

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
NMOCD-REC'D: 8/27/2020
Revised August 1, 2011

Submit one copy to appropriate
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT (AS DRILLED)

¹ API Number 30-015-46446	² Pool Code 98220	³ Pool Name PURPLE SAGE;WOLFCAMP (GAS)
⁴ Property Code 326434	⁵ Property Name RAY STATE COM	⁶ Well Number 224H
⁷ OGRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 2962'

¹⁰Surface Location

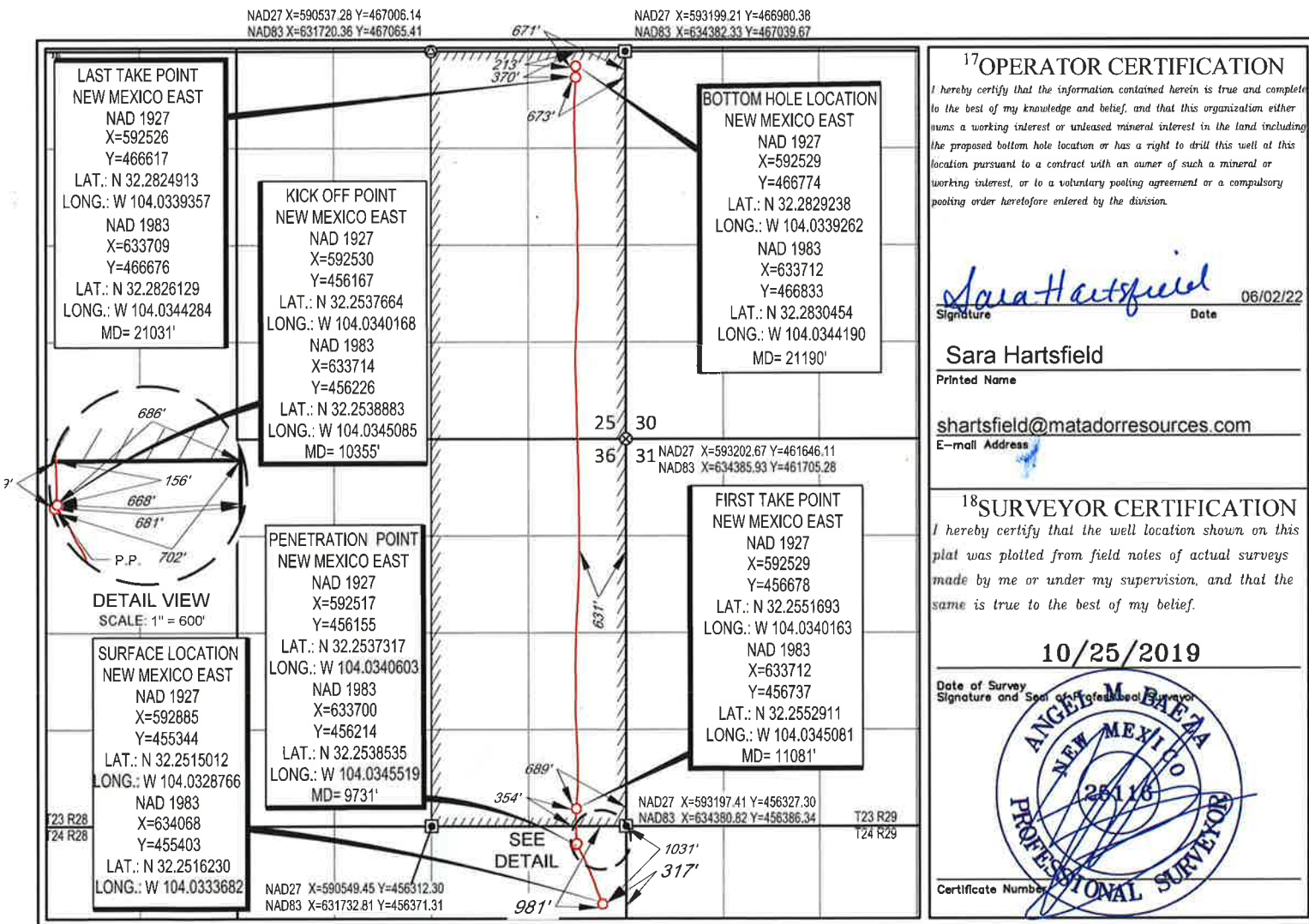
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	1	24-S	28-E	-	981'	NORTH	317'	EAST	EDDY

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
A	25	23-S	28-E	-	213'	NORTH	671'	EAST	EDDY

¹² Dedicated Acres 640	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.



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



SECTION 1, TOWNSHIP 24-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

FND. BRASS CAP,
U.S. G.L.O. SUR.



LAST TAKE POINT
NEW MEXICO EAST
NAD 1927
X=592526
Y=466617
LAT.: N 32.2824913
LONG.: W 104.0339357
NAD 1983
X=633709
Y=466676
LAT.: N 32.2826129
LONG.: W 104.0344284
MD= 21031'

60D NAIL
FOUND

23 24
26 25

S 89°26'46" E
5324.18'

671'

213'

370'

673'

BOTTOM HOLE LOCATION
NEW MEXICO EAST
NAD 1927
X=592529
Y=466774
LAT.: N 32.2829238
LONG.: W 104.0339262
NAD 1983
X=633712
Y=466833
LAT.: N 32.2830454
LONG.: W 104.0344190
MD= 21190'

KICK OFF POINT
NEW MEXICO EAST
NAD 1927
X=592530
Y=456167
LAT.: N 32.2537664
LONG.: W 104.0340168
NAD 1983
X=633714
Y=456226
LAT.: N 32.2538883
LONG.: W 104.0345085
MD= 10355'

COTTON
SPINDLE
FOUND

26 25
35 36

S 89°37'24" W
5247.88'

60D NAIL
FOUND

25 30

36 31

631'

631'

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DETAIL VIEW
SCALE: 1" = 600'

1/2" IRON ROD
FOUND

26 25
35 36

S 89°34'06" E
5314.61'

689'

354'

981'

317'

1031'

1031'

1031'

1031'

1031'

1031'

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SURFACE LOCATION
NEW MEXICO EAST
NAD 1927
X=592885
Y=455344
LAT.: N 32.2515012
LONG.: W 104.0328766
NAD 1983
X=634068
Y=455403
LAT.: N 32.2516230
LONG.: W 104.0333682

PENETRATION POINT
NEW MEXICO EAST
NAD 1927
X=592517
Y=456155
LAT.: N 32.2537317
LONG.: W 104.0340603
NAD 1983
X=633700
Y=456214
LAT.: N 32.2538535
LONG.: W 104.0345519
MD= 9731'

FIRST TAKE POINT
NEW MEXICO EAST
NAD 1927
X=592529
Y=456678
LAT.: N 32.2551693
LONG.: W 104.0340163
NAD 1983
X=633712
Y=456737
LAT.: N 32.2552911
LONG.: W 104.0345081
MD= 11081'

FND. BRASS CAP,
U.S. G.L.O. SUR.
1942

35 36
2 1

S 89°40'41" W
2647.40'

FND. BRASS CAP,
U.S. G.L.O. SUR.
1942

35 36
2 1

S 89°40'29" W
2648.05'

FND. BRASS CAP,
U.S. G.L.O. SUR.
1942

35 36
2 1

S 89°40'29" W
2648.05'

FND. BRASS CAP,
U.S. G.L.O. SUR.
1942

35 36
2 1

S 89°40'29" W
2648.05'

FND. BRASS CAP,
U.S. G.L.O. SUR.
1942

35 36
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S 89°40'29" W
2648.05'

FND. BRASS CAP,
U.S. G.L.O. SUR.
1942

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2 1

S 89°40'29" W
2648.05'

FND. BRASS CAP,
U.S. G.L.O. SUR.
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S 89°40'29" W
2648.05'

FND. BRASS CAP,
U.S. G.L.O. SUR.
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S 89°40'29" W
2648.05'

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U.S. G.L.O. SUR.
1942

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S 89°40'29" W
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U.S. G.L.O. SUR.
1942

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S 89°40'29" W
2648.05'

FND. BRASS CAP,
U.S. G.L.O. SUR.
1942

35 36
2 1

S 89°40'29" W
2648.05'

FND. BRASS CAP,
U.S. G.L.O. SUR.
1942

35 36
2 1

LEASE NAME & WELL NO.: RAY STATE COM 224H
SECTION 1 TWP 24-S RGE 28-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 981' FNL & 317' FEL

DISTANCE & DIRECTION

FROM INT. OF NM-387 & STATE HWY 285. GO SOUTH ON STATE HWY 285. ±4.8
MILES, THENCE EAST (LEFT) ON DUARTE RD. ±0.8 MILES, THENCE NORTH (LEFT) ON
HARROUN RD. ±2.7 MILES, THENCE NORTH (LEFT) PROPOSED RD. ±2943 FEET TO A
POINT ±445 FEET WEST OF THE LOCATION.



Angel M. Baeza, P.S. No. 25116

MARCH 20, 2020

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.



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • 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



I Andrew Meadville certify that I am employed by VES Survey International. That I did on the day(s) of 01/01/20 through 01/01/20 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 2,675.00 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Vaughn Energy Services, that I am authorized and qualified to make this report; that this survey was conducted at the request of Matador Production Company for the Ray State Com Well # 224H API # 30-015-46446 in Eddy County / Parish New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by VES Survey International.

A handwritten signature in black ink, appearing to read "A. Meadville", followed by a horizontal line.

Andrew Meadville
Service Technician
VES Survey International



Company: MATADOR PRODUCTION COMPANY

Lease/Well: RAY STATE COM/224H

API: 30-015-46446

Rig Name: PATTERSON 282

State/County: NEW MEXICO/EDDY

Latitude: 32.25, Longitude: -104.03

GRID North is 0.16 Degrees East of True North

VS-Azi: 0.00 Degrees



Depth Reference : RKB 28 FEET

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: msgyro_run01-01-de_01.ut

Minimum Curvature Method

Report Date/Time: 1/7/2020 / 11:18

VES Survey International
Midland, TX

432-563-5444

Surveyor: Andrew Meadville

Ray State Com 224H / API: 30-015-46446

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
65.40	0.31	259.63	65.40	-0.03	-0.18	-0.03	0.18	259.63	0.48
158.60	0.73	323.52	158.60	0.40	-0.78	0.40	0.88	297.05	0.70
251.80	1.27	353.66	251.78	1.90	-1.25	1.90	2.28	326.73	0.79
345.00	1.48	25.57	344.96	4.01	-0.84	4.01	4.10	348.14	0.84
438.20	1.83	55.33	438.12	5.94	0.90	5.94	6.01	8.58	0.98
531.40	1.56	82.45	531.28	6.96	3.38	6.96	7.73	25.88	0.90
624.60	1.41	118.39	624.45	6.58	5.64	6.58	8.66	40.62	0.99
717.80	1.29	155.27	717.63	5.08	7.09	5.08	8.72	54.38	0.92
811.00	1.25	112.56	810.81	3.74	8.46	3.74	9.25	66.17	0.99
904.20	1.28	69.78	903.99	3.71	10.38	3.71	11.02	70.34	0.99
997.40	1.35	29.26	997.16	5.03	11.89	5.03	12.91	67.09	0.98
1090.60	1.06	306.75	1090.35	6.50	11.74	6.50	13.42	61.04	1.72
1183.80	1.09	220.40	1183.54	6.34	10.48	6.34	12.24	58.84	1.57
1277.00	1.23	250.17	1276.72	5.32	8.97	5.32	10.43	59.30	0.65
1370.20	2.12	305.99	1369.88	6.00	6.63	6.00	8.94	47.88	1.88
1463.40	3.13	317.29	1462.98	8.88	3.51	8.88	9.55	21.59	1.21
1556.60	4.65	327.46	1555.97	13.93	-0.24	13.93	13.94	359.00	1.79
1649.80	5.04	337.28	1648.84	20.89	-3.86	20.89	21.25	349.54	0.98
1743.00	5.92	340.43	1741.61	29.20	-7.05	29.20	30.04	346.43	1.00

Depth FT	Angle Deg	Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Section FT	Distance FT	Direction Deg	Severity Deg/100
1836.20	6.45	339.00	1834.27	38.62	-10.53	38.62	40.03	344.74	0.59
1929.40	8.16	335.97	1926.71	49.55	-15.10	49.55	51.80	343.05	1.88
2022.60	8.28	332.16	2018.95	61.53	-20.93	61.53	64.99	341.21	0.60
2115.80	8.17	329.48	2111.19	73.17	-27.43	73.17	78.14	339.45	0.43
2209.00	7.90	334.06	2203.48	84.63	-33.60	84.63	91.06	338.35	0.75
2302.20	7.37	332.80	2295.85	95.71	-39.13	95.71	103.40	337.76	0.59
2395.40	7.06	338.05	2388.31	106.34	-44.01	106.34	115.09	337.52	0.78
2488.60	6.73	339.19	2480.84	116.76	-48.09	116.76	126.27	337.62	0.38
2581.80	7.00	337.61	2573.37	127.11	-52.19	127.11	137.41	337.68	0.35
2675.00	7.90	335.38	2665.78	138.18	-57.02	138.18	149.48	337.58	1.02

HORIZONTAL DISPLACEMENT IS
149.48 FEET AT 337.58 DEGREES



7821 Will Rogers Blvd.
Fort Worth, Texas 76140
817.568.1038 (office)
817.568.1499 (fax)
www.msdir.com

MS Directional Survey Data Certification

MS Directional Job Number: MSMO-73001
Survey Type: MWD
Operating Company: Matador Production Company
Well Name & Number: Ray State COM #224H
Location: Eddy County, NM
API Number: 30-015-46446
Tie In Depth: 2,675' MD
Surveyed Depths: 2,853' – 21,140' MD
Projected TD Survey: 21,190' MD
Dates Performed: 12/30/2019 – 03/18/2020

I certify that the data is true, correct and complete and within the limitations of the tool set forth by MS Directional; that I am authorized and qualified to make this report and that I have reviewed this report and find it conforms to the principles and procedures as set forth by MS Directional.

Matt Richmond

Digitally signed by:

MWD Surveyor Name: William Richmond

Date: 04-02-2020

Email: William.Richmond@msdir.com

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V09.04.02

SURVEY CALCULATION PROGRAM

3/31/20 16:51

Company: Matador Production Company

Well Name: Ray State COM #224H

Location: Eddy County, NM

Rig: Patterson #282

Job Number: MSMO-73001

API #: 30-015-46446

Vertical Section Azimuth: 0.01

Proposed Direction: 0.01

Survey Calculation Method: MD

21,190

Inc

Degrees

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MS Directional

V09.04.02

SURVEY CALCULATION PROGRAM

3/31/20 16:51

Company: Matador Production Company

Well Name: Ray State COM #224H

Location: Eddy County, NM

Rig: Patterson #282

Job Number: MSMO-73001

API #: 30-015-46446

Vertical Section Azimuth: 0.01

Survey Calculation Method: Minimum Curvature

PTB: MD 21,190

Magnetic Declination: 6.82

Proposed Direction: 0.01

REFERENCED TO GRID NORTH

#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	Minimum Curvature		Surface Vert Sec	Closure		DLS/ 100	BUR/ 100'
					INC	AZM		E/W	Distance		
34	9,072	1.30	186.60	9013.62	817.75	-359.36	817.68	893.22	336.28	0.32	0.32
35	9,261	1.10	215.40	9202.58	814.14	-360.66	814.07	890.45	336.11	0.33	-0.11
36	9,449	1.40	249.10	9390.54	811.85	-363.85	811.78	889.65	335.86	0.41	0.16
37	9,637	1.40	251.20	9578.49	810.29	-368.17	810.22	890.01	335.56	0.03	0.00
38	9,825	1.40	64.90	9766.47	810.52	-368.27	810.46	890.26	335.57	1.49	0.00
39	10,014	1.70	92.80	9955.40	811.36	-363.37	811.30	889.02	335.87	0.42	0.16
40	10,074	1.80	92.80	10015.37	811.27	-361.54	811.21	888.19	335.98	0.17	0.17
41	10,166	2.00	96.30	10107.32	811.03	-358.51	810.96	886.73	336.15	0.25	0.22
42	10,261	2.30	8.70	10202.28	812.73	-356.57	812.67	887.51	336.31	3.14	0.32
43	10,308	6.10	11.50	10249.14	816.11	-355.93	816.05	890.35	336.44	8.09	8.09
44	10,355	11.00	7.80	10295.60	823.00	-354.82	822.94	896.23	336.68	10.49	10.43
45	10,450	21.90	0.30	10386.59	849.78	-353.49	849.72	920.38	337.41	11.67	11.47
46	10,544	35.40	358.80	10468.89	894.74	-353.97	894.68	962.22	338.42	14.38	14.36
47	10,638	42.60	357.50	10541.89	953.83	-355.94	953.76	1018.07	339.54	7.71	7.66
48	10,733	52.30	357.20	10606.06	1023.65	-359.18	1023.59	1084.84	340.66	10.21	10.21
49	10,827	56.90	358.30	10660.50	1100.19	-362.17	1100.13	1158.27	341.78	4.99	4.89
50	10,922	63.30	0.00	10707.83	1182.49	-363.35	1182.43	1237.06	342.92	6.91	6.74
51	11,016	71.70	3.00	10743.78	1269.21	-361.01	1269.15	1319.56	344.12	9.41	8.94
52	11,065	81.10	5.10	10755.29	1316.66	-357.63	1316.60	1364.37	344.80	19.63	19.18
53	11,111	82.40	5.30	10761.89	1362.00	-353.51	1361.94	1407.13	345.45	2.86	2.83
54	11,205	82.40	4.70	10774.32	1454.82	-345.39	1454.76	1495.26	346.64	0.63	0.00
55	11,300	82.90	3.50	10786.48	1548.80	-338.65	1548.74	1585.39	347.67	1.36	0.53
56	11,394	87.60	0.40	10794.26	1642.38	-335.47	1642.32	1676.29	348.46	5.98	5.00
57	11,488	90.50	0.80	10795.82	1736.35	-334.49	1736.29	1768.28	349.10	3.11	3.09
58	11,582	89.70	0.10	10795.65	1830.35	-333.75	1830.29	1860.53	349.67	1.13	-0.85
59	11,677	87.40	358.70	10798.06	1925.30	-334.74	1925.25	1954.19	350.14	2.83	-2.42
60	11,776	86.60	358.50	10803.24	2024.14	-337.16	2024.08	2052.03	350.54	0.83	-0.81
61	11,870	85.20	357.60	10809.96	2117.84	-340.35	2117.78	2145.01	350.87	1.77	-1.49
62	11,965	88.00	357.10	10815.59	2212.56	-344.73	2212.50	2239.26	351.14	2.99	2.95
63	12,059	87.10	356.20	10819.61	2306.31	-350.22	2306.25	2332.75	351.37	1.35	-0.96
64	12,153	89.10	357.80	10822.73	2400.12	-355.14	2400.06	2426.26	351.58	2.72	2.13
65	12,247	89.50	355.70	10823.88	2493.96	-360.47	2493.90	2519.88	351.78	2.27	0.43
66	12,342	89.90	359.60	10824.38	2588.86	-364.36	2588.80	2614.38	351.99	4.13	0.42
67	12,436	89.00	359.50	10825.28	2682.85	-365.10	2682.79	2707.58	352.25	0.96	-0.96

Page 2



V09.04.02

SURVEY CALCULATION PROGRAM

3/31/20 16:51

Company:	Matador Production Company		
Well Name:	Ray State COM #224H		
Location:	Eddy County, NM		
Rig:	Patterson #282		
Job Number:	MSMO-73001		
API #:	30-015-46446		

REFERENCED TO GRID NORTH

Magnetic Declination: 6.82

Proposed Direction: 0.01

Vertical Section Azimuth: 0.01

Survey Calculation Method: Minimum Curvature

PTB:	MD		Inc	INC		AZM		TVD		N/S		E/W		Surface		Closure		VS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	Depth	Degrees		Feet	Degrees	Feet	N/S	Feet	E/W	Feet	Vert Sec	Distance	Azm	DLS/	BUR/																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
#	Feet	Degrees	Degrees	Azm	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet	Feet



V09.04.02

SURVEY CALCULATION PROGRAM

3/31/20 16:51

Company: Matador Production Company

Well Name: Ray State COM #224H

Location: Eddy County, NM

Rig: Patterson #282

Job Number: MSMO-73001

API #: 30-015-46446

Vertical Section Azimuth: 0.01

Survey Calculation Method: Minimum Curvature

PTB: 21,190

MD 21,190

Inc 21,190

Degrees 21,190

Azimuth 21,190

TVD 21,190

Feet 21,190

N/S 21,190

Feet 21,190

N/S 21,190

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Feet 21,190

N/S 21,190

Feet 21,190

N/S 21,190

Magnetic Declination: 6.82

REFERENCED TO GRID NORTH

Proposed Direction: 0.01

Minimum Curvature

PTB: 21,190

MD 21,190

Inc 21,190

Degrees 21,190

Azimuth 21,190

TVD 21,190

Feet 21,190

N/S 21,190

Feet 21,190

N/S 21,190

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Feet 21,190

N/S 21,190

#	Depth Feet	Inc Degrees	Azimuth Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Distance	Closure Azimuth	DLS/ 100'	VS 100'
101	15,644	88.80	358.90	10816.51	5888.63	-323.39	5888.58	5897.51	356.86	0.89	-0.63
102	15,738	89.90	357.90	10817.57	5982.59	-326.02	5982.53	5991.47	356.88	1.58	1.17
103	15,832	90.10	358.10	10817.57	6076.53	-329.30	6076.47	6085.45	356.90	0.30	0.21
104	15,927	89.40	357.10	10817.99	6171.45	-333.28	6171.39	6180.44	356.91	1.28	-0.74
105	16,021	92.30	359.50	10816.59	6265.38	-336.06	6265.32	6274.38	356.93	4.00	3.09
106	16,115	91.10	359.00	10813.81	6359.33	-337.29	6359.27	6368.26	356.96	1.38	-1.28
107	16,210	88.80	357.90	10813.89	6454.28	-339.86	6454.22	6463.22	356.99	2.68	-2.42
108	16,304	89.50	358.10	10815.28	6548.21	-343.14	6548.15	6557.20	357.00	0.77	0.74
109	16,398	90.90	359.30	10814.95	6642.19	-345.28	6642.13	6651.15	357.02	1.96	1.49
110	16,493	90.30	358.70	10813.96	6737.17	-346.93	6737.10	6746.09	357.05	0.89	-0.63
111	16,587	91.70	359.10	10812.32	6831.13	-348.74	6831.07	6840.03	357.08	1.55	1.49
112	16,681	91.40	358.80	10809.78	6925.08	-350.46	6925.02	6933.94	357.10	0.45	-0.32
113	16,775	90.90	358.10	10807.89	7019.03	-353.00	7018.96	7027.90	357.12	0.92	-0.53
114	16,870	90.10	357.00	10807.06	7113.93	-357.06	7113.87	7122.89	357.13	1.43	-0.84
115	16,964	90.10	359.00	10806.90	7207.87	-360.34	7207.81	7216.87	357.14	2.13	0.00
116	17,058	89.50	357.00	10807.22	7301.81	-363.62	7301.74	7310.86	357.15	2.22	-0.64
117	17,153	89.10	0.80	10808.39	7396.77	-365.45	7396.70	7405.79	357.17	4.02	-0.42
118	17,247	88.60	359.40	10810.27	7490.74	-365.28	7490.68	7499.65	357.21	1.58	-0.53
119	17,342	89.80	2.20	10811.60	7585.71	-363.96	7585.65	7594.44	357.25	3.21	1.26
120	17,436	90.10	3.40	10811.68	7679.60	-359.37	7679.54	7688.00	357.32	1.32	0.32
121	17,530	89.90	2.00	10811.68	7773.49	-354.94	7773.43	7781.59	357.39	1.50	-0.21
122	17,624	90.20	1.10	10811.60	7867.46	-352.39	7867.40	7875.35	357.44	1.01	0.32
123	17,719	89.90	3.00	10811.52	7962.39	-349.00	7962.33	7970.04	357.49	2.02	-0.32
124	17,813	91.00	6.90	10810.78	8056.02	-340.89	8055.96	8063.23	357.58	4.31	1.17
125	17,907	89.90	1.50	10810.04	8149.73	-334.01	8149.67	8156.57	357.65	5.86	-1.17
126	18,002	89.10	1.50	10810.87	8244.69	-331.52	8244.63	8251.35	357.70	0.84	-0.84
127	18,096	89.00	2.30	10812.43	8338.63	-328.40	8338.57	8345.09	357.74	0.86	-0.11
128	18,190	91.10	0.20	10812.34	8432.59	-326.35	8432.54	8438.91	357.78	3.16	2.23
129	18,285	90.60	0.00	10810.94	8527.58	-326.19	8527.53	8533.82	357.81	0.57	-0.53
130	18,379	90.20	0.20	10810.28	8621.58	-326.02	8621.52	8627.74	357.83	0.48	-0.43
131	18,474	89.70	358.90	10810.36	8716.57	-326.77	8716.52	8722.70	357.85	1.47	-0.53
132	18,568	88.90	358.10	10811.51	8810.53	-329.23	8810.48	8816.68	357.86	1.20	-0.85
133	18,663	89.40	358.10	10812.92	8905.47	-332.38	8905.41	8911.67	357.86	0.53	0.53



V09.04.02

SURVEY CALCULATION PROGRAM

3/31/20 16:51

Company:	Matador Production Company		
Well Name:	Ray State COM #224H		
Location:	Eddy County, NM		
Rig:	Patterson #282		
Job Number:	MSMO-73001		
API #:	30-015-46446		

REFERENCED TO GRID NORTH

Magnetic Declination: 6.82

Proposed Direction: 0.01

Vertical Section Azimuth: 0.01

Survey Calculation Method: Minimum Curvature

PTB:	MD		INC		AZM		TVD		N/S		E/W		Surface		Closure		VS	
	21,190		90.40		0.90				Feet		Feet		Vert Sec		Distance		100'	100'

#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Distance	Azm	DLS/ 100	BUR/ 100'
134	18,757	90.40	358.20	10813.08	8999.42	-335.41	8999.36	9005.67	357.87	1.07	1.06
135	18,851	90.70	0.40	10812.18	9093.40	-336.56	9093.34	9099.63	357.88	2.36	0.32
136	18,946	90.00	1.20	10811.60	9188.39	-335.24	9188.33	9194.50	357.91	1.12	-0.74
137	19,041	91.30	2.30	10810.52	9283.34	-332.34	9283.28	9289.28	357.95	1.79	1.37
138	19,135	91.00	359.40	10808.64	9377.30	-330.94	9377.24	9383.14	357.98	3.10	-0.32
139	19,230	87.90	357.60	10809.55	9472.25	-333.43	9472.19	9478.11	357.98	3.77	-3.26
140	19,325	92.20	356.60	10809.47	9567.10	-338.23	9567.04	9573.08	357.98	4.65	4.53
141	19,421	89.60	353.60	10807.96	9662.72	-346.43	9662.66	9668.93	357.95	4.13	-2.71
142	19,516	90.70	357.30	10807.71	9757.40	-353.97	9757.34	9763.82	357.92	4.06	1.16
143	19,611	92.80	0.20	10804.81	9852.32	-356.04	9852.26	9858.75	357.93	3.77	2.21
144	19,705	92.40	358.90	10800.54	9946.22	-356.78	9946.15	9952.61	357.95	1.45	-0.43
145	19,799	91.90	358.80	10797.02	10040.13	-358.66	10040.07	10046.53	357.95	0.54	-0.53
146	19,894	92.00	358.40	10793.78	10135.05	-360.98	10134.98	10141.47	357.96	0.43	0.11
147	19,988	91.20	357.70	10791.16	10228.95	-364.18	10228.89	10235.44	357.96	1.13	-0.85
148	20,082	91.00	358.00	10789.35	10322.87	-367.70	10322.81	10329.42	357.96	0.38	-0.21
149	20,177	90.90	358.50	10787.78	10417.81	-370.60	10417.75	10424.40	357.96	0.54	-0.11
150	20,272	90.50	357.80	10786.62	10512.76	-373.67	10512.69	10519.40	357.96	0.85	-0.42
151	20,367	89.50	358.80	10786.62	10607.71	-376.49	10607.65	10614.39	357.97	1.49	-1.05
152	20,462	89.60	1.80	10787.36	10702.70	-375.99	10702.63	10709.30	357.99	3.16	0.11
153	20,557	89.30	0.20	10788.28	10797.67	-374.33	10797.61	10804.16	358.01	1.71	-0.32
154	20,651	88.40	358.70	10790.16	10891.65	-375.24	10891.58	10898.11	358.03	1.86	-0.96
155	20,745	91.90	4.20	10789.92	10985.57	-372.86	10985.50	10991.89	358.06	6.93	3.72
156	20,840	91.70	3.50	10786.93	11080.30	-366.48	11080.24	11086.36	358.11	0.77	-0.21
157	20,935	91.10	2.20	10784.61	11175.16	-361.76	11175.09	11181.01	358.15	1.51	-0.63
158	21,029	90.60	0.90	10783.22	11269.11	-359.22	11269.05	11274.83	358.17	1.48	-0.53
159	21,123	90.40	0.90	10782.40	11363.09	-357.74	11363.03	11368.72	358.20	0.21	-0.21
160	21,140	90.40	0.90	10782.28	11380.09	-357.48	11380.03	11385.71	358.20	0.00	0.00
PTB:	21,190	90.40	0.90	10781.93	11430.08	-356.69	11430.02	11435.65	358.21	0.00	0.00

Intent ☐ As Drilled ☒

API #
30-015-46446

Operator Name:
MATADOR PRODUCTION COMPANY

Property Name:
RAY STATE COM

Well Number
224H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
1	1	24S	28E		668	E	156	N	EDDY
Latitude					Longitude			NAD	
32.2538883					-104.0345085			83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	36	23S	28E	16	354	S	689	E	EDDY
Latitude					Longitude			NAD	
32.2552911					-104.0345081			83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	25	23S	28E	1	673	E	370	N	EDDY
Latitude					Longitude			NAD	
32.2826129					-104.0344284			83	

Is this well the defining well for the Horizontal Spacing Unit?

☐ Y

Is this well an infill well?

☐ N

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:

Property Name:

Well Number

KZ 06/29/2018