

Received by OCD: 8/4/2022 10:53:47 AM

Page 2 of 13

Well Name: MOZZARELLA FEDERAL COM	Well Location: T22S / R32E / SEC 8 / NENW / 32.410758 / -103.698282	County or Parish/State: LEA / NM
Well Number: 652H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM131588	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002546741	Well Status: Approved Application for Permit to Drill	Operator: CENTENNIAL RESOURCE PRODUCTION LLC

Conditions of Approval

Additional
MOZZARELLA_FED_OCM_652H_COA_20220801134346.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

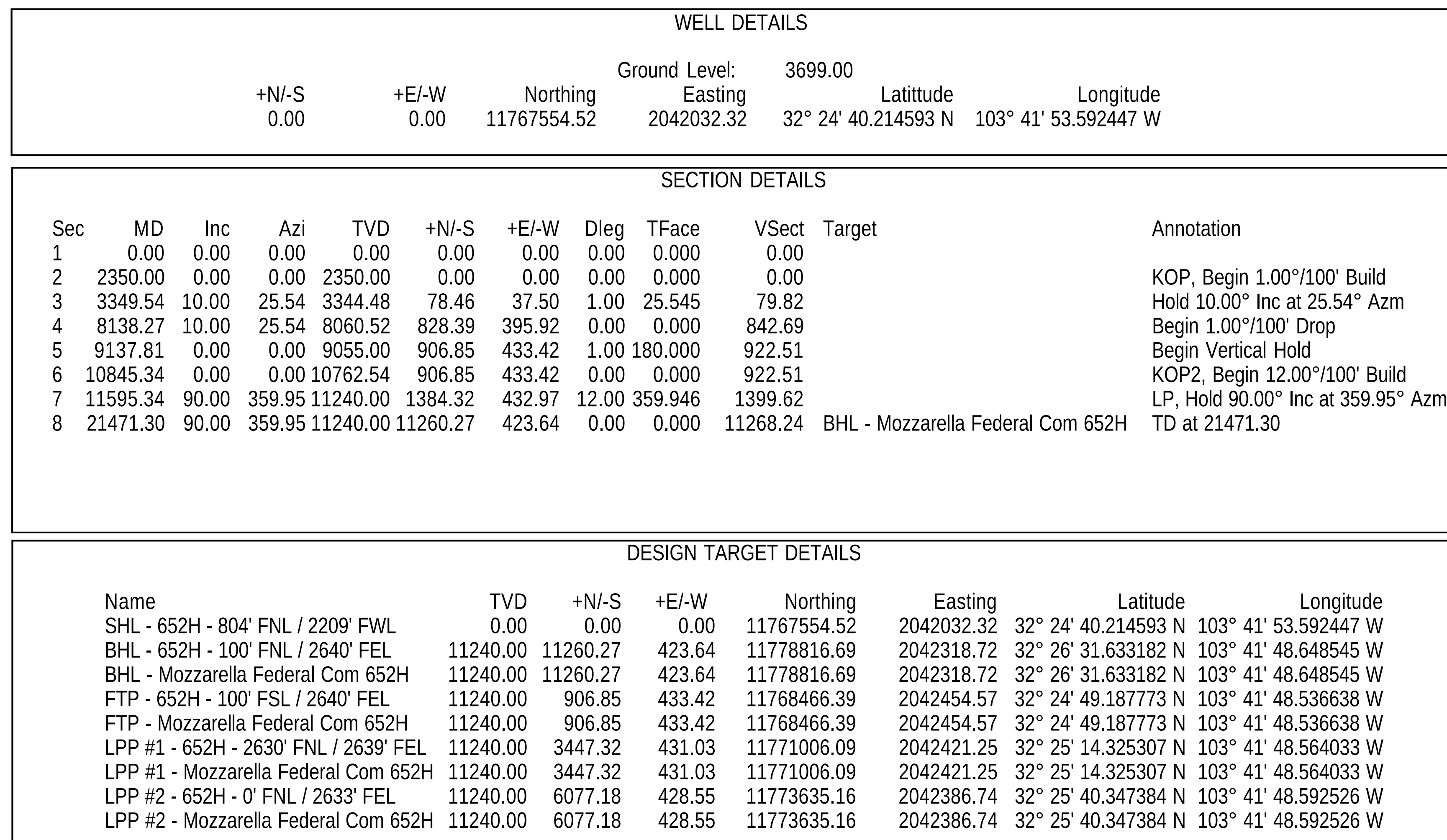
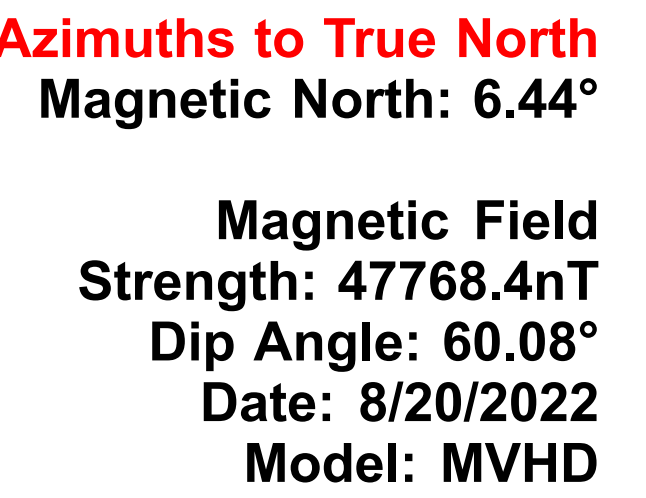
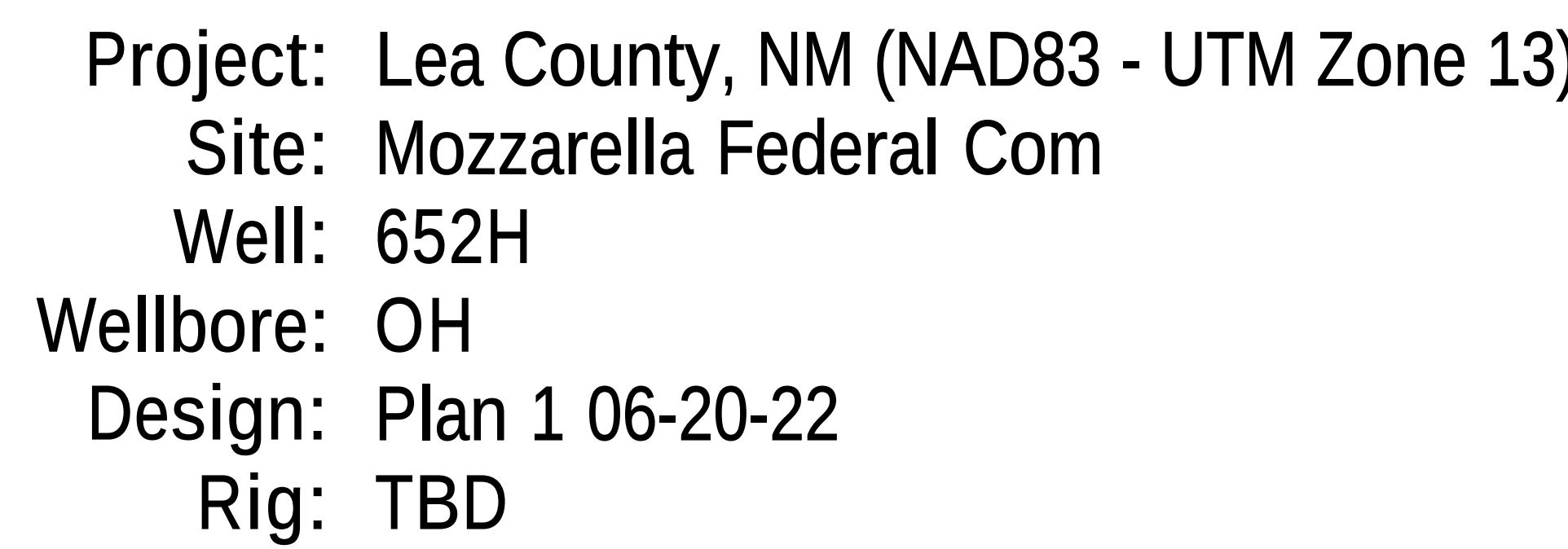
Operator Electronic Signature: MEGHAN TWELE	Signed on: JUL 07, 2022 02:18 PM
Name: CENTENNIAL RESOURCE PRODUCTION LLC	
Title: Sr Regulatory Analyst	
Street Address: 1001 17TH STREET SUITE 1800	
City: DENVER	State: CO
Phone: (720) 499-1531	
Email address: MEGHAN.TWELE@CDEVINC.COM	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CODY LAYTON	BLM POC Title: Assistant Field Manager Lands & Minerals
BLM POC Phone: 5752345959	BLM POC Email Address: clayton@blm.gov
Disposition: Approved	Disposition Date: 08/04/2022
Signature: Cody R. Layton	



Map System: Universal Transverse Mercator (US Survey Feet)
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone Name: Zone 13N (108 W to 102 W)

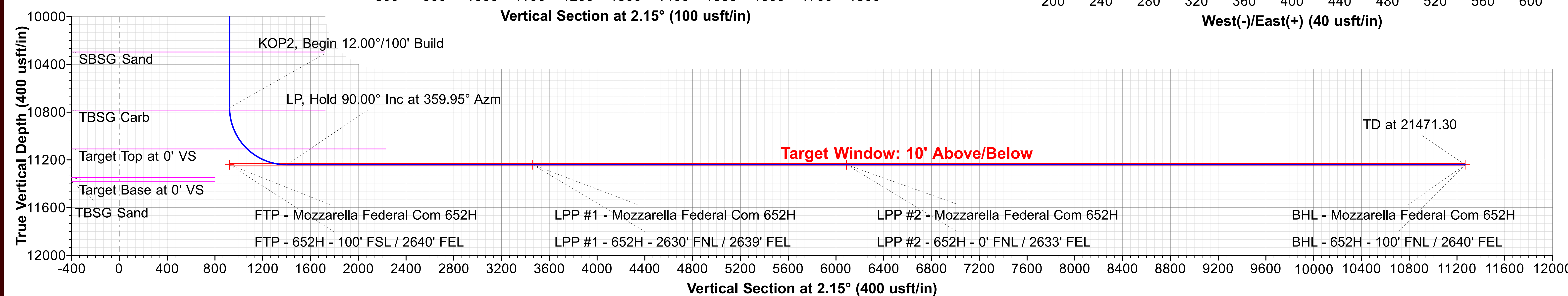
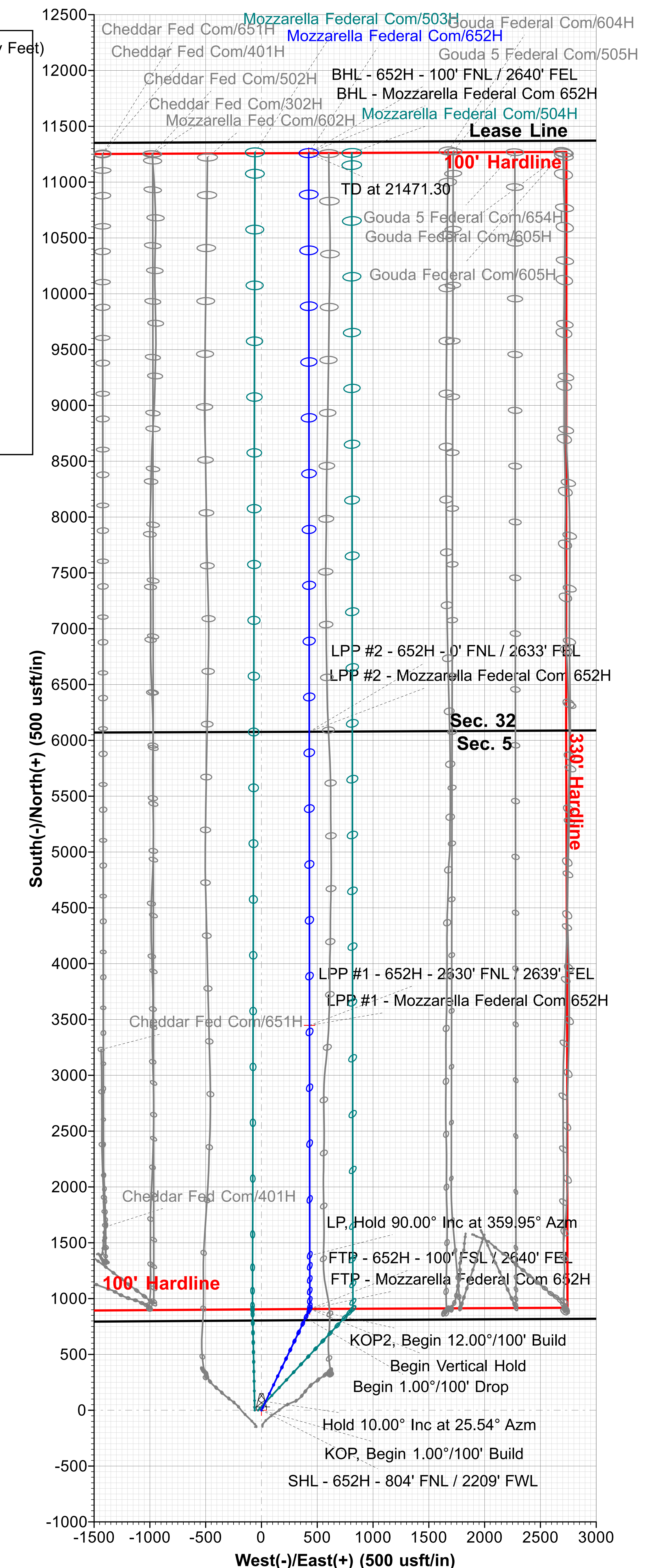
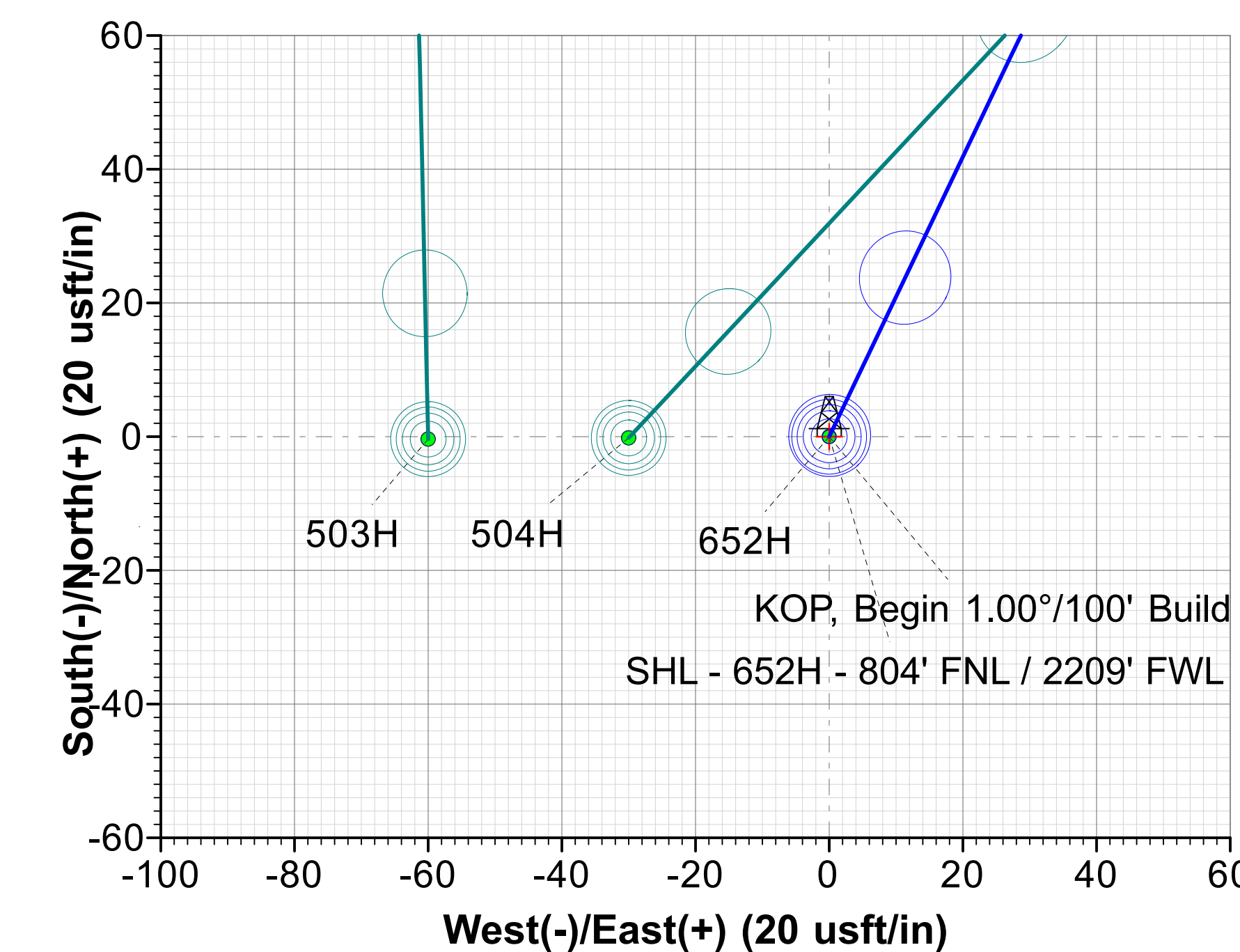
Local Origin: Well 652H, True North

Latitude: 32° 24' 40.214593 N
Longitude: 103° 41' 53.592447 W

Grid East: 2042032.32
Grid North: 11767554.52
Scale Factor: 1.000

Geomagnetic Model: MVHD
Sample Date: 20-Aug-22
Magnetic Declination: 6.445°
Dip Angle from Horizontal: 60.078°
Magnetic Field Strength: 47768.35146258nT

To convert a Magnetic Direction to a Grid Direction, Add 5.747°
 To convert a Magnetic Direction to a True Direction, Add 6.445° East
 To convert a True Direction to a Grid Direction, Subtract 0.698°





Centennial Resources Development, Inc.

**Lea County, NM (NAD83 - UTM Zone 13)
Mozzarella Federal Com
652H**

OH

Plan: Plan 1 06-20-22

Standard Planning Report

20 June, 2022





Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 652H
Company:	Centennial Resources Development, Inc.	TVD Reference:	RKB @ 3725.00usft (TBD)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	MD Reference:	RKB @ 3725.00usft (TBD)
Site:	Mozzarella Federal Com	North Reference:	True
Well:	652H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 06-20-22		

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	Mozzarella Federal Com		
Site Position:		Northing:	11,767,553.44 usft
From:	Map	Easting:	2,041,972.35 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 24' 40.211134 N
		Longitude:	103° 41' 54.292228 W

Well	652H		
Well Position	+N/-S	0.35 usft	Northing: 11,767,554.52 usft
	+E/-W	59.99 usft	Easting: 2,042,032.32 usft
Position Uncertainty	1.00 usft	Wellhead Elevation:	Latitude: 32° 24' 40.214594 N
			Longitude: 103° 41' 53.592447 W
			Ground Level: 3,699.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	MVHD	8/20/2022	6.445
			Dip Angle (°) 60.078
			Field Strength (nT) 47,768.35146258

Design	Plan 1 06-20-22		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°) 2.15

Plan Survey Tool Program	Date	6/20/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	21,471.30	Plan 1 06-20-22 (OH)	MWD+IFR1+MS
				OWSG MWD + IFR1 + Mult

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,350.00	0.00	0.00	2,350.00	0.00	0.00	0.00	0.00	0.00	0.000	
3,349.54	10.00	25.54	3,344.48	78.46	37.50	1.00	1.00	0.00	25.545	
8,138.27	10.00	25.54	8,060.52	828.39	395.92	0.00	0.00	0.00	0.000	
9,137.81	0.00	0.00	9,055.00	906.85	433.42	1.00	-1.00	0.00	180.000	
10,845.34	0.00	0.00	10,762.54	906.85	433.42	0.00	0.00	0.00	0.000	
11,595.34	90.00	359.95	11,240.00	1,384.32	432.97	12.00	12.00	0.00	359.946	
21,471.30	90.00	359.95	11,240.00	11,260.27	423.64	0.00	0.00	0.00	0.000	BHL - Mozzarella Fi



Planning Report



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Company:	Centennial Resources Development, Inc.	TVD Reference:	RKB @ 3725.00usft (TBD)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	MD Reference:	RKB @ 3725.00usft (TBD)
Site:	Mozzarella Federal Com	North Reference:	True
Well:	652H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 06-20-22		

Planned 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
687.00	0.00	0.00	687.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,044.00	0.00	0.00	1,044.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
2,350.00	0.00	0.00	2,350.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 1.00°/100' Build									
2,400.00	0.50	25.54	2,400.00	0.20	0.09	0.20	1.00	1.00	0.00
2,500.00	1.50	25.54	2,499.98	1.77	0.85	1.80	1.00	1.00	0.00
2,600.00	2.50	25.54	2,599.92	4.92	2.35	5.01	1.00	1.00	0.00
2,700.00	3.50	25.54	2,699.78	9.64	4.61	9.81	1.00	1.00	0.00
2,800.00	4.50	25.54	2,799.54	15.94	7.62	16.21	1.00	1.00	0.00
2,900.00	5.50	25.54	2,899.16	23.80	11.37	24.21	1.00	1.00	0.00
3,000.00	6.50	25.54	2,998.61	33.23	15.88	33.80	1.00	1.00	0.00
3,100.00	7.50	25.54	3,097.86	44.23	21.14	44.99	1.00	1.00	0.00
3,200.00	8.50	25.54	3,196.89	56.78	27.14	57.76	1.00	1.00	0.00
3,300.00	9.50	25.54	3,295.65	70.90	33.88	72.12	1.00	1.00	0.00
3,349.54	10.00	25.54	3,344.48	78.46	37.50	79.82	1.00	1.00	0.00
Hold 10.00° Inc at 25.54° Azm									
3,400.00	10.00	25.54	3,394.17	86.37	41.28	87.86	0.00	0.00	0.00
3,500.00	10.00	25.54	3,492.65	102.03	48.76	103.79	0.00	0.00	0.00
3,595.80	10.00	25.54	3,587.00	117.03	55.93	119.05	0.00	0.00	0.00
BX BLM (Fletcher Anhydrite)									
3,600.00	10.00	25.54	3,591.14	117.69	56.25	119.72	0.00	0.00	0.00
3,700.00	10.00	25.54	3,689.62	133.35	63.73	135.65	0.00	0.00	0.00
3,800.00	10.00	25.54	3,788.10	149.01	71.22	151.58	0.00	0.00	0.00
3,900.00	10.00	25.54	3,886.58	164.67	78.70	167.51	0.00	0.00	0.00
4,000.00	10.00	25.54	3,985.06	180.33	86.19	183.44	0.00	0.00	0.00
4,100.00	10.00	25.54	4,083.55	195.99	93.67	199.37	0.00	0.00	0.00
4,200.00	10.00	25.54	4,182.03	211.65	101.15	215.30	0.00	0.00	0.00
4,300.00	10.00	25.54	4,280.51	227.31	108.64	231.23	0.00	0.00	0.00
4,400.00	10.00	25.54	4,378.99	242.97	116.12	247.16	0.00	0.00	0.00
4,500.00	10.00	25.54	4,477.48	258.63	123.61	263.09	0.00	0.00	0.00
4,600.00	10.00	25.54	4,575.96	274.29	131.09	279.02	0.00	0.00	0.00
4,677.21	10.00	25.54	4,652.00	286.38	136.87	291.32	0.00	0.00	0.00
Lamar									
4,700.00	10.00	25.54	4,674.44	289.95	138.58	294.95	0.00	0.00	0.00
4,775.71	10.00	25.54	4,749.00	301.81	144.24	307.02	0.00	0.00	0.00
Bell Canyon									
4,800.00	10.00	25.54	4,772.92	305.61	146.06	310.88	0.00	0.00	0.00
4,900.00	10.00	25.54	4,871.40	321.27	153.55	326.82	0.00	0.00	0.00
5,000.00	10.00	25.54	4,969.89	336.93	161.03	342.75	0.00	0.00	0.00
5,100.00	10.00	25.54	5,068.37	352.59	168.52	358.68	0.00	0.00	0.00
5,200.00	10.00	25.54	5,166.85	368.25	176.00	374.61	0.00	0.00	0.00
5,300.00	10.00	25.54	5,265.33	383.91	183.48	390.54	0.00	0.00	0.00
5,400.00	10.00	25.54	5,363.82	399.57	190.97	406.47	0.00	0.00	0.00
5,500.00	10.00	25.54	5,462.30	415.23	198.45	422.40	0.00	0.00	0.00
5,600.00	10.00	25.54	5,560.78	430.89	205.94	438.33	0.00	0.00	0.00
5,624.59	10.00	25.54	5,585.00	434.74	207.78	442.25	0.00	0.00	0.00
Cherry Canyon									
5,700.00	10.00	25.54	5,659.26	446.55	213.42	454.26	0.00	0.00	0.00
5,800.00	10.00	25.54	5,757.74	462.21	220.91	470.19	0.00	0.00	0.00
5,813.46	10.00	25.54	5,771.00	464.32	221.92	472.33	0.00	0.00	0.00



Planning Report



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Company:	Centennial Resources Development, Inc.	TVD Reference:	RKB @ 3725.00usft (TBD)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	MD Reference:	RKB @ 3725.00usft (TBD)
Site:	Mozzarella Federal Com	North Reference:	True
Well:	652H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 06-20-22		

Planned 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)
Manzanita Lime									
5,900.00	10.00	25.54	5,856.23	477.87	228.39	486.12	0.00	0.00	0.00
6,000.00	10.00	25.54	5,954.71	493.53	235.88	502.05	0.00	0.00	0.00
6,100.00	10.00	25.54	6,053.19	509.19	243.36	517.98	0.00	0.00	0.00
6,200.00	10.00	25.54	6,151.67	524.85	250.85	533.91	0.00	0.00	0.00
6,300.00	10.00	25.54	6,250.15	540.51	258.33	549.84	0.00	0.00	0.00
6,400.00	10.00	25.54	6,348.64	556.17	265.82	565.77	0.00	0.00	0.00
6,500.00	10.00	25.54	6,447.12	571.83	273.30	581.70	0.00	0.00	0.00
6,600.00	10.00	25.54	6,545.60	587.49	280.78	597.63	0.00	0.00	0.00
6,700.00	10.00	25.54	6,644.08	603.15	288.27	613.57	0.00	0.00	0.00
6,800.00	10.00	25.54	6,742.57	618.81	295.75	629.50	0.00	0.00	0.00
6,900.00	10.00	25.54	6,841.05	634.47	303.24	645.43	0.00	0.00	0.00
6,957.83	10.00	25.54	6,898.00	643.53	307.57	654.64	0.00	0.00	0.00
Brushy Canyon									
7,000.00	10.00	25.54	6,939.53	650.13	310.72	661.36	0.00	0.00	0.00
7,100.00	10.00	25.54	7,038.01	665.79	318.21	677.29	0.00	0.00	0.00
7,200.00	10.00	25.54	7,136.49	681.46	325.69	693.22	0.00	0.00	0.00
7,300.00	10.00	25.54	7,234.98	697.12	333.18	709.15	0.00	0.00	0.00
7,400.00	10.00	25.54	7,333.46	712.78	340.66	725.08	0.00	0.00	0.00
7,500.00	10.00	25.54	7,431.94	728.44	348.15	741.01	0.00	0.00	0.00
7,600.00	10.00	25.54	7,530.42	744.10	355.63	756.94	0.00	0.00	0.00
7,700.00	10.00	25.54	7,628.91	759.76	363.12	772.87	0.00	0.00	0.00
7,800.00	10.00	25.54	7,727.39	775.42	370.60	788.80	0.00	0.00	0.00
7,900.00	10.00	25.54	7,825.87	791.08	378.08	804.73	0.00	0.00	0.00
8,000.00	10.00	25.54	7,924.35	806.74	385.57	820.66	0.00	0.00	0.00
8,100.00	10.00	25.54	8,022.83	822.40	393.05	836.59	0.00	0.00	0.00
8,138.27	10.00	25.54	8,060.52	828.39	395.92	842.69	0.00	0.00	0.00
Begin 1.00°/100' Drop									
8,200.00	9.38	25.54	8,121.37	837.76	400.40	852.22	1.00	-1.00	0.00
8,300.00	8.38	25.54	8,220.17	851.69	407.05	866.39	1.00	-1.00	0.00
8,400.00	7.38	25.54	8,319.23	864.05	412.96	878.97	1.00	-1.00	0.00
8,500.00	6.38	25.54	8,418.51	874.86	418.13	889.96	1.00	-1.00	0.00
8,600.00	5.38	25.54	8,517.98	884.10	422.54	899.36	1.00	-1.00	0.00
8,700.00	4.38	25.54	8,617.62	891.77	426.21	907.16	1.00	-1.00	0.00
8,730.47	4.07	25.54	8,648.00	893.80	427.18	909.22	1.00	-1.00	0.00
Bone Spring Lime									
8,800.00	3.38	25.54	8,717.39	897.87	429.13	913.37	1.00	-1.00	0.00
8,884.73	2.53	25.54	8,802.00	901.81	431.01	917.38	1.00	-1.00	0.00
Avalon									
8,900.00	2.38	25.54	8,817.26	902.40	431.29	917.98	1.00	-1.00	0.00
9,000.00	1.38	25.54	8,917.20	905.36	432.70	920.99	1.00	-1.00	0.00
9,100.00	0.38	25.54	9,017.19	906.74	433.36	922.39	1.00	-1.00	0.00
9,137.81	0.00	0.00	9,055.00	906.85	433.42	922.51	1.00	-1.00	0.00
Begin Vertical Hold									
9,801.81	0.00	0.00	9,719.00	906.85	433.42	922.51	0.00	0.00	0.00
FBSG Sand									
10,053.81	0.00	0.00	9,971.00	906.85	433.42	922.51	0.00	0.00	0.00
SBSG Shale									
10,378.81	0.00	0.00	10,296.00	906.85	433.42	922.51	0.00	0.00	0.00
SBSG Sand									
10,845.34	0.00	0.00	10,762.54	906.85	433.42	922.51	0.00	0.00	0.00
KOP2, Begin 12.00°/100' Build									



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Project:	Lea County, NM (NAD83 - UTM Zone 13)	MD Reference:	RKB @ 3725.00usft (TBD)
Site:	Mozzarella Federal Com	North Reference:	True
Well:	652H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 06-20-22		

Planned 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)
10,865.82	2.46	359.95	10,783.00	907.29	433.42	922.95	12.00	12.00	0.00
TBSG Carb									
10,900.00	6.56	359.95	10,817.07	909.98	433.42	925.63	12.00	12.00	0.00
11,000.00	18.56	359.95	10,914.50	931.68	433.40	947.32	12.00	12.00	0.00
11,100.00	30.56	359.95	11,005.29	973.17	433.36	988.77	12.00	12.00	0.00
11,200.00	42.56	359.95	11,085.47	1,032.63	433.30	1,048.19	12.00	12.00	0.00
11,231.57	46.35	359.95	11,108.00	1,054.73	433.28	1,070.28	12.00	12.00	0.00
Target Top at 0' VS									
11,300.00	54.56	359.95	11,151.53	1,107.45	433.23	1,122.96	12.00	12.00	0.00
11,400.00	66.56	359.95	11,200.59	1,194.38	433.15	1,209.82	12.00	12.00	0.00
11,500.00	78.56	359.95	11,230.51	1,289.61	433.06	1,304.98	12.00	12.00	0.00
11,595.34	90.00	359.95	11,240.00	1,384.32	432.97	1,399.62	12.00	12.00	0.00
LP, Hold 90.00° Inc at 359.95° Azm									
11,600.00	90.00	359.95	11,240.00	1,388.97	432.96	1,404.27	0.00	0.00	0.00
11,700.00	90.00	359.95	11,240.00	1,488.97	432.87	1,504.20	0.00	0.00	0.00
11,800.00	90.00	359.95	11,240.00	1,588.97	432.77	1,604.12	0.00	0.00	0.00
11,900.00	90.00	359.95	11,240.00	1,688.97	432.68	1,704.05	0.00	0.00	0.00
12,000.00	90.00	359.95	11,240.00	1,788.97	432.59	1,803.97	0.00	0.00	0.00
12,100.00	90.00	359.95	11,240.00	1,888.97	432.49	1,903.90	0.00	0.00	0.00
12,200.00	90.00	359.95	11,240.00	1,988.97	432.40	2,003.82	0.00	0.00	0.00
12,300.00	90.00	359.95	11,240.00	2,088.97	432.30	2,103.75	0.00	0.00	0.00
12,400.00	90.00	359.95	11,240.00	2,188.97	432.21	2,203.68	0.00	0.00	0.00
12,500.00	90.00	359.95	11,240.00	2,288.97	432.11	2,303.60	0.00	0.00	0.00
12,600.00	90.00	359.95	11,240.00	2,388.97	432.02	2,403.53	0.00	0.00	0.00
12,700.00	90.00	359.95	11,240.00	2,488.97	431.92	2,503.45	0.00	0.00	0.00
12,800.00	90.00	359.95	11,240.00	2,588.97	431.83	2,603.38	0.00	0.00	0.00
12,900.00	90.00	359.95	11,240.00	2,688.97	431.74	2,703.30	0.00	0.00	0.00
13,000.00	90.00	359.95	11,240.00	2,788.97	431.64	2,803.23	0.00	0.00	0.00
13,100.00	90.00	359.95	11,240.00	2,888.97	431.55	2,903.16	0.00	0.00	0.00
13,200.00	90.00	359.95	11,240.00	2,988.97	431.45	3,003.08	0.00	0.00	0.00
13,300.00	90.00	359.95	11,240.00	3,088.97	431.36	3,103.01	0.00	0.00	0.00
13,400.00	90.00	359.95	11,240.00	3,188.97	431.26	3,202.93	0.00	0.00	0.00
13,500.00	90.00	359.95	11,240.00	3,288.97	431.17	3,302.86	0.00	0.00	0.00
13,600.00	90.00	359.95	11,240.00	3,388.97	431.08	3,402.78	0.00	0.00	0.00
13,700.00	90.00	359.95	11,240.00	3,488.97	430.98	3,502.71	0.00	0.00	0.00
13,800.00	90.00	359.95	11,240.00	3,588.97	430.89	3,602.64	0.00	0.00	0.00
13,900.00	90.00	359.95	11,240.00	3,688.97	430.79	3,702.56	0.00	0.00	0.00
14,000.00	90.00	359.95	11,240.00	3,788.97	430.70	3,802.49	0.00	0.00	0.00
14,100.00	90.00	359.95	11,240.00	3,888.97	430.60	3,902.41	0.00	0.00	0.00
14,200.00	90.00	359.95	11,240.00	3,988.97	430.51	4,002.34	0.00	0.00	0.00
14,300.00	90.00	359.95	11,240.00	4,088.97	430.41	4,102.26	0.00	0.00	0.00
14,400.00	90.00	359.95	11,240.00	4,188.97	430.32	4,202.19	0.00	0.00	0.00
14,500.00	90.00	359.95	11,240.00	4,288.97	430.23	4,302.12	0.00	0.00	0.00
14,600.00	90.00	359.95	11,240.00	4,388.97	430.13	4,402.04	0.00	0.00	0.00
14,700.00	90.00	359.95	11,240.00	4,488.97	430.04	4,501.97	0.00	0.00	0.00
14,800.00	90.00	359.95	11,240.00	4,588.97	429.94	4,601.89	0.00	0.00	0.00
14,900.00	90.00	359.95	11,240.00	4,688.97	429.85	4,701.82	0.00	0.00	0.00
15,000.00	90.00	359.95	11,240.00	4,788.97	429.75	4,801.74	0.00	0.00	0.00
15,100.00	90.00	359.95	11,240.00	4,888.97	429.66	4,901.67	0.00	0.00	0.00
15,200.00	90.00	359.95	11,240.00	4,988.97	429.56	5,001.60	0.00	0.00	0.00
15,300.00	90.00	359.95	11,240.00	5,088.97	429.47	5,101.52	0.00	0.00	0.00
15,400.00	90.00	359.95	11,240.00	5,188.97	429.38	5,201.45	0.00	0.00	0.00
15,500.00	90.00	359.95	11,240.00	5,288.97	429.28	5,301.37	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 652H
Company:	Centennial Resources Development, Inc.	TVD Reference:	RKB @ 3725.00usft (TBD)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	MD Reference:	RKB @ 3725.00usft (TBD)
Site:	Mozzarella Federal Com	North Reference:	True
Well:	652H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 06-20-22		

Planned 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)
15,600.00	90.00	359.95	11,240.00	5,388.97	429.19	5,401.30	0.00	0.00	0.00
15,700.00	90.00	359.95	11,240.00	5,488.97	429.09	5,501.22	0.00	0.00	0.00
15,800.00	90.00	359.95	11,240.00	5,588.97	429.00	5,601.15	0.00	0.00	0.00
15,900.00	90.00	359.95	11,240.00	5,688.97	428.90	5,701.08	0.00	0.00	0.00
16,000.00	90.00	359.95	11,240.00	5,788.97	428.81	5,801.00	0.00	0.00	0.00
16,100.00	90.00	359.95	11,240.00	5,888.97	428.72	5,900.93	0.00	0.00	0.00
16,200.00	90.00	359.95	11,240.00	5,988.97	428.62	6,000.85	0.00	0.00	0.00
16,300.00	90.00	359.95	11,240.00	6,088.97	428.53	6,100.78	0.00	0.00	0.00
16,400.00	90.00	359.95	11,240.00	6,188.97	428.43	6,200.70	0.00	0.00	0.00
16,500.00	90.00	359.95	11,240.00	6,288.97	428.34	6,300.63	0.00	0.00	0.00
16,600.00	90.00	359.95	11,240.00	6,388.97	428.24	6,400.56	0.00	0.00	0.00
16,700.00	90.00	359.95	11,240.00	6,488.97	428.15	6,500.48	0.00	0.00	0.00
16,800.00	90.00	359.95	11,240.00	6,588.97	428.05	6,600.41	0.00	0.00	0.00
16,900.00	90.00	359.95	11,240.00	6,688.97	427.96	6,700.33	0.00	0.00	0.00
17,000.00	90.00	359.95	11,240.00	6,788.97	427.87	6,800.26	0.00	0.00	0.00
17,100.00	90.00	359.95	11,240.00	6,888.97	427.77	6,900.18	0.00	0.00	0.00
17,200.00	90.00	359.95	11,240.00	6,988.97	427.68	7,000.11	0.00	0.00	0.00
17,300.00	90.00	359.95	11,240.00	7,088.97	427.58	7,100.04	0.00	0.00	0.00
17,400.00	90.00	359.95	11,240.00	7,188.97	427.49	7,199.96	0.00	0.00	0.00
17,500.00	90.00	359.95	11,240.00	7,288.97	427.39	7,299.89	0.00	0.00	0.00
17,600.00	90.00	359.95	11,240.00	7,388.97	427.30	7,399.81	0.00	0.00	0.00
17,700.00	90.00	359.95	11,240.00	7,488.97	427.20	7,499.74	0.00	0.00	0.00
17,800.00	90.00	359.95	11,240.00	7,588.97	427.11	7,599.66	0.00	0.00	0.00
17,900.00	90.00	359.95	11,240.00	7,688.97	427.02	7,699.59	0.00	0.00	0.00
18,000.00	90.00	359.95	11,240.00	7,788.97	426.92	7,799.52	0.00	0.00	0.00
18,100.00	90.00	359.95	11,240.00	7,888.97	426.83	7,899.44	0.00	0.00	0.00
18,200.00	90.00	359.95	11,240.00	7,988.97	426.73	7,999.37	0.00	0.00	0.00
18,300.00	90.00	359.95	11,240.00	8,088.97	426.64	8,099.29	0.00	0.00	0.00
18,400.00	90.00	359.95	11,240.00	8,188.97	426.54	8,199.22	0.00	0.00	0.00
18,500.00	90.00	359.95	11,240.00	8,288.97	426.45	8,299.14	0.00	0.00	0.00
18,600.00	90.00	359.95	11,240.00	8,388.97	426.35	8,399.07	0.00	0.00	0.00
18,700.00	90.00	359.95	11,240.00	8,488.97	426.26	8,499.00	0.00	0.00	0.00
18,800.00	90.00	359.95	11,240.00	8,588.97	426.17	8,598.92	0.00	0.00	0.00
18,900.00	90.00	359.95	11,240.00	8,688.97	426.07	8,698.85	0.00	0.00	0.00
19,000.00	90.00	359.95	11,240.00	8,788.97	425.98	8,798.77	0.00	0.00	0.00
19,100.00	90.00	359.95	11,240.00	8,888.97	425.88	8,898.70	0.00	0.00	0.00
19,200.00	90.00	359.95	11,240.00	8,988.97	425.79	8,998.62	0.00	0.00	0.00
19,300.00	90.00	359.95	11,240.00	9,088.97	425.69	9,098.55	0.00	0.00	0.00
19,400.00	90.00	359.95	11,240.00	9,188.97	425.60	9,198.48	0.00	0.00	0.00
19,500.00	90.00	359.95	11,240.00	9,288.97	425.51	9,298.40	0.00	0.00	0.00
19,600.00	90.00	359.95	11,240.00	9,388.97	425.41	9,398.33	0.00	0.00	0.00
19,700.00	90.00	359.95	11,240.00	9,488.97	425.32	9,498.25	0.00	0.00	0.00
19,800.00	90.00	359.95	11,240.00	9,588.97	425.22	9,598.18	0.00	0.00	0.00
19,900.00	90.00	359.95	11,240.00	9,688.97	425.13	9,698.10	0.00	0.00	0.00
20,000.00	90.00	359.95	11,240.00	9,788.97	425.03	9,798.03	0.00	0.00	0.00
20,100.00	90.00	359.95	11,240.00	9,888.97	424.94	9,897.96	0.00	0.00	0.00
20,200.00	90.00	359.95	11,240.00	9,988.97	424.84	9,997.88	0.00	0.00	0.00
20,300.00	90.00	359.95	11,240.00	10,088.97	424.75	10,097.81	0.00	0.00	0.00
20,400.00	90.00	359.95	11,240.00	10,188.97	424.66	10,197.73	0.00	0.00	0.00
20,500.00	90.00	359.95	11,240.00	10,288.97	424.56	10,297.66	0.00	0.00	0.00
20,600.00	90.00	359.95	11,240.00	10,388.97	424.47	10,397.58	0.00	0.00	0.00
20,700.00	90.00	359.95	11,240.00	10,488.97	424.37	10,497.51	0.00	0.00	0.00
20,800.00	90.00	359.95	11,240.00	10,588.97	424.28	10,597.44	0.00	0.00	0.00
20,900.00	90.00	359.95	11,240.00	10,688.97	424.18	10,697.36	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 652H
Company:	Centennial Resources Development, Inc.	TVD Reference:	RKB @ 3725.00usft (TBD)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	MD Reference:	RKB @ 3725.00usft (TBD)
Site:	Mozzarella Federal Com	North Reference:	True
Well:	652H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 06-20-22		

Planned 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)	
21,000.00	90.00	359.95	11,240.00	10,788.97	424.09	10,797.29	0.00	0.00	0.00	
21,100.00	90.00	359.95	11,240.00	10,888.97	423.99	10,897.21	0.00	0.00	0.00	
21,200.00	90.00	359.95	11,240.00	10,988.97	423.90	10,997.14	0.00	0.00	0.00	
21,300.00	90.00	359.95	11,240.00	11,088.97	423.81	11,097.06	0.00	0.00	0.00	
21,400.00	90.00	359.95	11,240.00	11,188.97	423.71	11,196.99	0.00	0.00	0.00	
21,471.30	90.00	359.95	11,240.00	11,260.27	423.64	11,268.24	0.00	0.00	0.00	
TD at 21471.30										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SHL - 652H - 804' FNI - hit/miss target center - Shape - Point	0.00	0.00	0.00	0.00	0.00	11,767,554.52	2,042,032.32	2° 24' 40.214594 N	3° 41' 53.592447 W	
LPP #1 - 652H - 2630 - plan misses target center by 0.01usft at 13658.34usft MD (11240.00 TVD, 3447.32 N, 431.02 E) - Point	0.00	0.00	11,240.00	3,447.32	431.03	11,771,006.09	2,042,421.25	2° 25' 14.325307 N	3° 41' 48.564033 W	
BHL - Mozzarella Fed - plan hits target center - Rectangle (sides W0.00 H10,353.42 D20.00)	0.00	2.15	11,240.00	11,260.27	423.64	11,778,816.69	2,042,318.72	2° 26' 31.633182 N	3° 41' 48.648545 W	
LPP #2 - Mozzarella F - plan misses target center by 0.01usft at 16288.21usft MD (11240.00 TVD, 6077.18 N, 428.54 E) - Point	0.00	0.00	11,240.00	6,077.18	428.55	11,773,635.16	2,042,386.74	2° 25' 40.347384 N	3° 41' 48.592527 W	
FTP - 652H - 100' FSI - plan misses target center by 197.79usft at 11222.23usft MD (11101.49 TVD, 1048.04 N, 433.29 E) - Point	0.00	0.00	11,240.00	906.85	433.42	11,768,466.39	2,042,454.57	2° 24' 49.187773 N	3° 41' 48.536639 W	
LPP #1 - Mozzarella F - plan misses target center by 0.01usft at 13658.34usft MD (11240.00 TVD, 3447.32 N, 431.02 E) - Point	0.00	0.00	11,240.00	3,447.32	431.03	11,771,006.09	2,042,421.25	2° 25' 14.325307 N	3° 41' 48.564033 W	
FTP - Mozzarella Fed - plan misses target center by 197.79usft at 11222.23usft MD (11101.49 TVD, 1048.04 N, 433.29 E) - Point	0.00	0.00	11,240.00	906.85	433.42	11,768,466.39	2,042,454.57	2° 24' 49.187773 N	3° 41' 48.536639 W	
BHL - 652H - 100' FNI - plan hits target center - Point	0.00	0.00	11,240.00	11,260.27	423.64	11,778,816.69	2,042,318.72	2° 26' 31.633182 N	3° 41' 48.648545 W	
LPP #2 - 652H - 0' FN - plan misses target center by 0.01usft at 16288.21usft MD (11240.00 TVD, 6077.18 N, 428.54 E) - Point	0.00	0.00	11,240.00	6,077.18	428.55	11,773,635.16	2,042,386.74	2° 25' 40.347384 N	3° 41' 48.592527 W	



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 652H
Company:	Centennial Resources Development, Inc.	TVD Reference:	RKB @ 3725.00usft (TBD)
Project:	Lea County, NM (NAD83 - UTM Zone 13)	MD Reference:	RKB @ 3725.00usft (TBD)
Site:	Mozzarella Federal Com	North Reference:	True
Well:	652H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 06-20-22		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
687.00	687.00	Rustler			
1,044.00	1,044.00	Salado			
3,595.80	3,587.00	BX BLM (Fletcher Anhydrite)			
4,677.21	4,652.00	Lamar			
4,775.71	4,749.00	Bell Canyon			
5,624.59	5,585.00	Cherry Canyon			
5,813.46	5,771.00	Manzanita Lime			
6,957.83	6,898.00	Brushy Canyon			
8,730.47	8,648.00	Bone Spring Lime			
8,884.73	8,802.00	Avalon			
9,801.81	9,719.00	FBSG Sand			
10,053.81	9,971.00	SBSG Shale			
10,378.81	10,296.00	SBSG Sand			
10,865.82	10,783.00	TBSG Carb			
11,231.57	11,108.00	Target Top at 0' VS			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,350.00	2,350.00	0.00	0.00	KOP, Begin 1.00°/100' Build
3,349.54	3,344.48	78.46	37.50	Hold 10.00° Inc at 25.54° Azm
8,138.27	8,060.52	828.39	395.92	Begin 1.00°/100' Drop
9,137.81	9,055.00	906.85	433.42	Begin Vertical Hold
10,845.34	10,762.54	906.85	433.42	KOP2, Begin 12.00°/100' Build
11,595.34	11,240.00	1,384.32	432.97	LP, Hold 90.00° Inc at 359.95° Azm
21,471.30	11,240.00	11,260.27	423.64	TD at 21471.30

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

CONDITIONS

Action 131521

CONDITIONS

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 131521
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	8/4/2022