	1,257.35	-6.81	-16.68	5.54	0.11	-0.11	1.11
1,347.50	0.70	234.66	1,347.34	-7.54	-17.71	6.19	0.22	-0.22	0.00
1,437.50	0.50	243.66	1,437.34	-8.03	-18.51	6.62	0.24	-0.22	10.00
1,527.50	0.50	220.66	1,527.33	-8.50	-19.12	7.05	0.22	0.00	-25.56
1,617.50	0.20	202.66	1,617.33	-8.94	-19.43	7.46	0.35	-0.33	-20.00
1,707.50	0.20	203.66	1,707.33	-9.23	-19.56	7.74	0.00	0.00	1.11
1,821.50	0.50	212.66	1,821.33	-9.83	-19.91	8.32	0.27	0.26	7.89
1,908.00	0.27	203.42	1,907.83	-10.34	-20.19	8.80	0.27	-0.27	-10.68
2,002.00	1.23	114.99	2,001.82	-10.97	-19.36	9.49	1.33	1.02	-94.07
2,095.00	3.44	99.19	2,094.74	-11.83	-15.70	10.63	2.45	2.38	-16.99
2,190.00	5.98	97.20	2,189.41	-12.91	-7.98	12.28	2.68	2.67	-2.09
2,284.00	7.67	93.56	2,282.74	-13.91	3.14	14.11	1.85	1.80	-3.87
2,378.00	7.74	99.49	2,375.89	-15.35	15.64	16.47	0.85	0.07	6.31
2,472.00	8.73	98.70	2,468.92	-17.47	28.94	19.58	1.06	1.05	-0.84
2,566.00	9.59	99.50	2,561.72	-19.84	43.71	23.05	0.92	0.91	0.85
2,660.00	9.32	99.00	2,654.44	-22.32	58.95	26.67	0.30	-0.29	-0.53
2,754.00	8.85	98.28	2,747.26	-24.56	73.63	29.99	0.51	-0.50	-0.77
2,848.00	8.68	98.30	2,840.17	-26.62	87.80	33.11	0.18	-0.18	0.02
2,942.00	8.44	97.12	2,933.12	-28.50	101.67	36.02	0.32	-0.26	-1.26
3,036.00	8.06	93.79	3,026.15	-29.79	115.09	38.31	0.65	-0.40	-3.54
3,130.00	7.65	93.12	3,119.26	-30.57	127.91	40.04	0.45	-0.44	-0.71
3,224.00	8.58	90.98	3,212.32	-31.03	141.17	41.49	1.04	0.99	-2.28
3,318.00	10.07	88.99	3,305.08	-31.00	156.40	42.61	1.62	1.59	-2.12
3,412.00	9.98	87.94	3,397.64	-30.56	172.75	43.39	0.22	-0.10	-1.12
3,507.00	9.59	86.43	3,491.26	-29.78	188.88	43.81	0.49	-0.41	-1.59
3,601.00	9.41	85.26	3,583.97	-28.65	204.35	43.85	0.28	-0.19	-1.24
3,695.00	9.15	84.53	3,676.74	-27.31	219.45	43.63	0.30	-0.28	-0.78
3,788.00	8.58	85.41	3,768.63	-26.05	233.73	43.44	0.63	-0.61	0.95
3,883.00	8.25	84.17	3,862.61	-24.79	247.57	43.22	0.40	-0.35	-1.31
3,977.00	8.22	90.00	3,955.64	-24.10	261.00	43.54	0.89	-0.03	6.20
4,071.00	8.58	98.73	4,048.64	-25.16	274.65	45.63	1.41	0.38	9.29
4,165.00	8.68	97.07	4,141.57	-27.10	288.62	48.60	0.29	0.11	-1.77
4,259.00	9.16	95.50	4,234.43	-28.69	303.11	51.27	0.57	0.51	-1.67
4,353.00	8.59	94.26	4,327.31	-29.93	317.56	53.59	0.64	-0.61	-1.32
4,447.00	8.16	94.15	4,420.31	-30.94	331.21	55.61	0.46	-0.46	-0.12
4,541.00	8.74	95.96	4,513.29	-32.16	344.97	57.86	0.68	0.62	1.93

Company:	Centennial Resource Development, LLC	Local Co-ordinate Reference:	Well Pac-Man 36 Fed Com #601H
Project:	Lea County, NM (NAD 83 - UTM Zone 13 - True)	TVD Reference:	3381.2' GE + 26.5' KB @ 3407.70usft
Site:	Pac-Man 36 Fed Com	MD Reference:	3381.2' GE + 26.5' KB @ 3407.70usft
Well:	Pac-Man 36 Fed Com #601H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,635.00	10.60	100.18	4,605.95	-34.43	360.58	61.29	2.12	1.98	4.49	
4,730.00	11.53	103.61	4,699.18	-38.21	378.41	66.39	1.20	0.98	3.61	
4,824.00	11.12	103.26	4,791.35	-42.50	396.36	72.01	0.44	-0.44	-0.37	
4,918.00	11.03	102.96	4,883.60	-46.59	413.95	77.41	0.11	-0.10	-0.32	
5,012.00	10.77	103.43	4,975.90	-50.65	431.25	82.75	0.29	-0.28	0.50	
5,106.00	10.45	103.72	5,068.30	-54.71	448.08	88.06	0.35	-0.34	0.31	
5,200.00	10.54	103.92	5,160.72	-58.80	464.71	93.38	0.10	0.10	0.21	
5,249.00	10.43	104.60	5,208.91	-61.00	473.35	96.21	0.34	-0.22	1.39	
5,363.00	9.97	105.61	5,321.10	-66.25	492.84	102.91	0.43	-0.40	0.89	
5,457.00	10.44	95.81	5,413.62	-69.31	509.15	107.17	1.91	0.50	-10.43	
5,551.00	10.66	93.81	5,506.03	-70.75	526.30	109.89	0.45	0.23	-2.13	
5,645.00	10.58	93.00	5,598.42	-71.78	543.59	112.21	0.18	-0.09	-0.86	
5,739.00	10.33	93.73	5,690.86	-72.78	560.62	114.48	0.30	-0.27	0.78	
5,833.00	10.10	95.21	5,783.37	-74.07	577.24	117.02	0.37	-0.24	1.57	
5,927.00	10.50	90.43	5,875.86	-74.89	594.01	119.08	1.00	0.43	-5.09	
6,021.00	10.76	89.09	5,968.25	-74.81	611.35	120.30	0.38	0.28	-1.43	
6,115.00	10.26	87.91	6,060.67	-74.37	628.49	121.14	0.58	-0.53	-1.26	
6,209.00	9.87	88.18	6,153.22	-73.80	644.91	121.81	0.42	-0.41	0.29	
6,303.00	9.27	85.58	6,245.92	-72.97	660.51	122.14	0.79	-0.64	-2.77	
6,396.00	8.76	84.34	6,337.77	-71.69	675.02	121.95	0.59	-0.55	-1.33	
6,491.00	9.39	91.47	6,431.58	-71.17	689.97	122.55	1.36	0.66	7.51	
6,585.00	9.46	92.26	6,524.31	-71.68	705.35	124.20	0.16	0.07	0.84	
6,679.00	9.14	91.10	6,617.08	-72.12	720.54	125.79	0.39	-0.34	-1.23	
6,773.00	9.34	95.71	6,709.86	-73.03	735.59	127.81	0.82	0.21	4.90	
6,867.00	9.18	97.40	6,802.63	-74.75	750.62	130.65	0.34	-0.17	1.80	
6,961.00	8.51	97.16	6,895.51	-76.58	764.95	133.55	0.71	-0.71	-0.26	
7,055.00	8.29	98.47	6,988.51	-78.45	778.56	136.43	0.31	-0.23	1.39	
7,149.00	7.97	99.36	7,081.56	-80.51	791.69	139.46	0.37	-0.34	0.95	
7,244.00	6.53	94.89	7,175.80	-82.04	803.57	141.88	1.63	-1.52	-4.71	
7,338.00	4.80	86.79	7,269.34	-82.27	812.82	142.81	2.02	-1.84	-8.62	
7,432.00	2.89	100.19	7,363.12	-82.47	819.08	143.47	2.23	-2.03	14.26	
7,526.00	2.46	107.06	7,457.02	-83.48	823.35	144.80	0.57	-0.46	7.31	
7,619.00	0.72	75.92	7,549.98	-83.93	825.82	145.43	2.02	-1.87	-33.48	
7,714.00	0.60	331.04	7,644.98	-83.35	826.16	144.87	1.10	-0.13	-110.40	
7,808.00	0.48	12.80	7,738.98	-82.53	826.01	144.05	0.43	-0.13	44.43	
7,902.00	0.55	314.27	7,832.97	-81.83	825.77	143.34	0.54	0.07	-62.27	
7,996.00	0.51	318.67	7,926.97	-81.20	825.17	142.66	0.06	-0.04	4.68	
8,090.00	0.53	333.68	8,020.96	-80.50	824.70	141.93	0.15	0.02	15.97	
8,184.00	0.71	345.13	8,114.96	-79.55	824.36	140.95	0.23	0.19	12.18	
8,278.00	0.58	332.20	8,208.95	-78.56	823.99	139.94	0.21	-0.14	-13.76	
8,372.00	0.74	337.75	8,302.95	-77.58	823.54	138.93	0.18	0.17	5.90	
8,466.00	0.97	310.88	8,396.94	-76.50	822.71	137.79	0.49	0.24	-28.59	
8,560.00	1.00	278.63	8,490.92	-75.86	821.29	137.04	0.58	0.03	-34.31	
8,654.00	1.05	281.77	8,584.91	-75.56	819.64	136.62	0.08	0.05	3.34	

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8,748.00	1.19	261.37	8,678.89	-75.53	817.83	136.45	0.45	0.15	-21.70
8,842.00	1.29	258.63	8,772.87	-75.88	815.83	136.66	0.12	0.11	-2.91
8,936.00	0.88	262.83	8,866.85	-76.18	814.08	136.82	0.44	-0.44	4.47
9,031.00	0.95	264.69	8,961.84	-76.34	812.57	136.88	0.08	0.07	1.96
9,125.00	1.26	278.38	9,055.82	-76.27	810.77	136.66	0.43	0.33	14.56
9,219.00	1.27	284.36	9,149.80	-75.86	808.74	136.10	0.14	0.01	6.36
9,313.00	1.58	279.97	9,243.77	-75.37	806.45	135.45	0.35	0.33	-4.67
9,407.00	1.05	281.87	9,337.75	-74.97	804.33	134.89	0.57	-0.56	2.02
9,501.00	1.21	288.64	9,431.73	-74.48	802.55	134.27	0.22	0.17	7.20
9,595.00	1.44	279.91	9,525.70	-73.96	800.45	133.59	0.32	0.24	-9.29
9,689.00	1.60	263.71	9,619.67	-73.90	797.98	133.35	0.49	0.17	-17.23
9,783.00	1.74	255.46	9,713.63	-74.40	795.29	133.65	0.30	0.15	-8.78
9,877.00	1.78	251.99	9,807.59	-75.21	792.52	134.25	0.12	0.04	-3.69
9,971.00	1.63	253.35	9,901.54	-76.04	789.85	134.88	0.17	-0.16	1.45
10,065.00	1.92	248.09	9,995.50	-77.02	787.11	135.64	0.35	0.31	-5.60
10,159.00	1.44	243.16	10,089.46	-78.14	784.60	136.57	0.53	-0.51	-5.24
10,253.00	1.71	245.40	10,183.42	-79.25	782.27	137.51	0.29	0.29	2.38
10,347.00	1.83	260.69	10,277.38	-80.08	779.51	138.13	0.52	0.13	16.27
10,442.00	2.24	267.50	10,372.32	-80.41	776.16	138.20	0.50	0.43	7.17
10,536.00	2.30	267.14	10,466.24	-80.58	772.44	138.10	0.07	0.06	-0.38
10,630.00	1.50	309.04	10,560.20	-79.90	769.60	137.21	1.65	-0.85	44.57
10,724.00	2.52	302.51	10,654.14	-78.01	766.90	135.13	1.11	1.09	-6.95
10,819.00	3.63	303.09	10,749.00	-75.25	762.62	132.05	1.17	1.17	0.61
10,898.00	4.86	308.06	10,827.78	-71.82	757.89	128.28	1.62	1.56	6.29
10,913.00	4.81	307.92	10,842.73	-71.04	756.89	127.43	0.34	-0.33	-0.93
10,960.00	4.38	314.25	10,889.58	-68.58	754.05	124.76	1.41	-0.91	13.47
10,965.21	4.03	316.63	10,894.77	-68.31	753.79	124.47	7.42	-6.63	45.70
KOP (PM 36 Fed Com 601H)									
11,007.00	1.95	5.00	10,936.51	-66.53	752.84	122.62	7.42	-4.99	115.75
KOP: 236' FSL, 2094' FWL S36									
11,054.00	4.13	157.82	10,983.48	-67.30	753.55	123.45	12.62	4.64	325.15
11,101.00	9.99	165.39	11,030.10	-72.82	755.22	129.07	12.60	12.47	16.11
11,148.00	15.09	166.74	11,075.96	-82.72	757.65	139.13	10.87	10.85	2.87
11,195.00	19.30	171.50	11,120.86	-96.37	760.20	152.93	9.44	8.96	10.13
11,243.00	24.21	172.13	11,165.42	-113.97	762.72	170.67	10.24	10.23	1.31
11,290.00	28.93	171.73	11,207.45	-134.78	765.68	191.64	10.05	10.04	-0.85
11,337.00	33.30	171.30	11,247.68	-158.80	769.27	215.86	9.31	9.30	-0.91
11,384.00	38.60	171.68	11,285.71	-186.08	773.34	243.37	11.29	11.28	0.81
11,416.00	42.54	172.48	11,310.01	-206.69	776.21	264.13	12.42	12.31	2.50
11,447.00	46.92	173.39	11,332.03	-228.33	778.88	285.92	14.28	14.13	2.94
11,476.00	51.15	172.36	11,351.04	-250.05	781.60	307.78	14.83	14.59	-3.55
11,510.00	55.72	171.55	11,371.29	-277.09	785.43	335.03	13.58	13.44	-2.38
11,537.36	60.30	172.78	11,385.78	-300.07	788.59	358.18	17.18	16.75	4.50

Company:	Centennial Resource Development, LLC	Local Co-ordinate Reference:	Well Pac-Man 36 Fed Com #601H
Project:	Lea County, NM (NAD 83 - UTM Zone 13 - True)	TVD Reference:	3381.2' GE + 26.5' KB @ 3407.70usft
Site:	Pac-Man 36 Fed Com	MD Reference:	3381.2' GE + 26.5' KB @ 3407.70usft
Well:	Pac-Man 36 Fed Com #601H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
S36/1 Crossing									
11,542.00	61.08	172.98	11,388.05	-304.08	789.09	362.22	17.18	16.77	4.26
11,573.00	66.72	174.61	11,401.69	-331.75	792.08	390.03	18.80	18.19	5.26
11,604.00	72.90	176.16	11,412.38	-360.73	794.42	419.11	20.48	19.94	5.00
11,624.00	76.71	176.35	11,417.62	-379.99	795.68	438.41	19.07	19.05	0.95
11,656.00	82.15	176.21	11,423.49	-411.37	797.72	469.85	17.01	17.00	-0.44
11,687.00	84.60	176.07	11,427.07	-442.09	799.79	500.64	7.92	7.90	-0.45
11,718.00	87.42	176.59	11,429.22	-472.95	801.77	531.56	9.25	9.10	1.68
11,781.00	89.31	176.92	11,431.02	-535.82	805.33	594.52	3.05	3.00	0.52
11,793.49	89.17	176.99	11,431.18	-548.29	806.00	607.01	1.25	-1.10	0.60
LP (PM 36 Fed Com 601H)									
11,875.00	88.28	177.48	11,433.00	-629.68	809.92	688.47	1.25	-1.10	0.60
11,969.00	88.87	178.90	11,435.33	-723.61	812.89	782.35	1.64	0.63	1.51
12,063.00	88.25	179.01	11,437.70	-817.56	814.61	876.17	0.67	-0.66	0.12
12,157.00	88.70	179.78	11,440.20	-911.52	815.60	969.94	0.95	0.48	0.82
12,251.00	90.10	179.84	11,441.18	-1,005.51	815.91	1,063.69	1.49	1.49	0.06
12,345.00	88.67	180.31	11,442.19	-1,099.50	815.79	1,157.41	1.60	-1.52	0.50
12,439.00	90.76	181.30	11,442.66	-1,193.49	814.47	1,251.03	2.46	2.22	1.05
12,533.00	88.74	181.79	11,443.07	-1,287.45	811.93	1,344.54	2.21	-2.15	0.52
12,627.00	88.50	182.82	11,445.33	-1,381.34	808.15	1,437.89	1.12	-0.26	1.10
12,722.00	86.45	183.35	11,449.52	-1,476.11	803.05	1,532.01	2.23	-2.16	0.56
12,815.00	84.54	183.31	11,456.82	-1,568.66	797.66	1,623.90	2.05	-2.05	-0.04
12,909.00	82.78	182.91	11,467.20	-1,661.94	792.59	1,716.54	1.92	-1.87	-0.43
13,003.00	85.29	180.28	11,476.97	-1,755.38	789.99	1,809.53	3.86	2.67	-2.80
13,097.00	85.15	179.40	11,484.80	-1,849.05	790.26	1,902.96	0.94	-0.15	-0.94
13,191.00	85.09	177.32	11,492.80	-1,942.67	792.94	1,996.51	2.21	-0.06	-2.21
13,233.00	85.14	177.16	11,496.38	-1,984.47	794.95	2,038.34	0.40	0.12	-0.38
13,327.00	90.35	178.58	11,500.08	-2,078.30	798.44	2,132.17	5.74	5.54	1.51
13,421.00	90.29	181.54	11,499.55	-2,172.28	798.34	2,225.89	3.15	-0.06	3.15
13,515.00	89.80	182.50	11,499.48	-2,266.22	795.03	2,319.32	1.15	-0.52	1.02
13,609.00	89.85	180.73	11,499.76	-2,360.18	792.38	2,412.81	1.88	0.05	-1.88
13,704.00	89.87	178.94	11,500.00	-2,455.18	792.65	2,507.56	1.88	0.02	-1.88
13,798.00	89.82	178.88	11,500.25	-2,549.16	794.44	2,601.42	0.08	-0.05	-0.06
13,892.00	89.72	179.13	11,500.63	-2,643.15	796.07	2,695.26	0.29	-0.11	0.27
13,986.00	89.22	179.13	11,501.50	-2,737.13	797.50	2,789.09	0.53	-0.53	0.00
14,080.00	88.64	177.62	11,503.25	-2,831.07	800.16	2,882.97	1.72	-0.62	-1.61
14,174.00	88.89	179.02	11,505.28	-2,925.01	802.92	2,976.85	1.51	0.27	1.49
14,268.00	88.53	179.42	11,507.40	-3,018.98	804.20	3,070.65	0.57	-0.38	0.43
14,362.00	89.48	179.61	11,509.03	-3,112.96	804.99	3,164.42	1.03	1.01	0.20
14,456.00	88.63	179.23	11,510.58	-3,206.94	805.95	3,258.21	0.99	-0.90	-0.40
14,550.00	88.78	180.41	11,512.70	-3,300.91	806.24	3,351.95	1.27	0.16	1.26
14,644.00	88.42	180.09	11,515.00	-3,394.88	805.83	3,445.62	0.51	-0.38	-0.34
14,738.00	89.06	179.66	11,517.07	-3,488.86	806.04	3,539.35	0.82	0.68	-0.46
14,832.00	88.84	179.10	11,518.79	-3,582.84	807.05	3,633.14	0.64	-0.23	-0.60

Company:	Centennial Resource Development, LLC	Local Co-ordinate Reference:	Well Pac-Man 36 Fed Com #601H
Project:	Lea County, NM (NAD 83 - UTM Zone 13 - True)	TVD Reference:	3381.2' GE + 26.5' KB @ 3407.70usft
Site:	Pac-Man 36 Fed Com	MD Reference:	3381.2' GE + 26.5' KB @ 3407.70usft
Well:	Pac-Man 36 Fed Com #601H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,926.00	88.87	180.20	11,520.67	-3,676.82	807.63	3,726.90	1.17	0.03	1.17
15,020.00	89.06	178.77	11,522.37	-3,770.79	808.47	3,820.68	1.53	0.20	-1.52
15,114.00	88.89	178.58	11,524.05	-3,864.75	810.65	3,914.54	0.27	-0.18	-0.20
15,209.00	90.08	180.52	11,524.90	-3,959.74	811.39	4,009.32	2.40	1.25	2.04
15,303.00	88.73	178.25	11,525.88	-4,053.72	812.40	4,103.11	2.81	-1.44	-2.41
15,397.00	88.94	179.90	11,527.79	-4,147.69	813.92	4,196.93	1.77	0.22	1.76
15,491.00	88.61	178.47	11,529.80	-4,241.65	815.25	4,290.73	1.56	-0.35	-1.52
15,585.00	88.64	178.02	11,532.05	-4,335.58	818.13	4,384.61	0.48	0.03	-0.48
15,680.00	88.94	179.41	11,534.06	-4,430.53	820.26	4,479.46	1.50	0.32	1.46
15,774.00	88.95	178.71	11,535.79	-4,524.50	821.80	4,573.28	0.74	0.01	-0.74
15,868.00	89.23	179.41	11,537.28	-4,618.48	823.34	4,667.11	0.80	0.30	0.74
15,962.00	89.26	179.59	11,538.52	-4,712.47	824.17	4,760.89	0.19	0.03	0.19
16,056.00	89.10	178.23	11,539.87	-4,806.44	825.95	4,854.73	1.46	-0.17	-1.45
16,150.00	89.72	179.02	11,540.84	-4,900.41	828.21	4,948.61	1.07	0.66	0.84
16,244.00	89.59	179.20	11,541.40	-4,994.39	829.67	5,042.44	0.24	-0.14	0.19
16,338.00	89.76	180.25	11,541.93	-5,088.39	830.12	5,136.21	1.13	0.18	1.12
16,432.00	89.61	179.92	11,542.45	-5,182.39	829.98	5,229.93	0.39	-0.16	-0.35
16,526.00	89.76	179.64	11,542.97	-5,276.38	830.34	5,323.69	0.34	0.16	-0.30
16,620.00	89.89	179.74	11,543.26	-5,370.38	830.85	5,417.47	0.17	0.14	0.11
16,714.00	89.85	179.33	11,543.47	-5,464.38	831.61	5,511.26	0.44	-0.04	-0.44
16,808.00	88.89	180.87	11,544.50	-5,558.37	831.45	5,604.97	1.93	-1.02	1.64
16,834.71	89.17	181.56	11,544.95	-5,585.07	830.88	5,631.56	2.78	1.04	2.57
S1/12 Crossing									
16,902.00	89.87	183.29	11,545.52	-5,652.29	828.04	5,698.38	2.78	1.04	2.57
16,996.00	89.68	183.98	11,545.89	-5,746.10	822.08	5,791.48	0.76	-0.20	0.73
17,090.00	90.32	184.19	11,545.89	-5,839.86	815.38	5,884.48	0.72	0.68	0.22
17,184.00	90.24	183.72	11,545.43	-5,933.64	808.90	5,977.51	0.51	-0.09	-0.50
17,277.00	90.91	184.22	11,544.50	-6,026.41	802.46	6,069.54	0.90	0.72	0.54
17,371.00	90.35	182.70	11,543.46	-6,120.23	796.79	6,162.67	1.72	-0.60	-1.62
17,465.00	90.18	182.04	11,543.03	-6,214.15	792.90	6,256.03	0.73	-0.18	-0.70
17,559.00	90.27	181.82	11,542.66	-6,308.09	789.73	6,349.48	0.25	0.10	-0.23
17,654.00	90.50	181.53	11,542.02	-6,403.05	786.96	6,443.96	0.39	0.24	-0.31
17,747.00	89.76	180.92	11,541.81	-6,496.03	784.97	6,536.53	1.03	-0.80	-0.66
17,842.00	90.52	180.07	11,541.58	-6,591.02	784.15	6,631.20	1.20	0.80	-0.89
17,936.00	90.71	179.66	11,540.57	-6,685.02	784.37	6,724.95	0.48	0.20	-0.44
18,030.00	90.39	179.50	11,539.67	-6,779.01	785.06	6,818.73	0.38	-0.34	-0.17
18,124.00	90.35	179.66	11,539.06	-6,873.01	785.75	6,912.51	0.18	-0.04	0.17
18,218.00	90.34	180.24	11,538.49	-6,967.00	785.83	7,006.25	0.62	-0.01	0.62
18,312.00	91.41	179.65	11,537.06	-7,060.99	785.92	7,099.99	1.30	1.14	-0.63
18,406.00	90.13	179.66	11,535.79	-7,154.98	786.49	7,193.75	1.36	-1.36	0.01
18,500.00	90.10	180.06	11,535.61	-7,248.98	786.72	7,287.51	0.43	-0.03	0.43
18,595.00	89.47	180.58	11,535.96	-7,343.98	786.19	7,382.20	0.86	-0.66	0.55
18,689.00	90.78	180.43	11,535.76	-7,437.97	785.36	7,475.87	1.40	1.39	-0.16

Company:	Centennial Resource Development, LLC	Local Co-ordinate Reference:	Well Pac-Man 36 Fed Com #601H
Project:	Lea County, NM (NAD 83 - UTM Zone 13 - True)	TVD Reference:	3381.2' GE + 26.5' KB @ 3407.70usft
Site:	Pac-Man 36 Fed Com	MD Reference:	3381.2' GE + 26.5' KB @ 3407.70usft
Well:	Pac-Man 36 Fed Com #601H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,784.00	90.48	181.45	11,534.71	-7,532.95	783.80	7,570.46	1.12	-0.32	1.07
18,878.00	91.82	178.05	11,532.82	-7,626.91	784.21	7,664.20	3.89	1.43	-3.62
18,971.00	89.80	177.86	11,531.51	-7,719.84	787.53	7,757.11	2.18	-2.17	-0.20
19,066.00	90.85	176.33	11,530.97	-7,814.71	792.34	7,852.08	1.95	1.11	-1.61
19,159.00	90.93	175.92	11,529.53	-7,907.49	798.62	7,945.06	0.45	0.09	-0.44
19,254.00	91.18	176.03	11,527.78	-8,002.24	805.29	8,040.05	0.29	0.26	0.12
19,348.00	90.25	175.88	11,526.60	-8,096.00	811.92	8,134.04	1.00	-0.99	-0.16
19,442.00	90.32	179.78	11,526.14	-8,189.91	815.48	8,227.95	4.15	0.07	4.15
19,536.00	90.22	180.40	11,525.69	-8,283.91	815.33	8,321.68	0.67	-0.11	0.66
19,630.00	89.61	180.30	11,525.83	-8,377.90	814.76	8,415.37	0.66	-0.65	-0.11
19,724.00	90.10	180.97	11,526.07	-8,471.90	813.72	8,509.02	0.88	0.52	0.71
19,818.00	90.27	180.28	11,525.77	-8,565.89	812.69	8,602.68	0.76	0.18	-0.73
19,912.00	90.31	180.63	11,525.29	-8,659.89	811.94	8,696.35	0.37	0.04	0.37
20,007.00	90.22	180.20	11,524.85	-8,754.88	811.26	8,791.03	0.46	-0.09	-0.45
20,101.00	90.34	179.89	11,524.39	-8,848.88	811.18	8,884.76	0.35	0.13	-0.33
20,195.00	90.46	179.69	11,523.74	-8,942.88	811.53	8,978.52	0.25	0.13	-0.21
20,289.00	89.94	179.33	11,523.41	-9,036.87	812.33	9,072.31	0.67	-0.55	-0.38
20,433.00	89.90	182.25	11,523.61	-9,180.85	810.35	9,215.73	2.03	-0.03	2.03
20,526.00	90.17	182.01	11,523.55	-9,273.78	806.89	9,308.15	0.39	0.29	-0.26
20,621.00	90.07	182.37	11,523.35	-9,368.71	803.26	9,402.54	0.39	-0.11	0.38
20,715.00	90.48	181.70	11,522.90	-9,462.65	799.92	9,495.97	0.84	0.44	-0.71
20,809.00	89.75	179.77	11,522.71	-9,556.64	798.72	9,589.60	2.20	-0.78	-2.05
20,903.00	89.68	180.14	11,523.18	-9,650.64	798.79	9,683.35	0.40	-0.07	0.39
20,997.00	89.69	179.94	11,523.70	-9,744.63	798.72	9,777.08	0.21	0.01	-0.21
21,091.00	89.52	179.43	11,524.35	-9,838.63	799.24	9,870.85	0.57	-0.18	-0.54
21,185.00	89.48	179.55	11,525.17	-9,932.62	800.08	9,964.64	0.13	-0.04	0.13
21,279.00	90.27	179.70	11,525.37	-10,026.62	800.69	10,058.42	0.86	0.84	0.16
21,374.00	89.50	179.70	11,525.56	-10,121.62	801.19	10,153.19	0.81	-0.81	0.00
21,468.00	89.96	179.73	11,526.01	-10,215.62	801.66	10,246.96	0.49	0.49	0.03
21,561.00	89.97	179.60	11,526.06	-10,308.61	802.20	10,339.74	0.14	0.01	-0.14
21,656.00	89.48	179.27	11,526.52	-10,403.61	803.14	10,434.54	0.62	-0.52	-0.35
21,750.00	89.30	179.67	11,527.52	-10,497.60	804.01	10,528.33	0.47	-0.19	0.43
21,844.00	89.15	179.16	11,528.79	-10,591.58	804.97	10,622.12	0.57	-0.16	-0.54
21,938.00	89.30	179.51	11,530.06	-10,685.57	806.06	10,715.93	0.41	0.16	0.37
21,984.00	89.22	179.33	11,530.66	-10,731.56	806.52	10,761.83	0.43	-0.17	-0.39
22,013.42	89.22	179.33	11,531.06	-10,760.98	806.87	10,791.18	0.00	0.00	0.00
PBHL (PM 36 Fed Com 601H)									
22,016.00	89.22	179.33	11,531.09	-10,763.56	806.90	10,793.76	0.00	0.00	0.00
BHL: 100' FSL, 2146' FWL S12									

Company:	Centennial Resource Development, LLC	Local Co-ordinate Reference:	Well Pac-Man 36 Fed Com #601H
Project:	Lea County, NM (NAD 83 - UTM Zone 13 - True)	TVD Reference:	3381.2' GE + 26.5' KB @ 3407.70usft
Site:	Pac-Man 36 Fed Com	MD Reference:	3381.2' GE + 26.5' KB @ 3407.70usft
Well:	Pac-Man 36 Fed Com #601H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,007.00	10,936.51	-66.53	752.84	KOP: 236' FSL, 2094' FWL S36
11,537.36	11,385.78	-300.07	788.59	S36/1 Crossing
16,834.71	11,544.95	-5,585.07	830.88	S1/12 Crossing
22,016.00	11,531.09	-10,763.56	806.90	BHL: 100' FSL, 2146' FWL S12

Checked By: _____	Approved By: _____	Date: _____
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MWD Survey Certification

Type text here

Lea County, New Mexico

Client: Centennial Resources Development Inc.

Well Name: Pac-Mac 36 Fed Com 601H

Total Job No: SW-200065

API No: 30-025-46434

Start Depth: 1,865 feet MD

End Depth: 22,016 feet MD

Start Date: February 2nd, 2020

End Date: February 24th, 2020

I, Christopher Meredith, certify that; I am employed by Total Directional Services, LLC. On 02/02/2020 through 02/24/2020, we conducted or supervised the taking of the MWD surveys from a measured depth of 1865 feet to a measured depth of 22,016 feet. The data is true, correct, complete and within the limitations of the tool as set forth by Total Directional Services, LLC. I am authorized and qualified to make this report and this/these survey(s) was/were conducted at the request of Centennial Resources Development Inc. for the well Pac-Mac 36 Fed Com 601H, API No: 30-025-46434 in Lea County, NM. I have reviewed this report and find that it conforms to the principals and procedures as set forth by Total Directional Services, LLC.

Christopher Meredith 02/24/2020