

Matador Resources

Eddy County, NM (NAD27)

Stebbins Federal 19

#227H

OH

Plan: Prelim D

Standard Planning Report

14 March, 2019

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #227H
Company:	Matador Resources	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Palt 809)
Project:	Eddy County, NM (NAD27)	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Palt 809)
Site:	Stebbins Federal 19	North Reference:	Grid
Well:	#227H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim D		

Project	Eddy County, NM (NAD27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Stebbins Federal 19		
Site Position:		Northing:	564,789.00 usft
From:	Map	Easting:	570,139.00 usft
Position Uncertainty:	3.30 usft	Slot Radius:	13-3/16 "
		Latitude:	32.552507
		Longitude:	-104.105700
		Grid Convergence:	0.12 °

Well	#227H		
Well Position	+N/-S	2,048.00 usft	Northing:
	+E/-W	-285.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level:
			3,247.00 usft

Wellbore	OH		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	3/12/2019	7.23	60.32	48,002.30

Design	Prelim D		
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Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	269.96

Plan Survey Tool Program	Date	3/14/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	14,147.61 Prelim D (OH)	MWD+HDGM	
			OWSG MWD + HRGM	

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	0.00	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,617.06	8.17	155.51	2,614.30	-52.93	24.11	1.00	1.00	0.00	155.51	
7,960.74	8.17	155.51	7,903.73	-744.07	338.89	0.00	0.00	0.00	0.00	
8,777.81	0.00	0.00	8,718.03	-797.00	363.00	1.00	-1.00	0.00	180.00	
9,227.81	45.00	236.00	9,123.17	-890.84	223.87	10.00	10.00	0.00	236.00	
9,768.71	90.00	269.96	9,330.00	-1,006.72	-240.10	10.00	8.32	6.28	43.60	
14,147.61	90.00	269.96	9,330.00	-1,010.00	-4,619.00	0.00	0.00	0.00	0.00	LPP (Stebbins Fed)

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Site:	Stebbins Federal 19	North Reference:	Grid
Well:	#227H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim D		

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
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
20"									
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,125.50	0.00	0.00	1,125.50	0.00	0.00	0.00	0.00	0.00	0.00
Z (Rustler/Karst/Salt)									
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
13 3/8"									
1,225.50	0.00	0.00	1,225.50	0.00	0.00	0.00	0.00	0.00	0.00
Z (Tansill/Base Salt)									
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,380.50	0.00	0.00	1,380.50	0.00	0.00	0.00	0.00	0.00	0.00
Z (Yates)									
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.00									
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	1.00	155.51	1,899.99	-0.79	0.36	-0.36	1.00	1.00	0.00
2,000.00	2.00	155.51	1,999.96	-3.18	1.45	-1.44	1.00	1.00	0.00
2,100.00	3.00	155.51	2,099.86	-7.15	3.25	-3.25	1.00	1.00	0.00
2,200.00	4.00	155.51	2,199.68	-12.70	5.79	-5.78	1.00	1.00	0.00
2,274.08	4.74	155.51	2,273.54	-17.84	8.13	-8.11	1.00	1.00	0.00
Start 5726.75 hold at 2274.08 MD									
2,300.00	5.00	155.51	2,299.37	-19.84	9.04	-9.02	1.00	1.00	0.00
2,400.00	6.00	155.51	2,398.90	-28.56	13.01	-12.99	1.00	1.00	0.00
2,500.00	7.00	155.51	2,498.26	-38.87	17.70	-17.67	1.00	1.00	0.00
2,600.00	8.00	155.51	2,597.40	-50.74	23.11	-23.08	1.00	1.00	0.00
2,617.06	8.17	155.51	2,614.30	-52.93	24.11	-24.07	1.00	1.00	0.00
2,700.00	8.17	155.51	2,696.39	-63.66	28.99	-28.95	0.00	0.00	0.00
2,800.00	8.17	155.51	2,795.38	-76.59	34.88	-34.83	0.00	0.00	0.00
2,900.00	8.17	155.51	2,894.36	-89.52	40.77	-40.71	0.00	0.00	0.00
3,000.00	8.17	155.51	2,993.35	-102.46	46.66	-46.59	0.00	0.00	0.00
3,100.00	8.17	155.51	3,092.33	-115.39	52.56	-52.48	0.00	0.00	0.00
3,107.75	8.17	155.51	3,100.00	-116.39	53.01	-52.93	0.00	0.00	0.00
9 5/8"									
3,159.78	8.17	155.51	3,151.50	-123.12	56.08	-55.99	0.00	0.00	0.00
Z (Seven Rivers)									
3,200.00	8.17	155.51	3,191.32	-128.32	58.45	-58.36	0.00	0.00	0.00
3,300.00	8.17	155.51	3,290.30	-141.26	64.34	-64.24	0.00	0.00	0.00
3,400.00	8.17	155.51	3,389.29	-154.19	70.23	-70.12	0.00	0.00	0.00
3,500.00	8.17	155.51	3,488.27	-167.13	76.12	-76.00	0.00	0.00	0.00
3,600.00	8.17	155.51	3,587.26	-180.06	82.01	-81.88	0.00	0.00	0.00

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Site:	Stebbins Federal 19	North Reference:	Grid
Well:	#227H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim D		

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)
3,700.00	8.17	155.51	3,686.24	-192.99	87.90	-87.77	0.00	0.00	0.00
3,800.00	8.17	155.51	3,785.23	-205.93	93.79	-93.65	0.00	0.00	0.00
3,900.00	8.17	155.51	3,884.21	-218.86	99.68	-99.53	0.00	0.00	0.00
4,000.00	8.17	155.51	3,983.20	-231.80	105.57	-105.41	0.00	0.00	0.00
4,100.00	8.17	155.51	4,082.18	-244.73	111.46	-111.29	0.00	0.00	0.00
4,200.00	8.17	155.51	4,181.17	-257.66	117.35	-117.17	0.00	0.00	0.00
4,300.00	8.17	155.51	4,280.15	-270.60	123.25	-123.06	0.00	0.00	0.00
4,389.26	8.17	155.51	4,368.50	-282.14	128.50	-128.31	0.00	0.00	0.00
Z (Capitan)									
4,400.00	8.17	155.51	4,379.14	-283.53	129.14	-128.94	0.00	0.00	0.00
4,500.00	8.17	155.51	4,478.12	-296.46	135.03	-134.82	0.00	0.00	0.00
4,600.00	8.17	155.51	4,577.11	-309.40	140.92	-140.70	0.00	0.00	0.00
4,700.00	8.17	155.51	4,676.09	-322.33	146.81	-146.58	0.00	0.00	0.00
4,800.00	8.17	155.51	4,775.08	-335.27	152.70	-152.47	0.00	0.00	0.00
4,900.00	8.17	155.51	4,874.06	-348.20	158.59	-158.35	0.00	0.00	0.00
5,000.00	8.17	155.51	4,973.04	-361.13	164.48	-164.23	0.00	0.00	0.00
5,100.00	8.17	155.51	5,072.03	-374.07	170.37	-170.11	0.00	0.00	0.00
5,200.00	8.17	155.51	5,171.01	-387.00	176.26	-175.99	0.00	0.00	0.00
5,300.00	8.17	155.51	5,270.00	-399.94	182.15	-181.87	0.00	0.00	0.00
5,400.00	8.17	155.51	5,368.98	-412.87	188.04	-187.76	0.00	0.00	0.00
5,500.00	8.17	155.51	5,467.97	-425.80	193.94	-193.64	0.00	0.00	0.00
5,600.00	8.17	155.51	5,566.95	-438.74	199.83	-199.52	0.00	0.00	0.00
5,700.00	8.17	155.51	5,665.94	-451.67	205.72	-205.40	0.00	0.00	0.00
5,765.22	8.17	155.51	5,730.50	-460.11	209.56	-209.24	0.00	0.00	0.00
Z (Cherry Canyon)									
5,800.00	8.17	155.51	5,764.92	-464.60	211.61	-211.28	0.00	0.00	0.00
5,900.00	8.17	155.51	5,863.91	-477.54	217.50	-217.17	0.00	0.00	0.00
6,000.00	8.17	155.51	5,962.89	-490.47	223.39	-223.05	0.00	0.00	0.00
6,075.37	8.17	155.51	6,037.50	-500.22	227.83	-227.48	0.00	0.00	0.00
Z (Brushy Canyon)									
6,100.00	8.17	155.51	6,061.88	-503.41	229.28	-228.93	0.00	0.00	0.00
6,200.00	8.17	155.51	6,160.86	-516.34	235.17	-234.81	0.00	0.00	0.00
6,236.00	8.17	155.51	6,196.50	-521.00	237.29	-236.93	0.00	0.00	0.00
Z (Bone Spring Lime)									
6,300.00	8.17	155.51	6,259.85	-529.27	241.06	-240.69	0.00	0.00	0.00
6,400.00	8.17	155.51	6,358.83	-542.21	246.95	-246.57	0.00	0.00	0.00
6,415.83	8.17	155.51	6,374.50	-544.25	247.89	-247.51	0.00	0.00	0.00
Z (U. Avalon Shale)									
6,500.00	8.17	155.51	6,457.82	-555.14	252.84	-252.46	0.00	0.00	0.00
6,559.28	8.17	155.51	6,516.50	-562.81	256.34	-255.94	0.00	0.00	0.00
Z (Avalon Carb)									
6,600.00	8.17	155.51	6,556.80	-568.08	258.73	-258.34	0.00	0.00	0.00
6,700.00	8.17	155.51	6,655.79	-581.01	264.63	-264.22	0.00	0.00	0.00
6,800.00	8.17	155.51	6,754.77	-593.94	270.52	-270.10	0.00	0.00	0.00
6,900.00	8.17	155.51	6,853.76	-606.88	276.41	-275.98	0.00	0.00	0.00
7,000.00	8.17	155.51	6,952.74	-619.81	282.30	-281.86	0.00	0.00	0.00
7,046.23	8.17	155.51	6,998.50	-625.79	285.02	-284.58	0.00	0.00	0.00
Z (L. Avalon Shale)									
7,100.00	8.17	155.51	7,051.73	-632.74	288.19	-287.75	0.00	0.00	0.00
7,200.00	8.17	155.51	7,150.71	-645.68	294.08	-293.63	0.00	0.00	0.00
7,203.83	8.17	155.51	7,154.50	-646.17	294.30	-293.85	0.00	0.00	0.00
Z (FSBC)									
7,300.00	8.17	155.51	7,249.70	-658.61	299.97	-299.51	0.00	0.00	0.00

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Project:	Eddy County, NM (NAD27)	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site:	Stebbins Federal 19	North Reference:	Grid
Well:	#227H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim D		

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)
7,400.00	8.17	155.51	7,348.68	-671.55	305.86	-305.39	0.00	0.00	0.00
7,500.00	8.17	155.51	7,447.67	-684.48	311.75	-311.27	0.00	0.00	0.00
7,598.84	8.17	155.51	7,545.50	-697.26	317.57	-317.09	0.00	0.00	0.00
Z (FBSG)									
7,600.00	8.17	155.51	7,546.65	-697.41	317.64	-317.16	0.00	0.00	0.00
7,700.00	8.17	155.51	7,645.64	-710.35	323.53	-323.04	0.00	0.00	0.00
7,800.00	8.17	155.51	7,744.62	-723.28	329.42	-328.92	0.00	0.00	0.00
7,900.00	8.17	155.51	7,843.61	-736.22	335.32	-334.80	0.00	0.00	0.00
7,960.74	8.17	155.51	7,903.73	-744.07	338.89	-338.37	0.00	0.00	0.00
8,000.00	7.78	155.51	7,942.61	-749.03	341.15	-340.63	1.00	-1.00	0.00
8,000.84	7.77	155.51	7,943.44	-749.13	341.20	-340.67	1.00	-1.00	0.00
Start Drop -1.00									
8,004.93	7.73	155.51	7,947.50	-749.63	341.43	-340.90	1.00	-1.00	0.00
Z (SBSC)									
8,100.00	6.78	155.51	8,041.80	-760.56	346.40	-345.87	1.00	-1.00	0.00
8,200.00	5.78	155.51	8,141.20	-770.51	350.93	-350.40	1.00	-1.00	0.00
8,300.00	4.78	155.51	8,240.78	-778.88	354.75	-354.20	1.00	-1.00	0.00
8,400.00	3.78	155.51	8,340.50	-785.67	357.84	-357.29	1.00	-1.00	0.00
8,500.00	2.78	155.51	8,440.33	-790.87	360.21	-359.66	1.00	-1.00	0.00
8,600.00	1.78	155.51	8,540.25	-794.49	361.86	-361.30	1.00	-1.00	0.00
8,700.00	0.78	155.51	8,640.23	-796.52	362.78	-362.22	1.00	-1.00	0.00
8,774.92	0.03	155.51	8,715.15	-797.00	363.00	-362.44	1.00	-1.00	0.00
Start Build 10.00									
8,777.81	0.00	0.00	8,718.03	-797.00	363.00	-362.44	1.00	-1.00	0.00
8,800.00	2.22	236.00	8,740.22	-797.24	362.64	-362.09	10.00	10.00	0.00
8,825.33	4.75	236.00	8,765.50	-798.10	361.37	-360.81	10.00	10.00	0.00
Z (SBSC)									
8,850.00	7.22	236.00	8,790.03	-799.54	359.23	-358.68	10.00	10.00	0.00
8,900.00	12.22	236.00	8,839.30	-804.26	352.24	-351.68	10.00	10.00	0.00
8,950.00	17.22	236.00	8,887.64	-811.36	341.71	-341.14	10.00	10.00	0.00
9,000.00	22.22	236.00	8,934.70	-820.79	327.73	-327.15	10.00	10.00	0.00
9,050.00	27.22	236.00	8,980.10	-832.48	310.40	-309.82	10.00	10.00	0.00
9,100.00	32.22	236.00	9,023.51	-846.34	289.86	-289.26	10.00	10.00	0.00
9,150.00	37.22	236.00	9,064.59	-862.26	266.25	-265.65	10.00	10.00	0.00
9,200.00	42.22	236.00	9,103.04	-880.12	239.77	-239.16	10.00	10.00	0.00
9,224.92	44.71	236.00	9,121.13	-889.70	225.56	-224.94	10.00	10.00	0.00
Start DLS 10.00 TFO 43.60									
9,227.81	45.00	236.00	9,123.17	-890.84	223.87	-223.25	10.00	10.00	0.00
9,250.00	46.63	238.11	9,138.64	-899.49	210.52	-209.89	10.00	7.33	9.49
9,300.00	50.42	242.46	9,171.76	-918.02	177.99	-177.34	10.00	7.59	8.70
9,350.00	54.36	246.35	9,202.28	-935.09	142.27	-141.61	10.00	7.88	7.78
9,362.55	55.37	247.26	9,209.50	-939.13	132.83	-132.18	10.00	8.03	7.29
Z (TBSC)									
9,400.00	58.41	249.87	9,229.96	-950.58	103.64	-102.97	10.00	8.13	6.96
9,401.04	58.50	249.94	9,230.50	-950.88	102.81	-102.14	10.00	8.20	6.71
Z (TBSC)									
9,450.00	62.55	253.09	9,254.59	-964.37	62.39	-61.72	10.00	8.28	6.44
9,500.00	66.76	256.08	9,276.00	-976.36	18.84	-18.16	10.00	8.42	5.98
9,550.00	71.02	258.88	9,294.00	-986.45	-26.68	27.37	10.00	8.52	5.61
9,600.00	75.32	261.54	9,308.48	-994.57	-73.83	74.52	10.00	8.60	5.33
9,650.00	79.65	264.10	9,319.31	-1,000.66	-122.25	122.94	10.00	8.66	5.12
9,700.00	84.01	266.59	9,326.41	-1,004.66	-171.56	172.26	10.00	8.70	4.98
9,750.00	88.37	269.04	9,329.74	-1,006.56	-221.40	222.10	10.00	8.72	4.90

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #227H
Company:	Matador Resources	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Project:	Eddy County, NM (NAD27)	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site:	Stebbins Federal 19	North Reference:	Grid
Well:	#227H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim D		

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)
9,765.82	89.75	269.82	9,330.00	-1,006.71	-237.21	237.92	10.00	8.73	4.88
Start 4378.90' hold at 9765.82 MD									
9,768.71	90.00	269.96	9,330.00	-1,006.72	-240.10	240.80	10.00	8.73	4.88
9,800.00	90.00	269.96	9,330.00	-1,006.74	-271.39	272.10	0.00	0.00	0.00
9,900.00	90.00	269.96	9,330.00	-1,006.82	-371.39	372.10	0.00	0.00	0.00
10,000.00	90.00	269.96	9,330.00	-1,006.89	-471.39	472.10	0.00	0.00	0.00
10,100.00	90.00	269.96	9,330.00	-1,006.97	-571.39	572.10	0.00	0.00	0.00
10,200.00	90.00	269.96	9,330.00	-1,007.04	-671.39	672.10	0.00	0.00	0.00
10,300.00	90.00	269.96	9,330.00	-1,007.12	-771.39	772.10	0.00	0.00	0.00
10,400.00	90.00	269.96	9,330.00	-1,007.19	-871.39	872.10	0.00	0.00	0.00
10,500.00	90.00	269.96	9,330.00	-1,007.27	-971.39	972.10	0.00	0.00	0.00
10,600.00	90.00	269.96	9,330.00	-1,007.34	-1,071.39	1,072.10	0.00	0.00	0.00
10,700.00	90.00	269.96	9,330.00	-1,007.42	-1,171.39	1,172.10	0.00	0.00	0.00
10,800.00	90.00	269.96	9,330.00	-1,007.49	-1,271.39	1,272.10	0.00	0.00	0.00
10,900.00	90.00	269.96	9,330.00	-1,007.57	-1,371.39	1,372.10	0.00	0.00	0.00
11,000.00	90.00	269.96	9,330.00	-1,007.64	-1,471.39	1,472.10	0.00	0.00	0.00
11,100.00	90.00	269.96	9,330.00	-1,007.72	-1,571.39	1,572.10	0.00	0.00	0.00
11,200.00	90.00	269.96	9,330.00	-1,007.79	-1,671.39	1,672.10	0.00	0.00	0.00
11,300.00	90.00	269.96	9,330.00	-1,007.87	-1,771.39	1,772.10	0.00	0.00	0.00
11,400.00	90.00	269.96	9,330.00	-1,007.94	-1,871.39	1,872.10	0.00	0.00	0.00
11,500.00	90.00	269.96	9,330.00	-1,008.02	-1,971.39	1,972.10	0.00	0.00	0.00
11,600.00	90.00	269.96	9,330.00	-1,008.09	-2,071.39	2,072.10	0.00	0.00	0.00
11,700.00	90.00	269.96	9,330.00	-1,008.17	-2,171.39	2,172.10	0.00	0.00	0.00
11,800.00	90.00	269.96	9,330.00	-1,008.24	-2,271.39	2,272.10	0.00	0.00	0.00
11,900.00	90.00	269.96	9,330.00	-1,008.32	-2,371.39	2,372.10	0.00	0.00	0.00
12,000.00	90.00	269.96	9,330.00	-1,008.39	-2,471.39	2,472.10	0.00	0.00	0.00
12,100.00	90.00	269.96	9,330.00	-1,008.47	-2,571.39	2,572.10	0.00	0.00	0.00
12,200.00	90.00	269.96	9,330.00	-1,008.54	-2,671.39	2,672.10	0.00	0.00	0.00
12,300.00	90.00	269.96	9,330.00	-1,008.62	-2,771.39	2,772.10	0.00	0.00	0.00
12,400.00	90.00	269.96	9,330.00	-1,008.69	-2,871.39	2,872.10	0.00	0.00	0.00
12,500.00	90.00	269.96	9,330.00	-1,008.77	-2,971.39	2,972.10	0.00	0.00	0.00
12,600.00	90.00	269.96	9,330.00	-1,008.84	-3,071.39	3,072.10	0.00	0.00	0.00
12,700.00	90.00	269.96	9,330.00	-1,008.92	-3,171.39	3,172.10	0.00	0.00	0.00
12,800.00	90.00	269.96	9,330.00	-1,008.99	-3,271.39	3,272.10	0.00	0.00	0.00
12,900.00	90.00	269.96	9,330.00	-1,009.07	-3,371.39	3,372.10	0.00	0.00	0.00
13,000.00	90.00	269.96	9,330.00	-1,009.14	-3,471.39	3,472.10	0.00	0.00	0.00
13,100.00	90.00	269.96	9,330.00	-1,009.22	-3,571.39	3,572.10	0.00	0.00	0.00
13,200.00	90.00	269.96	9,330.00	-1,009.29	-3,671.39	3,672.10	0.00	0.00	0.00
13,300.00	90.00	269.96	9,330.00	-1,009.36	-3,771.39	3,772.10	0.00	0.00	0.00
13,400.00	90.00	269.96	9,330.00	-1,009.44	-3,871.39	3,872.10	0.00	0.00	0.00
13,500.00	90.00	269.96	9,330.00	-1,009.51	-3,971.39	3,972.10	0.00	0.00	0.00
13,600.00	90.00	269.96	9,330.00	-1,009.59	-4,071.39	4,072.10	0.00	0.00	0.00
13,700.00	90.00	269.96	9,330.00	-1,009.66	-4,171.39	4,172.10	0.00	0.00	0.00
13,800.00	90.00	269.96	9,330.00	-1,009.74	-4,271.39	4,272.10	0.00	0.00	0.00
13,900.00	90.00	269.96	9,330.00	-1,009.81	-4,371.39	4,372.10	0.00	0.00	0.00
14,000.00	90.00	269.96	9,330.00	-1,009.89	-4,471.39	4,472.10	0.00	0.00	0.00
14,100.00	90.00	269.96	9,330.00	-1,009.96	-4,571.39	4,572.10	0.00	0.00	0.00
14,144.72	90.00	269.96	9,330.00	-1,010.00	-4,616.12	4,616.82	0.00	0.00	0.00
TD at 14144.72									
14,147.61	90.00	269.96	9,330.00	-1,010.00	-4,619.00	4,619.70	0.00	0.00	0.00

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #227H
Company:	Matador Resources	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Project:	Eddy County, NM (NAD27)	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site:	Stebbins Federal 19	North Reference:	Grid
Well:	#227H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim D		

Design Targets

Target Name

- hit/miss target	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
FTP (Stebbins Fed 19	0.00	0.00	0.00	-1,006.00	313.00	565,831.00	570,167.00	32.555371	-104.105601
- plan misses target center by 1053.57usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
LPP (Stebbins Fed 19	0.00	0.00	9,330.00	-1,010.00	-4,619.00	565,827.00	565,235.00	32.555388	-104.121609
- plan hits target center									
- Point									

Casing Points

Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
(usft)	(usft)	Name	(")	(")
400.00	400.00	20"	20	26
1,200.00	1,200.00	13 3/8"	13-3/8	17-1/2
3,107.75	3,100.00	9 5/8"	9-5/8	12-1/4

Formations

Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(usft)	(usft)			(°)	(°)
1,125.50	1,125.50	Z (Rustler/Karst/Salt)			
1,225.50	1,225.50	Z (Tansill/Base Salt)			
1,380.50	1,380.50	Z (Yates)			
3,159.78	3,151.50	Z (Seven Rivers)			
4,389.26	4,368.50	Z (Capitan)			
5,765.22	5,730.50	Z (Cherry Canyon)			
6,075.37	6,037.50	Z (Brushy Canyon)			
6,236.00	6,196.50	Z (Bone Spring Lime)			
6,415.83	6,374.50	Z (U. Avalon Shale			
6,559.28	6,516.50	Z (Avalon Carb)			
7,046.23	6,998.50	Z (L. Avalon Shale)			
7,203.83	7,154.50	Z (FSBC)			
7,598.84	7,545.50	Z (FBSG)			
8,004.93	7,947.50	Z (SBSC)			
8,825.33	8,765.50	Z (SBSC)			
9,362.55	9,209.50	Z (TBSC)			
9,401.04	9,230.50	Z (TBSC)			

Pro Directional Planning Report

Database:	WellPlanner1	Local Co-ordinate Reference:	Well #227H
Company:	Matador Resources	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Project:	Eddy County, NM (NAD27)	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site:	Stebbins Federal 19	North Reference:	Grid
Well:	#227H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Prelim D		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,500.00	1,500.00	0.00	0.00	Start Build 1.00
2,274.08	2,273.54	-17.84	8.13	Start 5726.75 hold at 2274.08 MD
8,000.84	7,943.44	-749.13	341.20	Start Drop -1.00
8,774.92	8,715.15	-797.00	363.00	Start Build 10.00
9,224.92	9,121.13	-889.70	225.56	Start DLS 10.00 TFO 43.60
9,765.82	9,330.00	-1,006.71	-237.21	Start 4378.90 hold at 9765.82 MD
14,144.72	9,330.00	-1,010.00	-4,616.12	TD at 14144.72

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, 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 30-015-44171		² Pool Code 98315		³ Pool Name Burton Flat East, Upper Wolfcamp	
⁴ Property Code		⁵ Property Name STEBBINS 19 FED COM			⁶ Well Number 227H
⁷ GRID No.		⁸ Operator Name MATADOR PRODUCTION COMPANY			⁹ Elevation 3247'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	19	20-S	29-E	-	2377'	SOUTH	410'	EAST	EDDY

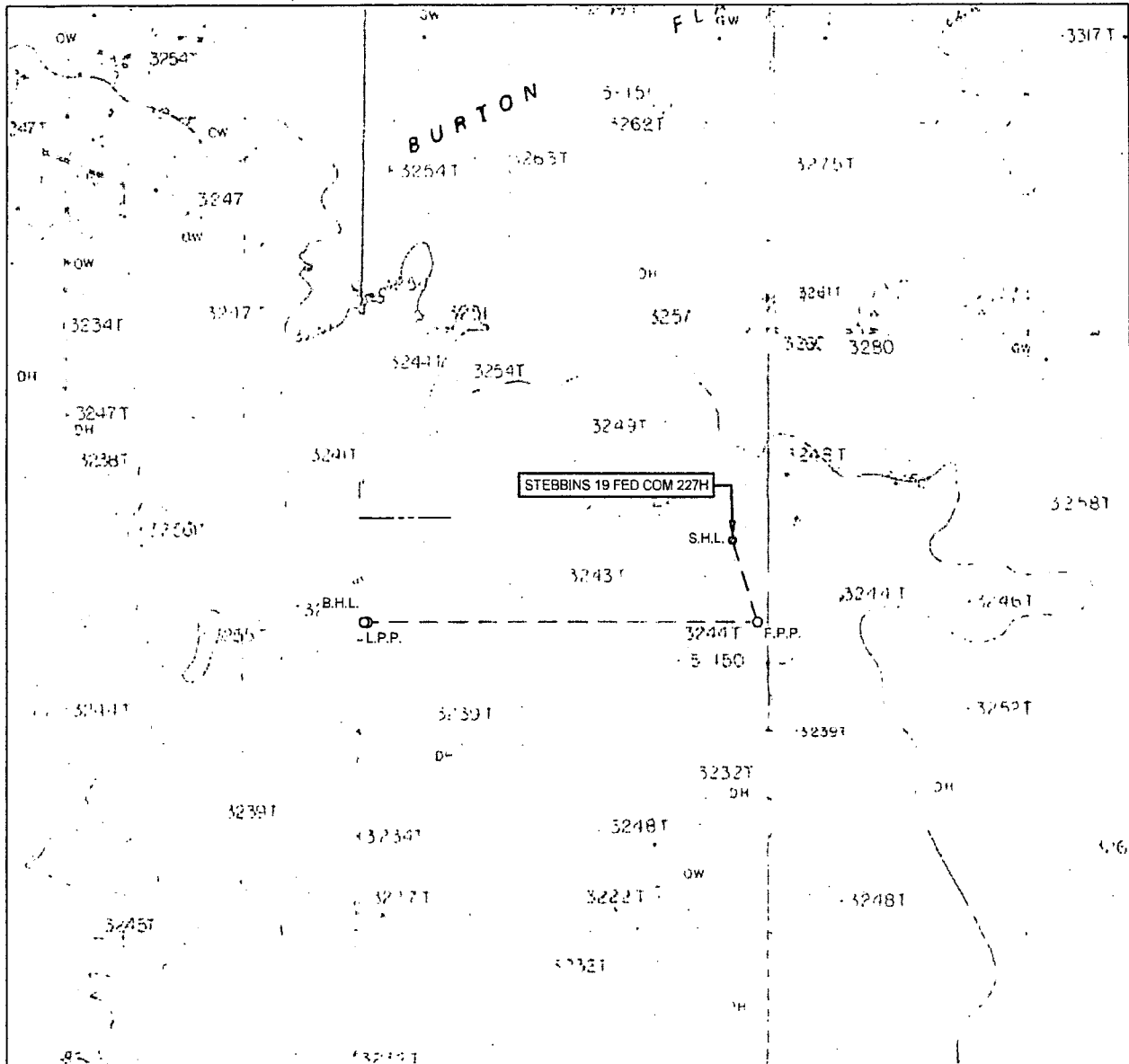
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	19	20-S	29-E	-	1370'	SOUTH	60'	WEST	EDDY

¹² Dedicated Acres 155.29	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.

16 BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1927 X=565195 Y=565827 LAT.: N 32.5553890 LONG.: W 104.1217390 NAD 1983 X=606375 Y=565889 LAT.: N 32.5555073 LONG.: W 104.1222439	LAST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=565235 Y=565827 LAT.: N 32.5553889 LONG.: W 104.1216092 NAD 1983 X=606415 Y=565889 LAT.: N 32.5555072 LONG.: W 104.1221140	FIRST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=570167 Y=565831 LAT.: N 32.5553696 LONG.: W 104.1056019 NAD 1983 X=611347 Y=565892 LAT.: N 32.5554881 LONG.: W 104.1061064	SURFACE LOCATION NEW MEXICO EAST NAD 1927 X=569854 Y=566837 LAT.: N 32.5581367 LONG.: W 104.1066098 NAD 1983 X=611035 Y=566898 LAT.: N 32.5582551 LONG.: W 104.1071143	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Code LaBolt</i> Date: 3/18/19 Printed Name: Code LaBolt E-mail Address: code.laolt@matadorresources.com
18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief. Date of Survey: 02/05/2019 Signature and Seal: <i>[Signature]</i> MY CHAIRMAN BROWN Professional Surveyor 18329 Certificate Number: <i>[Signature]</i>				19 Diagram A diagram showing the well location and surface location. The diagram includes a grid with sections 19 and 20-S, range 29-E, and lot 3. The well location is marked with a dot and labeled 'WELL LOCATION'. The surface location is marked with a dot and labeled 'SURFACE LOCATION'. The diagram also shows the 'LAST PERFORATION POINT' and 'FIRST PERFORATION POINT'. The diagram includes bearings and distances: AZ = 269.96°, 4932.1'; AZ = 162.73°, 1053.5'; 60', 100', 50', 40.0', 1370', 2377', 410', 1371', 100', 50'.

LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: STEBBINS 19 FED COM 227H

SECTION 19 TWP 20-S RGE 29-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM ELEVATION 3247'
 DESCRIPTION 2377' FSL & 410' FEL

LATITUDE N 32.5582551 LONGITUDE W 104.1071143



SCALE: 1" = 2000'
 0' 1000' 2000'

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

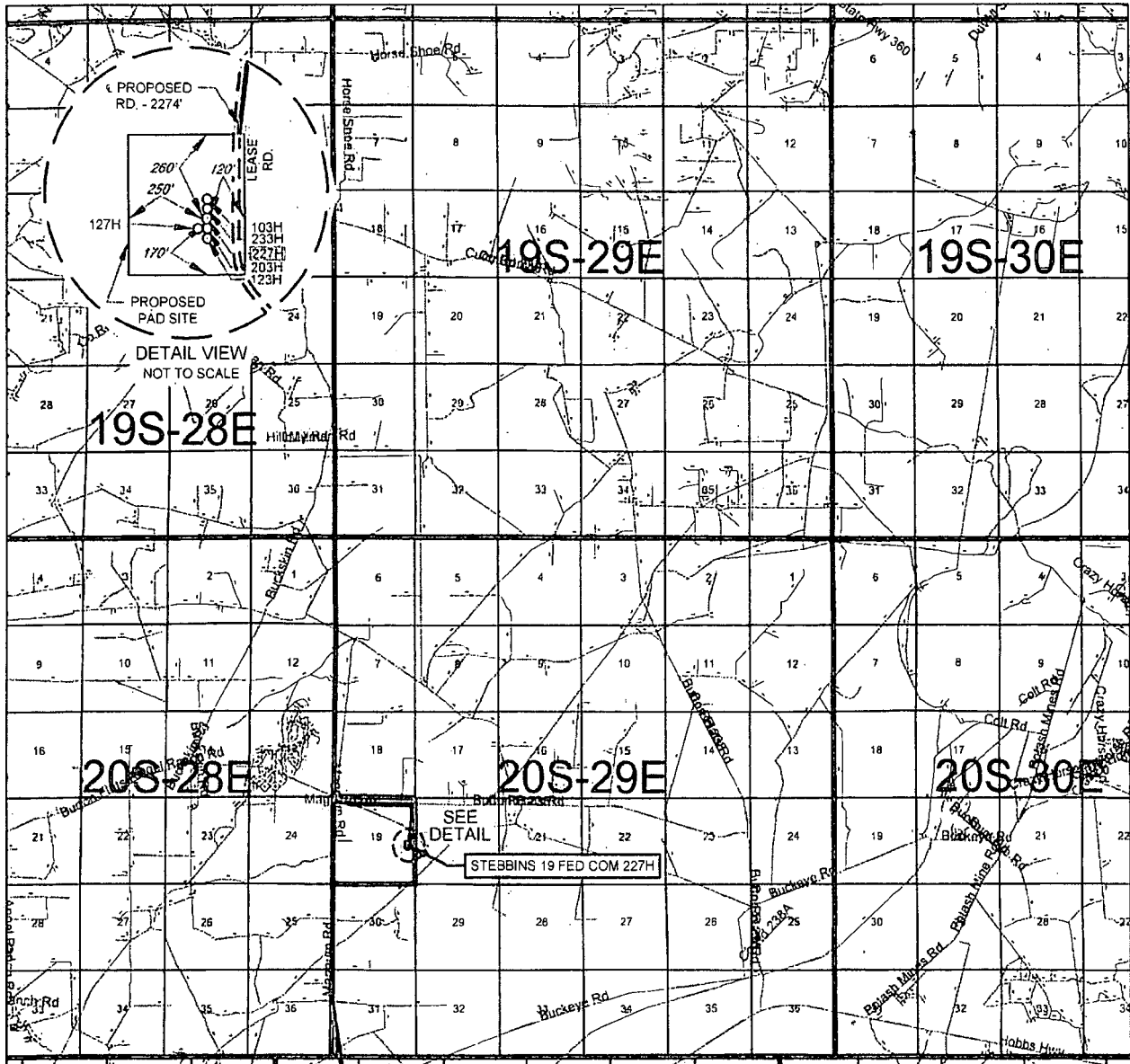
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.



TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 148 • FT. WORTH, TEXAS 76140
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
 2803 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM

VICINITY MAP



LEASE NAME & WELL NO.: STEBBINS 19 FED COM 227H

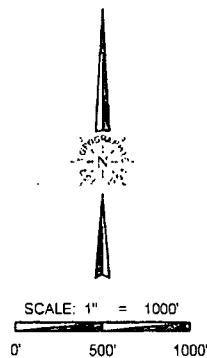
SECTION 19 TWP 20-S RGE 29-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM
 DESCRIPTION 2377' FSL & 410' FEL

DISTANCE & DIRECTION

FROM INT. OF US-285 AND US-180/US-62 E/W GREENE ST. GO EAST ON
US-180 E/W US-62 E/W ±8.3 MILES, THENCE NORTH (LEFT) ON MAGNUM
RD. ±5.9 MILES, THENCE SOUTHEAST ON BURTON FLATS RD. ±1.0
MILES, THENCE SOUTH (RIGHT) ON A PROPOSED RD. ±2274 FEET TO A
POINT ±280 FEET NORTH OF THE LOCATION

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

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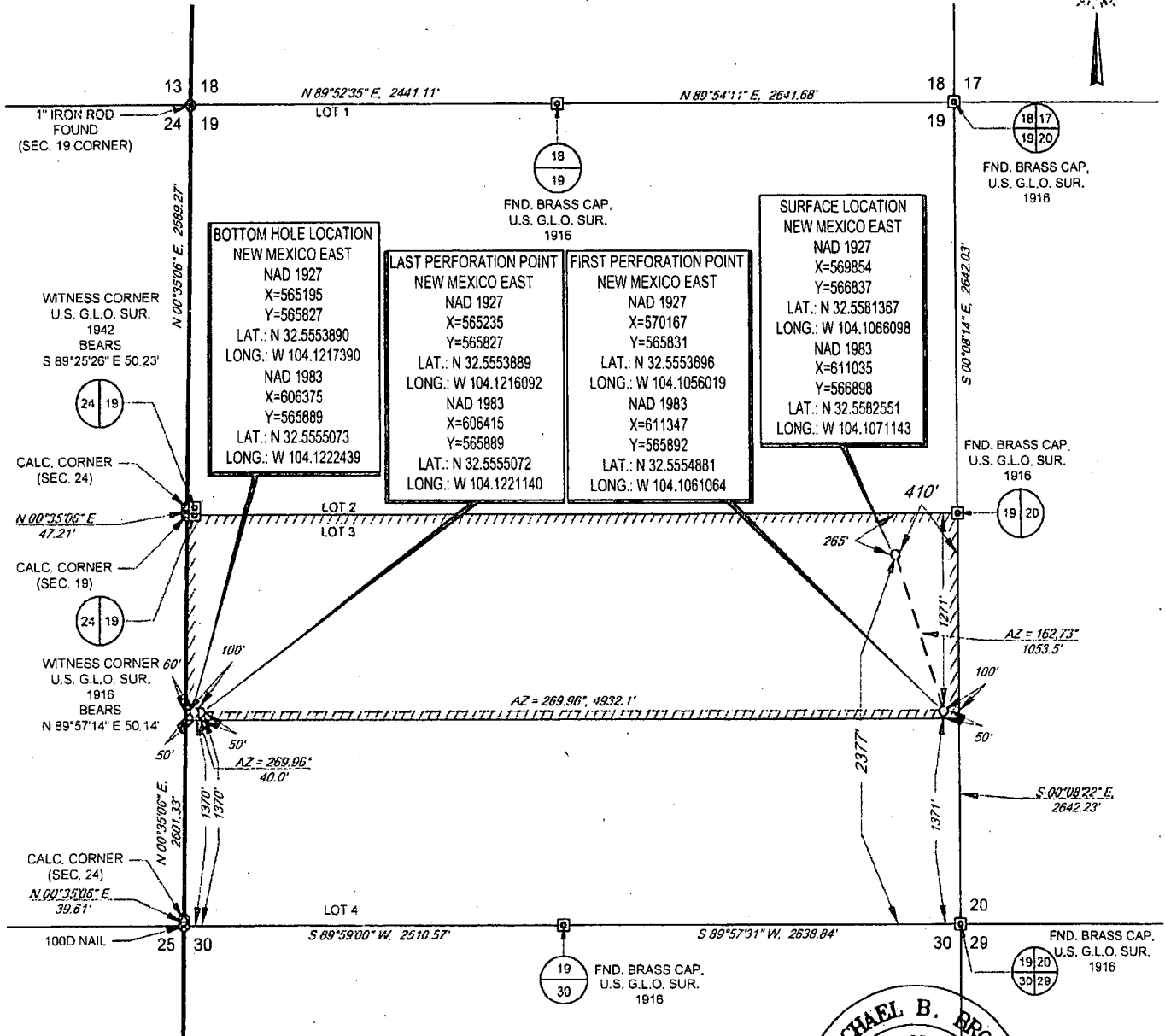
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 WWW.TOPOGRAPHIC.COM

SCALE: 1" = 1000'
0' 500' 1000'



SECTION 19, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

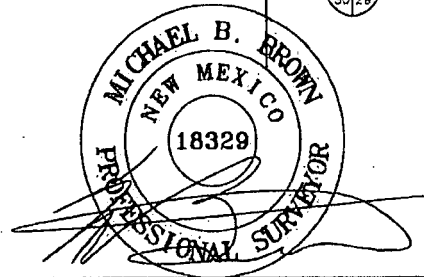


LEASE NAME & WELL NO.: STEBBINS 19 FED COM 227H
SECTION 19 TWP 20-S RGE 29-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 2377' FSL & 410' FEL

DISTANCE & DIRECTION

FROM INT. OF US-285 AND US-180/US-62 E/W GREENE ST. GO EAST ON
US-180 E/US-62 E/W ±8.3 MILES, THENCE NORTH (LEFT) ON MAGNUM
RD. ±5.9 MILES, THENCE SOUTHEAST ON BURTON FLATS RD. ±1.0
MILES, THENCE SOUTH (RIGHT) ON A PROPOSED RD. ±2274 FEET TO A
POINT ±280 FEET NORTH OF THE LOCATION

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY, THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.
AS OF THE DATE OF SURVEY, ALL ABOVE GROUND APPURTENANCES WITHIN 300' OF THE STAKED LOCATION ARE SHOWN HEREON.



Michael Blake Brown, P.S. No. 18329
MARCH 7, 2019

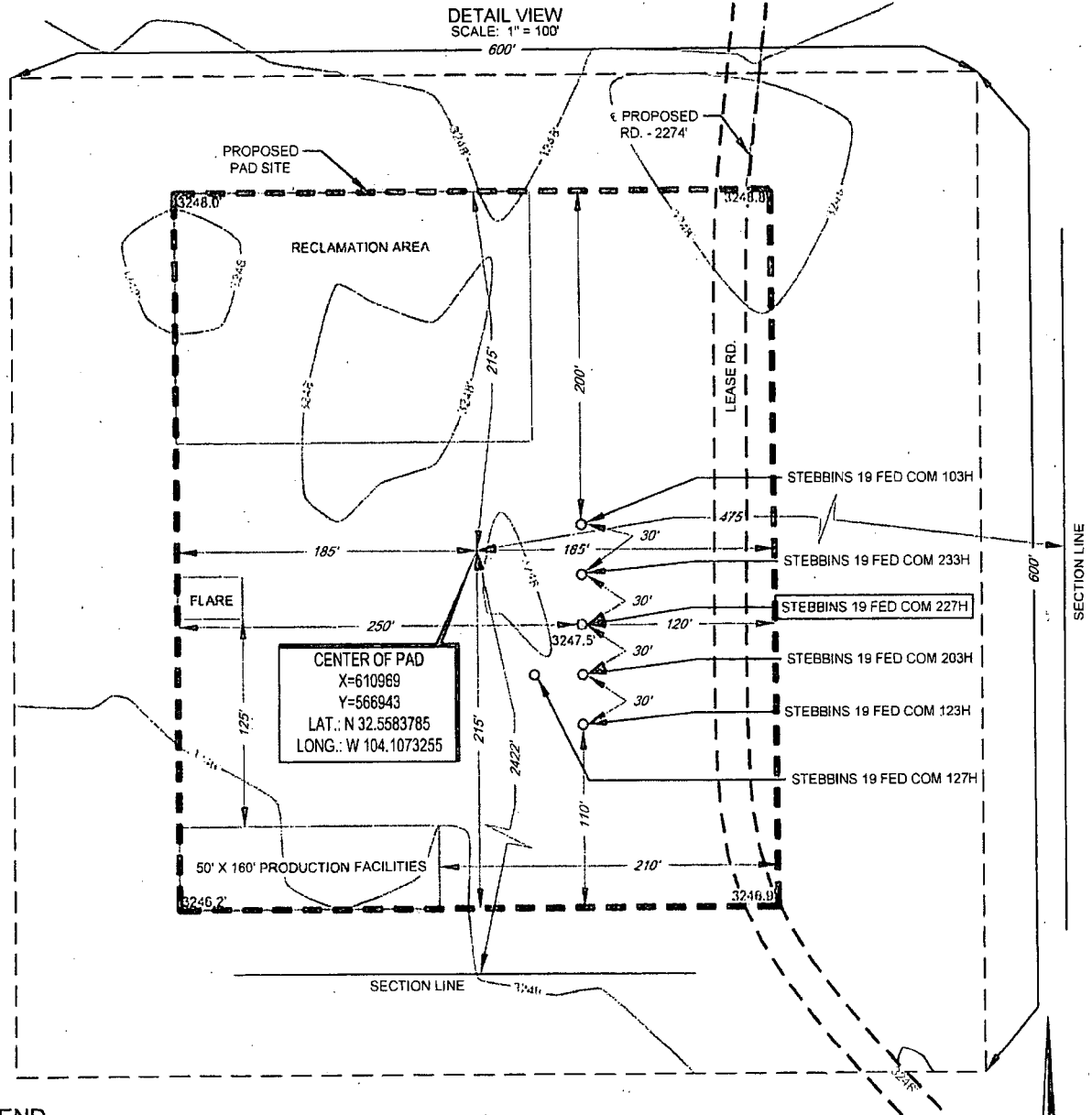


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LOYALTY INNOVATION LEGACY

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SECTION 19, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



LEGEND

- PROPOSED SITE
- ARCH SURVEY
- ROAD WAY
- GAS — PROPOSED GAS LINE
- OHE — PROPOSED OVERHEAD ELECTRIC
- PROPOSED ROAD
- EXISTING PIPELINE

LEASE NAME & WELL NO.: STEBBINS 19 FED COM 227H
227H LATITUDE N 32.5582551 227H LONGITUDE W 104.1071143

CENTER OF PAD IS 2422' FSL & 475' FEL

SCALE: 1" = 100'
0' 50' 100'

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



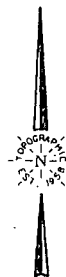
TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 148 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
7803 NORTH RIG SPRING • MIDLAND, TEXAS 79705
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ORIGINAL DOCUMENT SIZE: 8.5" X 11"

SCALE: 1" = 300'
0' 150' 300'

SECTION 19, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



500' OFFSET AREA

STEBBINS FED
ROAD EASEMENT
STEBBINS FED
ELECTRICAL EASEMENT
STEBBINS FED
GAS SALES LINE EASEMENT

3248.0'
3248.0'
PROPOSED
3.65 ACRE
SURFACE PAD
SITE
3246.9'
3246.2'
STEBBINS FED COM 19 103H
STEBBINS FED COM 19 233H
STEBBINS FED COM 19 227H
STEBBINS FED COM 19 127H
STEBBINS FED COM 19 203H
STEBBINS FED COM 19 123H

STEBBINS FED
ELECTRICAL EASEMENT
STEBBINS FED
GAS SALES LINE EASEMENT

19 20
FND. BRASS CAP
U.S. G.L.O. SUR.
1916

LEASE RD.

PROPOSED
3.65 ACRE
SURFACE PAD
SITE

STEBBINS 20 FED 203H
STEBBINS 20 FED 133H
STEBBINS 20 FED 123H
STEBBINS 20 FED 113H

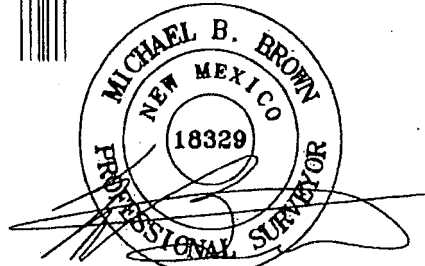
STEBBINS FED
ROAD EASEMENT
STEBBINS FED
ELECTRICAL EASEMENT
STEBBINS FED
GAS SALES LINE EASEMENT

LEGEND

- PROPOSED SITE
- SURVEY/SECTION LINE
- == ROAD WAY
- GAS
- PROPOSED GAS LINE
- OHE
- PROPOSED OVERHEAD ELECTRIC
- PROPOSED ROAD
- EXISTING PIPELINE
- ⊠ MONUMENT
- ⊙ IRON ROD SET



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WWW.TOPOGRAPHIC.COM



Michael Blake Brown, P.S. No. 18329
MARCH 7, 2019

STEBBINS 19 FED
COM 227H
PROXIMITY

REVISION:

AMD 03/07/2019

DATE: 02/08/19

FILE: LO_STEBBINS_19_FED_COM_227H_REV1

DRAWN BY: AMD

SHEET: 7 OF 7

NOTES:

1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR PRODUCTION COMPANY. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.



Matador Resources
Eddy County, NM (NAD27)
Stebbins Federal 19
#137H
Prelim C
Patt 809



RKB Elevation: 3242 + 28.5 = KB @ 3270.50usft (Patt 809)

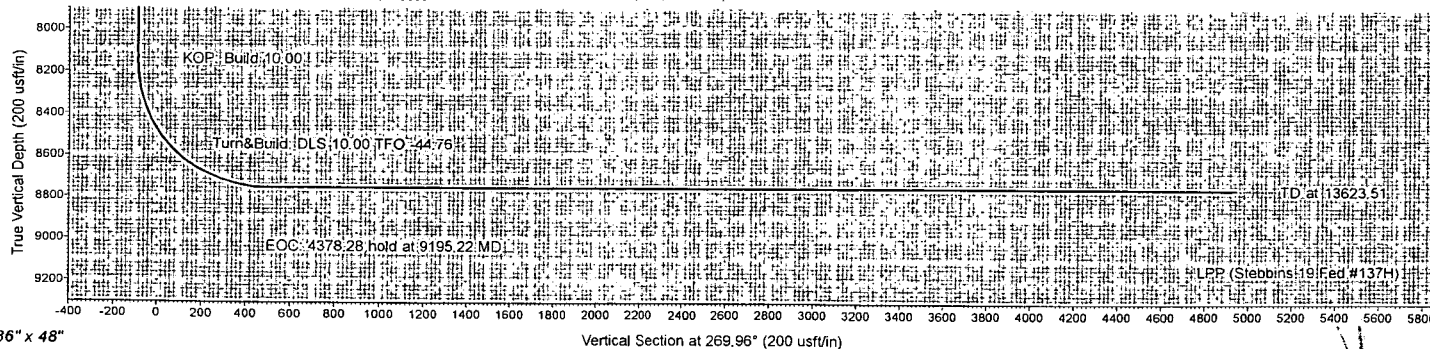
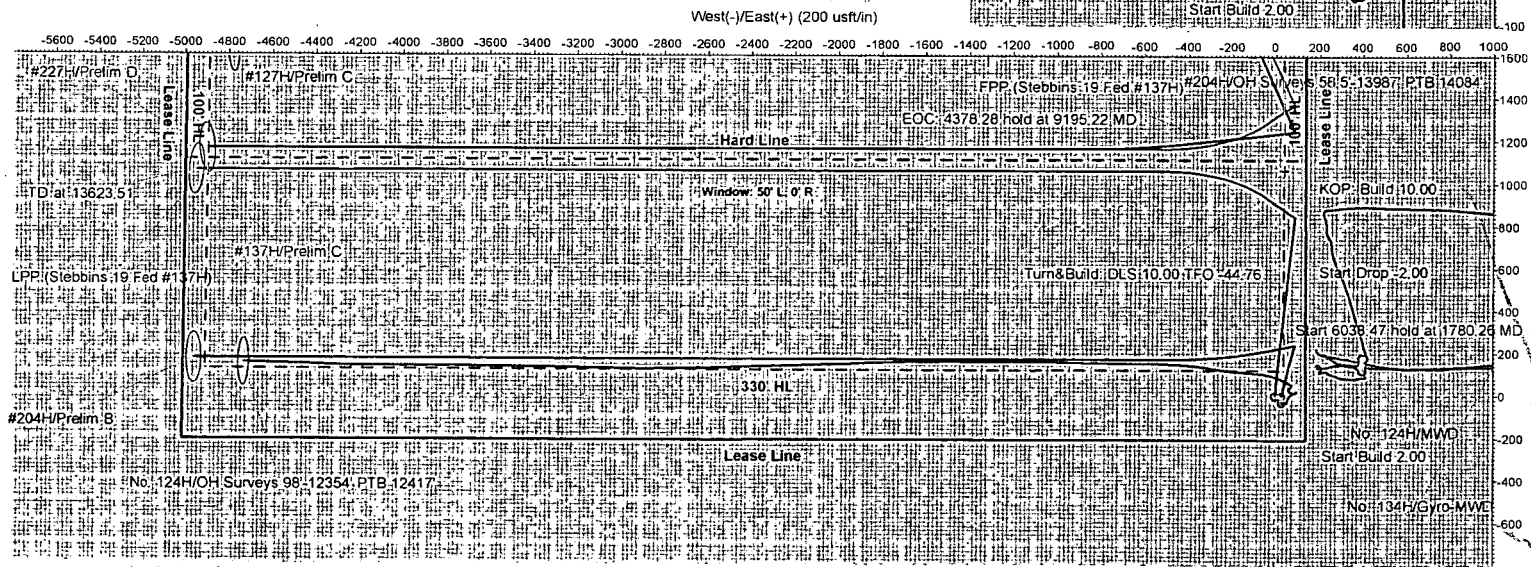
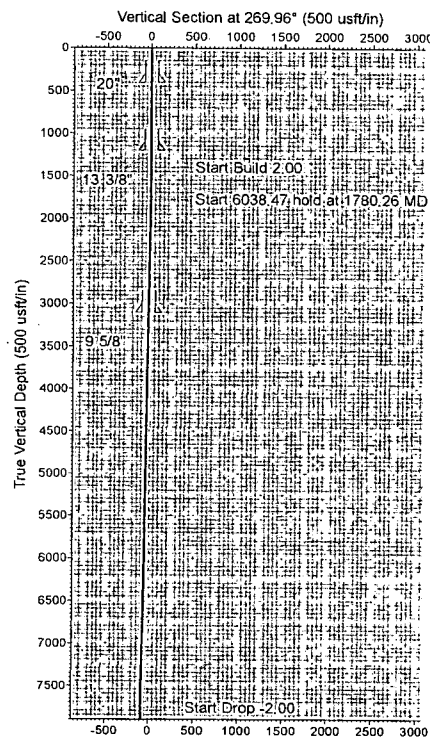
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	564669.00	570129.00	32.552177	-104.105733	

Targets

Name	TVD	+N/-S	+E/-W	Northing	Easting
FPP (Stebbins 19 Fed #137H)	0.00	1062.00	38.00	565731.00	570167.00
LPP (Stebbins 19 Fed #137H)	8758.00	1058.00	-4895.00	565727.00	565234.00

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00
3	1780.26	7.61	5.95	1779.14	25.06	2.61	2.00	-2.63
4	7818.73	7.61	5.95	7764.50	819.94	-85.39	0.00	-85.96
5	8198.99	0.00	0.00	8143.64	645.00	-88.00	2.00	-88.59
6	8648.99	45.00	305.00	8548.78	941.25	-49.47	10.00	-48.81
7	9195.22	90.00	269.96	8758.00	1061.05	-516.72	10.00	-515.98
8	13573.51	90.00	269.96	8758.00	1058.00	-4895.00	0.00	-4894.26
9	13623.51	90.00	269.96	8758.00	1057.97	-4945.00	0.00	-4944.26



Azimuths to Grid North
True North: -0.12°
Magnetic North: 7.11°
Magnetic Field
Strength: 48008.0nT
Dip Angle: 60.32°
Date: 2/19/2019
Model: HDGM

US State Plane 1627 (Exact solution)
NAD 1927 (NADCON CONUS)
Clarke 1866
New Mexico East 3001
Mean Sea Level

Azimuth Corrections
Total Magnetic Corr. (M to G): 7.11°