



**PHOENIX
TECHNOLOGY SERVICES**

November 29, 2018

Oil Conservation Division
State of New Mexico
811 S. First St.
Artesia, New Mexico 88210

RECEIVED

FEB 04 2019

Dear District 2 - Artesia

Re: Matador Resources
David Edelstein State Com 12-24S-27E RB 223H
Eddy County, New Mexico
API #30-015-45143
Job No. 63722

DISTRICT II-ARTESIA O.C.D.

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. (P-5 No. 664171). 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	
Erica Cochrum	223H	135	17,473	10/12/18	11/13/18	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 #: 63722

Client: Matador Resources

County & State: Eddy County, NM

Well: David Edelstein State Com #223H

API No: 30-015-45143

Proposed Direction:

TIE-IN DATA

MD	TVD	INC	AZM	N/-S	E/-W	DATA SOURCE
		0	0	0	0	
Data Source Company:						

SURVEY DATA

First Survey Date	First Survey Depth	INC	AZM
12-Oct-18	135 ft	0.14°	93.19°

Last Survey Date	Last Survey Depth	INC	AZM
13-Nov-18	17,473 ft	93.14°	278.33°

Survey Instrument Type

Phoenix P-360 MWD

Projected TD Survey Date	Projected TD Survey Depth	INC	AZM
13-Nov-18	17,543 ft	93.14°	278.33°

CORRECTION INFORMATION

Magnetic Declination Used	7.22 degrees
Grid Convergence Used	0.11 degrees
Total Correction	7.11 degrees

Corrected to True/Grid North

Grid North

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

Erica Cochrum 11/13/2018

Field Engineer Signature Date

Well Planner/Supervisor Date



PHOENIX
TECHNOLOGY SERVICES

Matador Resources

**Eddy County, NM (NAD27 NME)
David Edelstein State Com 12-24S-27E RB
223H**

OH / 63722

RECEIVED

FEB 04 2019

DISTRICT II-ARTESIA O.C.D.

Survey: Phoenix MWD Surveys

Standard Survey Report

26 November, 2018





Survey Report



Company: Matador Resources
Project: Eddy County, NM (NAD27 NME)
Site: David Edelstein State Com 12-24S-27E RB
Well: 223H
Wellbore: OH / 63722
Design: Surveys (Patterson 297)

Local Co-ordinate Reference: Well 223H
TVD Reference: KB=29' @ 3117.50usft (Patterson 297)
MD Reference: KB=29' @ 3117.50usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: USA Compass

Project	Eddy County, NM (NAD27 NME)		
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	David Edelstein State Com 12-24S-27E RB				
Site Position:		Northing:	447,660.00 usft	Latitude:	32° 13' 50.08972 N
From:	Map	Easting:	560,995.00 usft	Longitude:	104° 8' 9.87662 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.11 °

Well	223H				
Well Position	+N/-S	0.00 usft	Northing:	447,660.00 usft	Latitude: 32° 13' 50.08972 N
	+E/-W	0.00 usft	Easting:	560,995.00 usft	Longitude: 104° 8' 9.87662 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,089.00 usft

Wellbore	OH / 63722				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	10/31/2018	7.22	59.99	47,944.64853237

Design	Surveys (Patterson 297)				
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	269.03	

Survey Program	Date 11/26/2018				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
135.00	17,543.00	Phoenix MWD Surveys (OH / 63722)	MWD+HDGM	OWSG Rev.2 MWD + HDGM	

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	
135.00	0.14	93.19	135.00	-0.01	0.16	-0.16	0.10	0.10	0.00	
First Phoenix MWD Survey										
226.00	0.74	109.41	226.00	-0.21	0.83	-0.83	0.67	0.66	17.82	
317.00	1.43	134.09	316.98	-1.20	2.20	-2.18	0.90	0.76	27.12	
399.00	1.68	129.91	398.95	-2.68	3.86	-3.81	0.33	0.30	-5.10	
506.00	1.81	134.94	505.90	-4.88	6.26	-6.17	0.19	0.12	4.70	
597.00	1.93	133.96	596.85	-6.96	8.38	-8.26	0.14	0.13	-1.08	
689.00	1.31	126.75	688.81	-8.66	10.33	-10.19	0.71	-0.67	-7.84	
781.00	1.06	132.46	780.80	-9.87	11.80	-11.64	0.30	-0.27	6.21	
872.00	1.10	131.79	871.78	-11.02	13.08	-12.89	0.05	0.04	-0.74	



Survey Report



Company: Matador Resources
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Site: David Edelstein State Com 12-24S-27E RB
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Wellbore: OH / 63722
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Local Co-ordinate Reference: Well 223H
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North Reference: Grid
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)
966.00	0.13	54.32	965.77	-11.56	13.84	-13.64	1.15	-1.03	-82.41
1,059.00	0.25	304.02	1,058.77	-11.38	13.75	-13.56	0.34	0.13	-118.60
1,153.00	0.41	227.01	1,152.77	-11.50	13.34	-13.14	0.46	0.17	-81.93
1,247.00	0.31	283.52	1,246.77	-11.67	12.84	-12.64	0.37	-0.11	60.12
1,340.00	0.60	274.69	1,339.77	-11.57	12.11	-11.92	0.32	0.31	-9.49
1,434.00	0.80	281.71	1,433.76	-11.39	10.98	-10.79	0.23	0.21	7.47
1,528.00	0.79	281.74	1,527.75	-11.13	9.70	-9.51	0.01	-0.01	0.03
1,621.00	0.20	60.23	1,620.75	-10.92	9.22	-9.03	1.02	-0.63	148.91
1,715.00	0.90	101.67	1,714.74	-10.98	10.08	-9.90	0.81	0.74	44.09
1,808.00	1.66	100.00	1,807.72	-11.37	12.12	-11.93	0.82	0.82	-1.80
1,902.00	0.99	109.69	1,901.69	-11.88	14.23	-14.03	0.75	-0.71	10.31
1,995.00	1.09	128.23	1,994.68	-12.69	15.68	-15.46	0.38	0.11	19.94
2,089.00	0.81	86.54	2,088.67	-13.21	17.05	-16.82	0.77	-0.30	-44.35
2,182.00	1.21	68.96	2,181.65	-12.82	18.62	-18.40	0.54	0.43	-18.90
2,276.00	0.39	104.84	2,275.64	-12.54	19.86	-19.64	0.98	-0.87	38.17
2,369.00	0.34	160.51	2,368.64	-12.88	20.25	-20.03	0.37	-0.05	59.86
2,445.00	0.29	99.19	2,444.64	-13.13	20.52	-20.29	0.43	-0.07	-80.68
2,573.00	0.23	111.22	2,572.64	-13.27	21.08	-20.85	0.06	-0.05	9.40
2,666.00	0.38	135.40	2,665.64	-13.56	21.47	-21.24	0.21	0.16	26.00
2,760.00	0.59	128.25	2,759.63	-14.08	22.07	-21.83	0.23	0.22	-7.61
2,854.00	0.56	125.09	2,853.63	-14.64	22.82	-22.57	0.05	-0.03	-3.36
2,947.00	0.50	126.73	2,946.63	-15.15	23.52	-23.26	0.07	-0.06	1.76
3,041.00	1.49	117.39	3,040.61	-15.95	24.93	-24.66	1.06	1.05	-9.94
3,134.00	2.80	118.73	3,133.54	-17.60	28.00	-27.70	1.41	1.41	1.44
3,227.00	3.88	114.36	3,226.38	-19.99	32.86	-32.51	1.19	1.16	-4.70
3,320.00	4.32	113.74	3,319.15	-22.70	38.93	-38.54	0.48	0.47	-0.67
3,414.00	4.40	112.60	3,412.87	-25.51	45.50	-45.06	0.13	0.09	-1.21
3,506.00	4.51	119.02	3,504.60	-28.62	51.92	-51.43	0.55	0.12	6.98
3,600.00	4.52	121.08	3,598.30	-32.33	58.33	-57.77	0.17	0.01	2.19
3,693.00	4.33	120.31	3,691.03	-35.99	64.49	-63.88	0.21	-0.20	-0.83
3,787.00	4.11	120.14	3,784.77	-39.47	70.47	-69.79	0.23	-0.23	-0.18
3,879.00	4.89	120.55	3,876.49	-43.12	76.70	-75.96	0.85	0.85	0.45
3,973.00	6.45	120.18	3,970.03	-47.81	84.71	-83.89	1.66	1.66	-0.39
4,067.00	7.77	116.77	4,063.30	-53.33	94.95	-94.03	1.47	1.40	-3.63
4,160.00	8.23	116.55	4,155.40	-59.14	106.52	-105.50	0.50	0.49	-0.24
4,253.00	8.01	116.63	4,247.46	-65.02	118.27	-117.15	0.24	-0.24	0.09
4,347.00	7.80	118.41	4,340.57	-70.99	129.73	-128.51	0.34	-0.22	1.89
4,440.00	7.37	119.48	4,432.76	-76.92	140.47	-139.15	0.49	-0.46	1.15
4,534.00	6.82	121.97	4,526.04	-82.85	150.46	-149.03	0.67	-0.59	2.65
4,628.00	6.85	118.28	4,619.37	-88.46	160.13	-158.61	0.47	0.03	-3.93
4,721.00	7.19	116.67	4,711.67	-93.70	170.21	-168.60	0.42	0.37	-1.73
4,815.00	7.24	117.26	4,804.93	-99.05	180.74	-179.03	0.10	0.05	0.63
4,908.00	8.30	117.76	4,897.07	-104.86	191.89	-190.08	1.14	1.14	0.54



Survey Report



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Well: 223H
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Local Co-ordinate Reference: Well 223H
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Survey

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5,002.00	7.95	118.98	4,990.13	-111.17	203.58	-201.66	0.42	-0.37	1.30
5,095.00	7.15	118.61	5,082.32	-117.06	214.28	-212.27	0.86	-0.86	-0.40
5,189.00	6.64	119.62	5,175.64	-122.55	224.14	-222.03	0.56	-0.54	1.07
5,282.00	6.92	120.06	5,267.99	-128.01	233.67	-231.46	0.31	0.30	0.47
5,376.00	6.70	121.78	5,361.33	-133.73	243.23	-240.93	0.32	-0.23	1.83
5,470.00	6.13	122.36	5,454.74	-139.31	252.13	-249.73	0.61	-0.61	0.62
5,563.00	6.18	124.18	5,547.20	-144.78	260.47	-257.97	0.22	0.05	1.96
5,657.00	5.05	121.18	5,640.75	-149.76	268.19	-265.61	1.24	-1.20	-3.19
5,750.00	3.30	124.00	5,733.50	-153.38	273.91	-271.27	1.89	-1.88	3.03
5,844.00	2.98	129.92	5,827.36	-156.46	278.03	-275.34	0.48	-0.34	6.30
5,937.00	1.22	142.17	5,920.29	-158.79	280.49	-277.76	1.94	-1.89	13.17
6,031.00	0.46	171.84	6,014.28	-159.96	281.16	-278.40	0.91	-0.81	31.56
6,124.00	0.30	139.69	6,107.28	-160.51	281.37	-278.61	0.28	-0.17	-34.57
6,218.00	0.16	74.15	6,201.28	-160.66	281.65	-278.89	0.29	-0.15	-69.72
6,311.00	0.51	114.20	6,294.28	-160.80	282.16	-279.39	0.43	0.38	43.06
6,405.00	0.52	45.59	6,388.28	-160.67	282.84	-280.08	0.62	0.01	-72.99
6,499.00	0.53	26.89	6,482.27	-159.99	283.34	-280.59	0.18	0.01	-19.89
6,592.00	0.50	139.86	6,575.27	-159.91	283.80	-281.05	0.92	-0.03	121.47
6,686.00	0.58	155.39	6,669.27	-160.66	284.26	-281.50	0.18	0.09	16.52
6,780.00	0.34	170.26	6,763.26	-161.37	284.51	-281.73	0.28	-0.26	15.82
6,873.00	0.80	139.25	6,856.26	-162.13	284.98	-282.19	0.58	0.49	-33.34
6,967.00	1.33	132.57	6,950.24	-163.36	286.21	-283.40	0.58	0.56	-7.11
7,060.00	0.72	145.11	7,043.23	-164.57	287.34	-284.51	0.70	-0.66	13.48
7,154.00	0.41	175.53	7,137.22	-165.39	287.70	-284.86	0.45	-0.33	32.36
7,247.00	1.12	146.52	7,230.21	-166.48	288.23	-285.37	0.85	0.76	-31.19
7,341.00	0.47	249.29	7,324.21	-167.39	288.38	-285.50	1.39	-0.69	109.33
7,435.00	1.52	287.94	7,418.19	-167.14	286.83	-283.95	1.27	1.12	41.12
7,528.00	1.23	257.29	7,511.17	-166.98	284.68	-281.81	0.84	-0.31	-32.96
7,622.00	1.02	238.60	7,605.15	-167.64	282.99	-280.10	0.45	-0.22	-19.88
7,715.00	0.99	231.87	7,698.13	-168.56	281.65	-278.75	0.13	-0.03	-7.24
7,809.00	0.97	232.07	7,792.12	-169.55	280.38	-277.46	0.02	-0.02	0.21
7,902.00	0.84	233.40	7,885.11	-170.44	279.21	-276.28	0.14	-0.14	1.43
7,996.00	0.90	217.53	7,979.10	-171.44	278.21	-275.26	0.26	0.06	-16.88
8,089.00	0.81	211.08	8,072.09	-172.58	277.43	-274.46	0.14	-0.10	-6.94
8,183.00	0.99	19.88	8,166.08	-172.39	277.36	-274.39	1.91	0.19	179.57
8,276.00	1.14	8.20	8,259.07	-170.72	277.76	-274.83	0.28	0.16	-12.56
8,370.00	0.70	4.78	8,353.06	-169.22	277.94	-275.03	0.47	-0.47	-3.64
8,464.00	0.25	65.10	8,447.05	-168.56	278.18	-275.28	0.66	-0.48	64.17
8,557.00	0.96	98.53	8,540.05	-168.59	279.13	-276.23	0.82	0.76	35.95
8,651.00	0.76	106.61	8,634.04	-168.89	280.51	-277.60	0.25	-0.21	8.60
8,745.00	0.82	134.28	8,728.03	-169.53	281.59	-278.67	0.41	0.06	29.44
8,838.00	1.00	129.44	8,821.02	-170.51	282.69	-279.76	0.21	0.19	-5.20
8,932.00	1.22	106.53	8,915.00	-171.32	284.28	-281.34	0.52	0.23	-24.37

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Wellbore:	OH / 63722	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	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)
9,025.00	1.20	107.36	9,007.98	-171.89	286.16	-283.21	0.03	-0.02	0.89
9,119.00	0.23	136.67	9,101.97	-172.32	287.23	-284.27	1.07	-1.03	31.18
9,213.00	0.28	245.62	9,195.97	-172.55	287.15	-284.18	0.44	0.05	115.90
9,306.00	0.18	202.57	9,288.97	-172.78	286.89	-283.92	0.21	-0.11	-46.29
9,400.00	0.54	172.16	9,382.97	-173.36	286.89	-283.91	0.42	0.38	-32.35
9,493.00	1.07	150.12	9,475.96	-174.55	287.39	-284.38	0.65	0.57	-23.70
9,587.00	1.35	154.73	9,569.94	-176.31	288.30	-285.26	0.32	0.30	4.90
9,618.00	1.30	160.10	9,600.93	-176.97	288.57	-285.53	0.43	-0.16	17.32
9,685.00	0.83	166.33	9,667.92	-178.15	288.94	-285.88	0.72	-0.70	9.30
9,732.00	3.90	284.23	9,714.88	-178.09	287.47	-284.41	9.26	6.53	250.85
9,778.00	9.12	294.84	9,760.57	-176.18	282.65	-279.62	11.60	11.35	23.07
9,825.00	15.60	287.42	9,806.46	-172.71	273.23	-270.26	14.17	13.79	-15.79
9,872.00	20.63	282.26	9,851.12	-169.06	259.09	-256.19	11.22	10.70	-10.98
9,919.00	26.82	275.11	9,894.13	-166.36	240.42	-237.56	14.50	13.17	-15.21
9,966.00	32.66	272.70	9,934.93	-164.81	217.17	-214.34	12.68	12.43	-5.13
10,013.00	40.21	271.98	9,972.71	-163.69	189.30	-186.50	16.09	16.06	-1.53
10,059.00	45.49	273.37	10,006.43	-162.21	158.06	-155.29	11.66	11.48	3.02
10,106.00	50.97	271.53	10,037.72	-160.74	123.06	-120.31	12.02	11.66	-3.91
10,153.00	52.69	269.10	10,066.77	-160.54	86.11	-83.38	5.47	3.66	-5.17
10,200.00	54.47	268.47	10,094.68	-161.35	48.30	-45.56	3.94	3.79	-1.34
10,246.00	55.22	268.31	10,121.16	-162.41	10.71	-7.95	1.66	1.63	-0.35
10,293.00	55.07	268.05	10,148.02	-163.63	-27.84	30.61	0.55	-0.32	-0.55
10,340.00	58.13	265.30	10,173.90	-165.92	-67.00	69.80	8.14	6.51	-5.85
10,387.00	61.23	265.64	10,197.62	-169.12	-107.44	110.29	6.63	6.60	0.72
10,488.00	66.99	267.29	10,241.70	-174.69	-198.09	201.02	5.89	5.70	1.63
10,534.00	75.13	267.27	10,256.62	-176.76	-241.51	244.48	17.70	17.70	-0.04
10,579.00	82.37	267.80	10,265.40	-178.65	-285.58	288.57	16.13	16.09	1.18
10,625.00	84.51	270.82	10,270.65	-179.20	-331.26	334.26	8.01	4.65	6.57
10,671.00	84.98	270.84	10,274.86	-178.53	-377.07	380.04	1.02	1.02	0.04
10,717.00	85.86	271.31	10,278.54	-177.67	-422.91	425.86	2.17	1.91	1.02
10,763.00	86.53	271.68	10,281.59	-176.48	-468.79	471.72	1.66	1.46	0.80
10,809.00	88.04	271.84	10,283.77	-175.06	-514.72	517.61	3.30	3.28	0.35
10,854.00	88.96	271.91	10,284.95	-173.59	-559.68	562.54	2.05	2.04	0.16
10,947.00	89.38	271.71	10,286.29	-170.66	-652.62	655.42	0.50	0.45	-0.22
11,039.00	89.02	271.89	10,287.58	-167.77	-744.57	747.31	0.44	-0.39	0.20
11,133.00	92.86	275.02	10,286.04	-162.11	-838.35	840.98	5.27	4.09	3.33
11,227.00	89.47	268.86	10,284.12	-158.93	-932.22	934.78	7.48	-3.61	-6.55
11,322.00	90.08	267.62	10,284.50	-161.85	-1,027.17	1,029.77	1.45	0.64	-1.31
11,416.00	93.44	267.77	10,281.61	-165.62	-1,121.04	1,123.69	3.58	3.57	0.16
11,511.00	93.42	268.40	10,275.93	-168.79	-1,215.82	1,218.51	0.66	-0.02	0.66
11,606.00	93.26	266.74	10,270.39	-172.81	-1,310.57	1,313.31	1.75	-0.17	-1.75
11,701.00	93.47	266.50	10,264.82	-178.41	-1,405.24	1,408.06	0.34	0.22	-0.25
11,795.00	90.08	265.93	10,261.90	-184.61	-1,498.97	1,501.89	3.66	-3.61	-0.61
11,890.00	94.70	268.08	10,257.94	-189.57	-1,593.73	1,596.72	5.36	4.86	2.26

Company:	Matador Resources	Local Co-ordinate Reference:	Well 223H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB=29' @ 3117.50usft (Patterson 297)
Site:	David Edelstein State Com 12-24S-27E RB	MD Reference:	KB=29' @ 3117.50usft (Patterson 297)
Well:	223H	North Reference:	Grid
Wellbore:	OH / 63722	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	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)
11,985.00	93.19	267.71	10,251.41	-193.05	-1,688.44	1,691.47	1.64	-1.59	-0.39
12,079.00	92.27	267.51	10,246.93	-196.97	-1,782.25	1,785.33	1.00	-0.98	-0.21
12,173.00	96.28	268.05	10,239.92	-200.60	-1,875.90	1,879.03	4.30	4.27	0.57
12,268.00	96.25	268.62	10,229.56	-203.34	-1,970.29	1,973.46	0.60	-0.03	0.60
12,362.00	96.99	270.49	10,218.72	-204.07	-2,063.66	2,066.82	2.13	0.79	1.99
12,456.00	92.72	270.46	10,210.77	-203.29	-2,157.29	2,160.43	4.54	-4.54	-0.03
12,551.00	98.32	270.94	10,201.63	-202.14	-2,251.81	2,254.91	5.92	5.89	0.51
12,646.00	94.28	271.41	10,191.21	-200.20	-2,346.19	2,349.25	4.28	-4.25	0.49
12,741.00	93.89	277.51	10,184.43	-192.83	-2,440.62	2,443.54	6.42	-0.41	6.42
12,836.00	94.85	278.45	10,177.20	-179.68	-2,534.43	2,537.11	1.41	1.01	0.99
12,930.00	90.78	278.34	10,172.58	-165.98	-2,627.29	2,629.72	4.33	-4.33	-0.12
13,023.00	84.99	279.22	10,176.01	-151.80	-2,719.09	2,721.28	6.30	-6.23	0.95
13,118.00	86.89	276.30	10,182.74	-139.01	-2,812.97	2,814.93	3.66	2.00	-3.07
13,213.00	88.96	272.03	10,186.18	-132.12	-2,907.63	2,909.46	4.99	2.18	-4.49
13,309.00	90.36	270.83	10,186.75	-129.72	-3,003.60	3,005.37	1.92	1.46	-1.25
13,403.00	92.18	270.80	10,184.67	-128.39	-3,097.56	3,099.29	1.94	1.94	-0.03
13,498.00	93.96	269.46	10,179.58	-128.17	-3,192.42	3,194.13	2.34	1.87	-1.41
13,593.00	92.80	266.51	10,173.98	-131.51	-3,287.18	3,288.94	3.33	-1.22	-3.11
13,689.00	90.78	263.09	10,170.98	-140.20	-3,382.72	3,384.61	4.14	-2.10	-3.56
13,784.00	94.17	265.06	10,166.87	-150.00	-3,477.11	3,479.15	4.13	3.57	2.07
13,879.00	89.97	265.50	10,163.44	-157.81	-3,571.70	3,573.87	4.45	-4.42	0.46
13,973.00	91.96	267.44	10,161.86	-163.60	-3,665.50	3,667.75	2.96	2.12	2.06
14,068.00	93.53	269.34	10,157.31	-166.27	-3,760.35	3,762.63	2.59	1.65	2.00
14,162.00	89.80	266.48	10,154.58	-169.69	-3,854.22	3,856.54	5.00	-3.97	-3.04
14,258.00	90.45	267.42	10,154.37	-174.80	-3,950.08	3,952.48	1.19	0.68	0.98
14,352.00	92.27	267.86	10,152.14	-178.67	-4,043.97	4,046.42	1.99	1.94	0.47
14,447.00	89.78	266.66	10,150.44	-183.21	-4,138.84	4,141.35	2.91	-2.62	-1.26
14,541.00	91.68	266.01	10,149.24	-189.22	-4,232.63	4,235.23	2.14	2.02	-0.69
14,636.00	88.26	263.81	10,149.29	-197.65	-4,327.24	4,329.97	4.28	-3.60	-2.32
14,731.00	96.03	268.44	10,145.74	-204.06	-4,421.86	4,424.68	9.52	8.18	4.87
14,825.00	96.12	268.10	10,135.79	-206.89	-4,515.29	4,518.15	0.37	0.10	-0.36
14,919.00	96.48	269.23	10,125.47	-209.06	-4,608.69	4,611.57	1.25	0.38	1.20
15,014.00	93.36	269.97	10,117.33	-209.72	-4,703.33	4,706.21	3.37	-3.28	0.78
15,109.00	90.20	267.91	10,114.38	-211.48	-4,798.25	4,801.14	3.97	-3.33	-2.17
15,201.00	88.57	264.57	10,115.36	-217.51	-4,890.03	4,893.01	4.04	-1.77	-3.63
15,295.00	88.77	264.90	10,117.55	-226.13	-4,983.61	4,986.72	0.41	0.21	0.35
15,389.00	94.51	266.24	10,114.86	-233.39	-5,077.24	5,080.47	6.27	6.11	1.43
15,484.00	94.12	266.13	10,107.71	-239.69	-5,171.77	5,175.09	0.43	-0.41	-0.12
15,580.00	91.06	263.53	10,103.37	-248.34	-5,267.26	5,270.71	4.18	-3.19	-2.71
15,674.00	92.41	265.50	10,100.52	-257.32	-5,360.78	5,364.37	2.54	1.44	2.10
15,768.00	90.62	263.66	10,098.04	-266.19	-5,454.32	5,458.05	2.73	-1.90	-1.96
15,863.00	90.78	262.31	10,096.88	-277.79	-5,548.60	5,552.51	1.43	0.17	-1.42
15,957.00	88.69	258.66	10,097.31	-293.33	-5,641.28	5,645.45	4.47	-2.22	-3.88



Survey Report



Company: Matador Resources
Project: Eddy County, NM (NAD27 NME)
Site: David Edelstein State Com 12-24S-27E RB
Well: 223H
Wellbore: OH / 63722
Design: Surveys (Patterson 297)

Local Co-ordinate Reference: Well 223H
TVD Reference: KB=29' @ 3117.50usft (Patterson 297)
MD Reference: KB=29' @ 3117.50usft (Patterson 297)
North Reference: Grid
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)
16,052.00	90.98	259.55	10,097.59	-311.28	-5,734.56	5,739.02	2.59	2.41	0.94
16,146.00	88.66	259.40	10,097.88	-328.45	-5,826.97	5,831.71	2.47	-2.47	-0.16
16,241.00	88.66	261.05	10,100.10	-344.58	-5,920.56	5,925.56	1.74	0.00	1.74
16,336.00	90.73	264.23	10,100.61	-356.74	-6,014.76	6,019.95	3.99	2.18	3.35
16,430.00	92.07	267.75	10,098.31	-363.31	-6,108.49	6,113.77	4.01	1.43	3.74
16,524.00	92.30	271.09	10,094.73	-364.27	-6,202.40	6,207.69	3.56	0.24	3.55
16,619.00	90.45	270.08	10,092.45	-363.30	-6,297.36	6,302.62	2.22	-1.95	-1.06
16,714.00	89.52	271.39	10,092.47	-362.08	-6,392.35	6,397.58	1.69	-0.98	1.38
16,809.00	91.32	271.81	10,091.78	-359.43	-6,487.31	6,492.47	1.95	1.89	0.44
16,904.00	91.51	272.17	10,089.43	-356.13	-6,582.22	6,587.32	0.43	0.20	0.38
16,998.00	90.64	273.12	10,087.67	-351.79	-6,676.10	6,681.11	1.37	-0.93	1.01
17,093.00	90.34	273.84	10,086.85	-346.02	-6,770.93	6,775.82	0.82	-0.32	0.76
17,188.00	88.13	274.44	10,088.12	-339.17	-6,865.66	6,870.43	2.41	-2.33	0.63
17,282.00	89.94	276.67	10,089.71	-330.07	-6,959.20	6,963.80	3.06	1.93	2.37
17,378.00	92.41	277.33	10,087.74	-318.37	-7,054.45	7,058.84	2.66	2.57	0.69
17,473.00	93.14	278.33	10,083.14	-305.45	-7,148.46	7,152.61	1.30	0.77	1.05
Final Phoenix MWD Survey - OH									
17,543.00	93.14	278.33	10,079.30	-295.32	-7,217.61	7,221.59	0.00	0.00	0.00
Projection to TD - OH									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
135.00	135.00	-0.01	0.16	First Phoenix MWD Survey
17,473.00	10,083.14	-305.45	-7,148.46	Final Phoenix MWD Survey - OH
17,543.00	10,079.30	-295.32	-7,217.61	Projection to TD - OH

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

RECEIVED

FEB 04 2019

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

DISTRICT II-ARTESIA O.C.D.

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name DAVID EDELSTEIN STATE COM 12-24S-27E RB	⁶ Well Number #223H
⁷ GRID No.	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 3089'

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	12	24-S	27-E	-	2076'	SOUTH	330'	EAST	EDDY

¹¹Bottom 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
L	11	24-S	27-E	-	1980'	SOUTH	240'	WEST	EDDY

¹² Dedicated Acres 320	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=550906 Y=447325 LAT.: N 32.2297065 LONG.: W 104.1687059 NAD 1983 X=592089 Y=447383 LAT.: N 32.2298265 LONG.: W 104.1692023	LAST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=550996 Y=447327 LAT.: N 32.2297119 LONG.: W 104.1684148 NAD 1983 X=592179 Y=447385 LAT.: N 32.2298320 LONG.: W 104.1689112	FIRST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=560995 Y=447564 LAT.: N 32.2303177 LONG.: W 104.1360773 NAD 1983 X=602178 Y=447623 LAT.: N 32.2304383 LONG.: W 104.1365724	SURFACE LOCATION NEW MEXICO EAST NAD 1927 X=560995 Y=447660 LAT.: N 32.2305816 LONG.: W 104.1360772 NAD 1983 X=602178 Y=447719 LAT.: N 32.2307021 LONG.: W 104.1365723	¹⁷OPERATOR 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 _____ Date _____ Printed Name _____ E-mail Address _____
¹⁸SURVEYOR 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. 05/05/2018 Date of Survey Signature and Seal of Professional Surveyor MICHAEL J. BROWN NEW MEXICO 18329 PROFESSIONAL SURVEYOR Certificate Number _____				

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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

FEB 04 2019

DISTRICT II-ARTESIA O.C.D.

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name DAVID EDELSTEIN STATE COM 12-24S-27E RB	⁶ Well Number #223H
⁷ GRID No.	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 3089'

¹⁰Surface Location

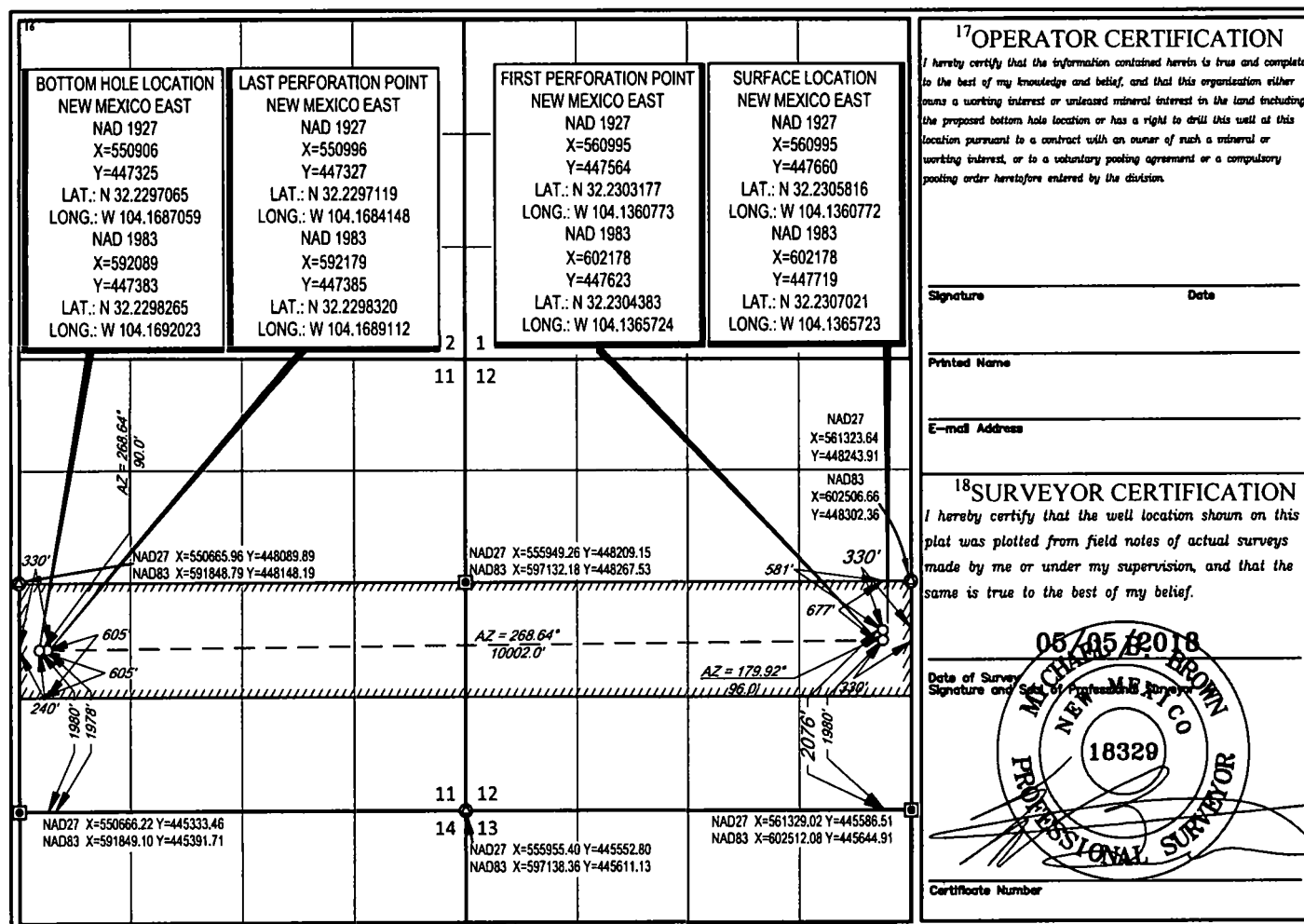
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	12	24-S	27-E	-	2076'	SOUTH	330'	EAST	EDDY

¹¹Bottom 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
L	11	24-S	27-E	-	1980'	SOUTH	240'	WEST	EDDY

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.



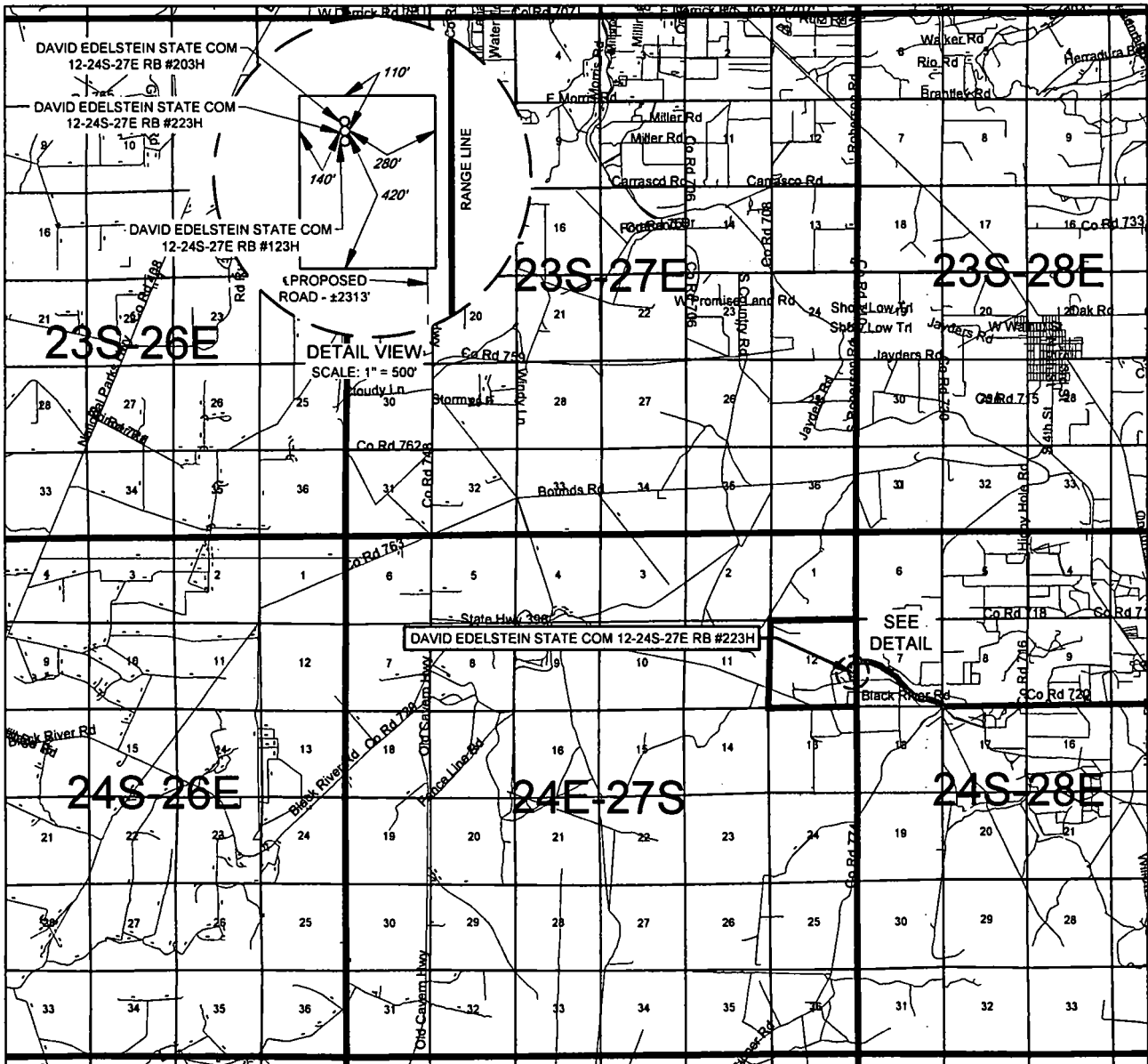


SECTION 12 TWP 24-S RGE 27-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM ELEVATION 3089'
DESCRIPTION 2076' FSL & 330' FEL



1400 EVERMAN PARKWAY, Ste. 148 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 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.: DAVID EDELSTEIN STATE COM 12-24S-27E RB #223H

SECTION 12 TWP 24-S RGE 27-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM
 DESCRIPTION 2076' FSL & 330' FEL

DISTANCE & DIRECTION

FROM INT. OF NM-285 & BLACK RIVER VILLAGE RD. GO WEST ON
 BLACK RIVER VILLAGE RD. ±3.6 MILES, THENCE NORTH (RIGHT) ON
 PROPOSED RD. ±2313 FEET TO A POINT ±491 FEET SOUTHEAST 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.

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.



SCALE: 1" = 10000'
 0' 5000' 10000'



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
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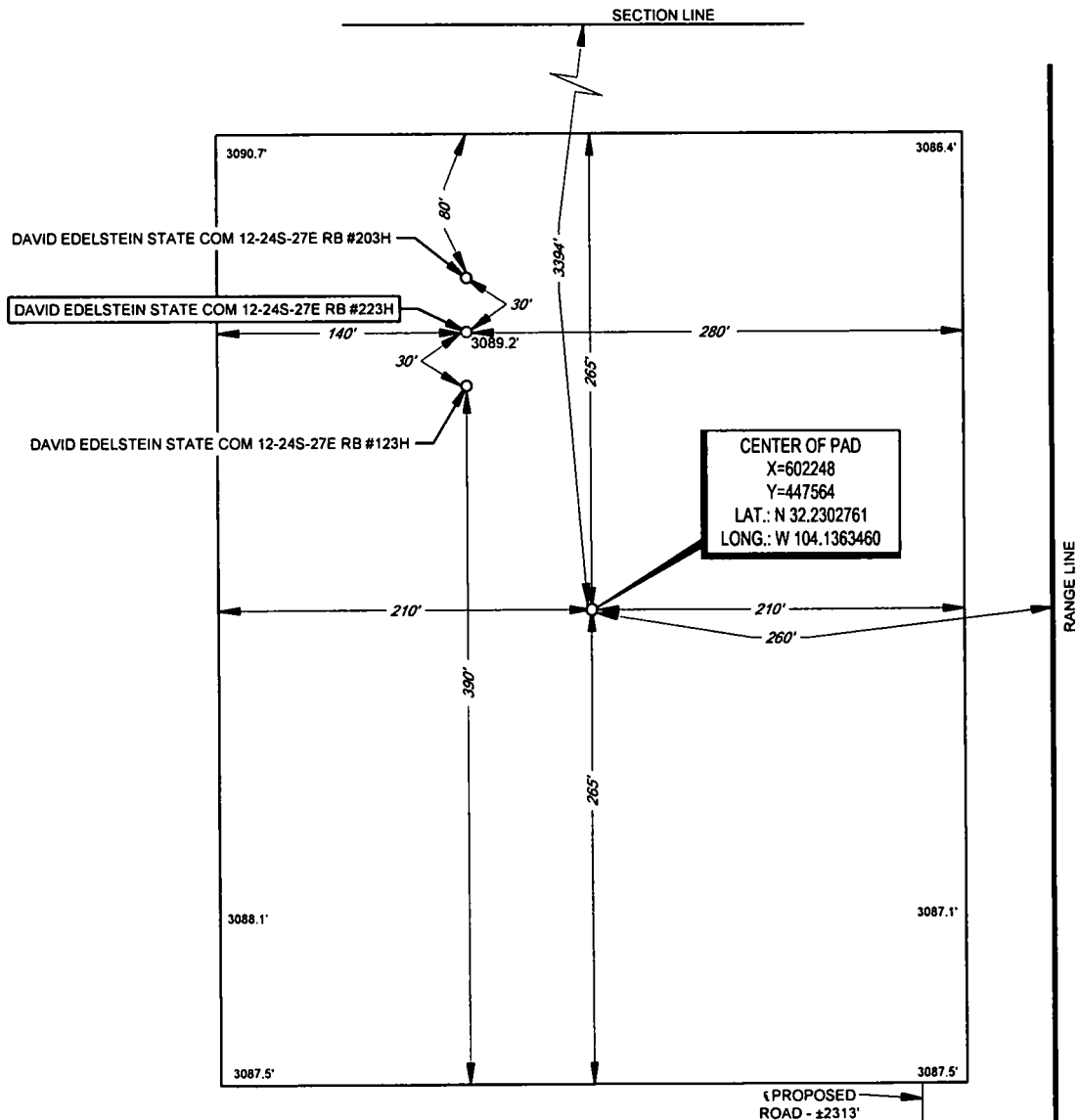
Matador
PRODUCTION COMPANY





SECTION 12, TOWNSHIP 24-S, RANGE 27-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'



LEASE NAME & WELL NO.: DAVID EDELSTEIN STATE COM 12-24S-27E RB #223H
#223H LATITUDE N 32.2307021 #223H LONGITUDE W 104.1365723

LEGEND

RANGE LINE

CENTER OF PAD IS 3394' FNL & 260' FEL

SCALE: 1" = 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.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"

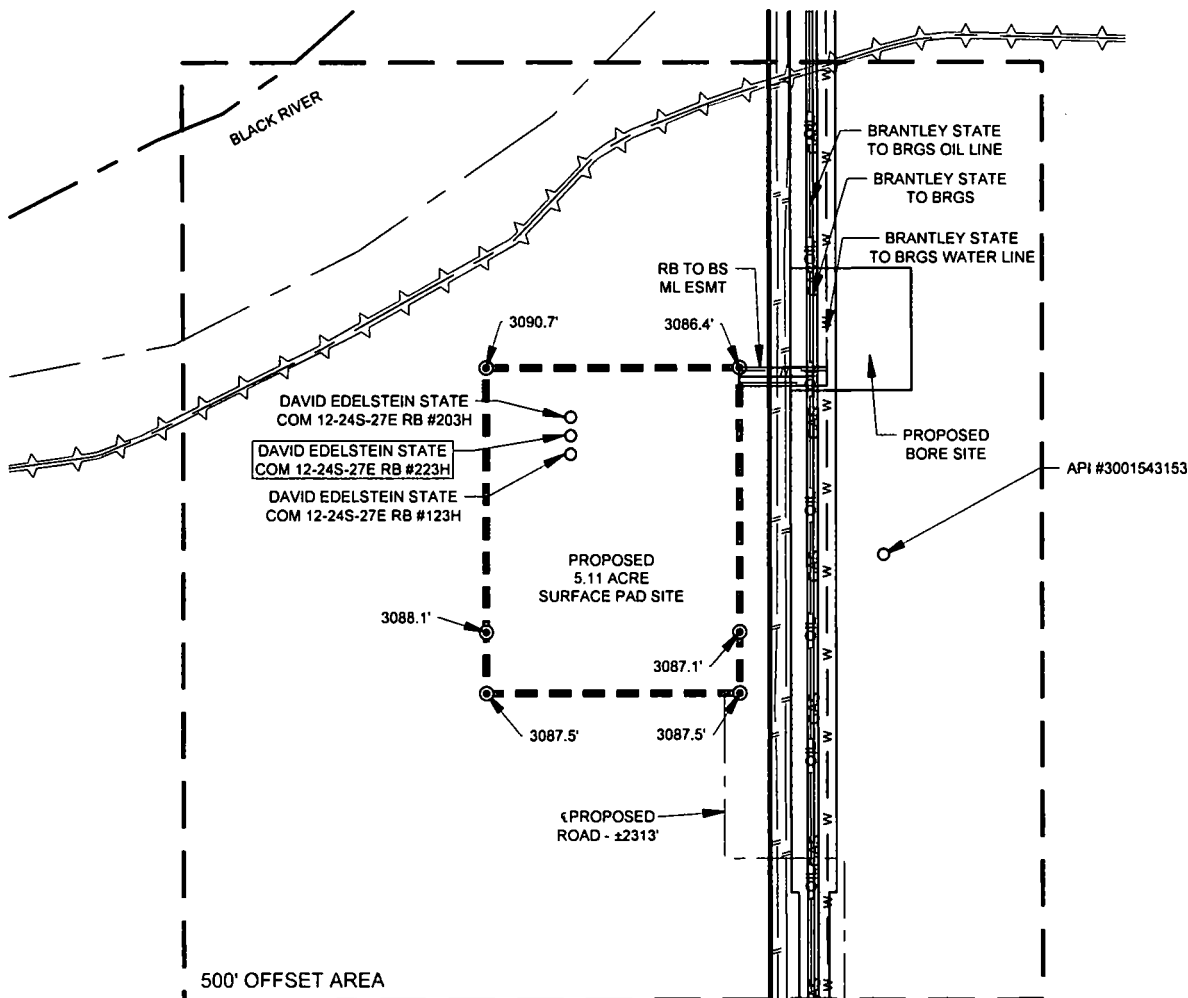


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SCALE: 1" = 300'

0' 150' 300'

SECTION 12, TOWNSHIP 24-S, RANGE 27-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



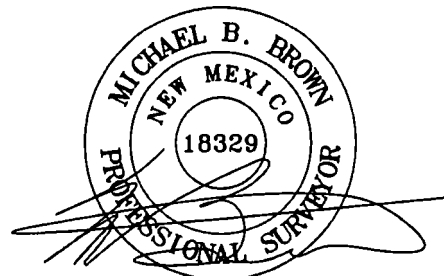
LEGEND

- SURVEY/SECTION LINE
- - - PROPOSED SITE
- - - 500' PROXIMITY
- == EXISTING PIPELINE
- == ROAD WAY
- W WATER LINE
- - - CENTERLINE OF DITCH
- - - TOP OF DITCH
- GAS GAS LINE
- OIL OIL LINE
- ⊙ IRON ROD SET



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Michael Blake Brown, P.S. No. 18329
JULY 24, 2018

DAVID EDELSTEIN STATE
COM 12-24S-27E RB #223H
PROXIMITY MAP

REVISION:

INT	DATE
JLS	07/06/2018
JDR	07/12/2018

DATE: 05/09/18

FILE: LO_DAVI EDDELSTEIN STATE COM 223H_REV2

DRAWN BY: EAH

SHEET: 7 OF 7

NOTES:

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