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

EMNRD-OCD ARTESIA
REC'D: 8/03/2020

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	[2]Pool Code	[3]Pool Name
30-015-46449	98220	PURPLE SAGE;WOLFCAMP (GAS)

[4]Property Code	[5]Property Name	[6]Well Number
326434	RAY STATE COM	204H

[7]OGRID No.	[8]Operator Name	[9]Elevation
228937	MATADOR PRODUCTION COMPANY	2962'

[10]Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	1	24-S	28-E	–	953'	NORTH	298'	EAST	EDDY

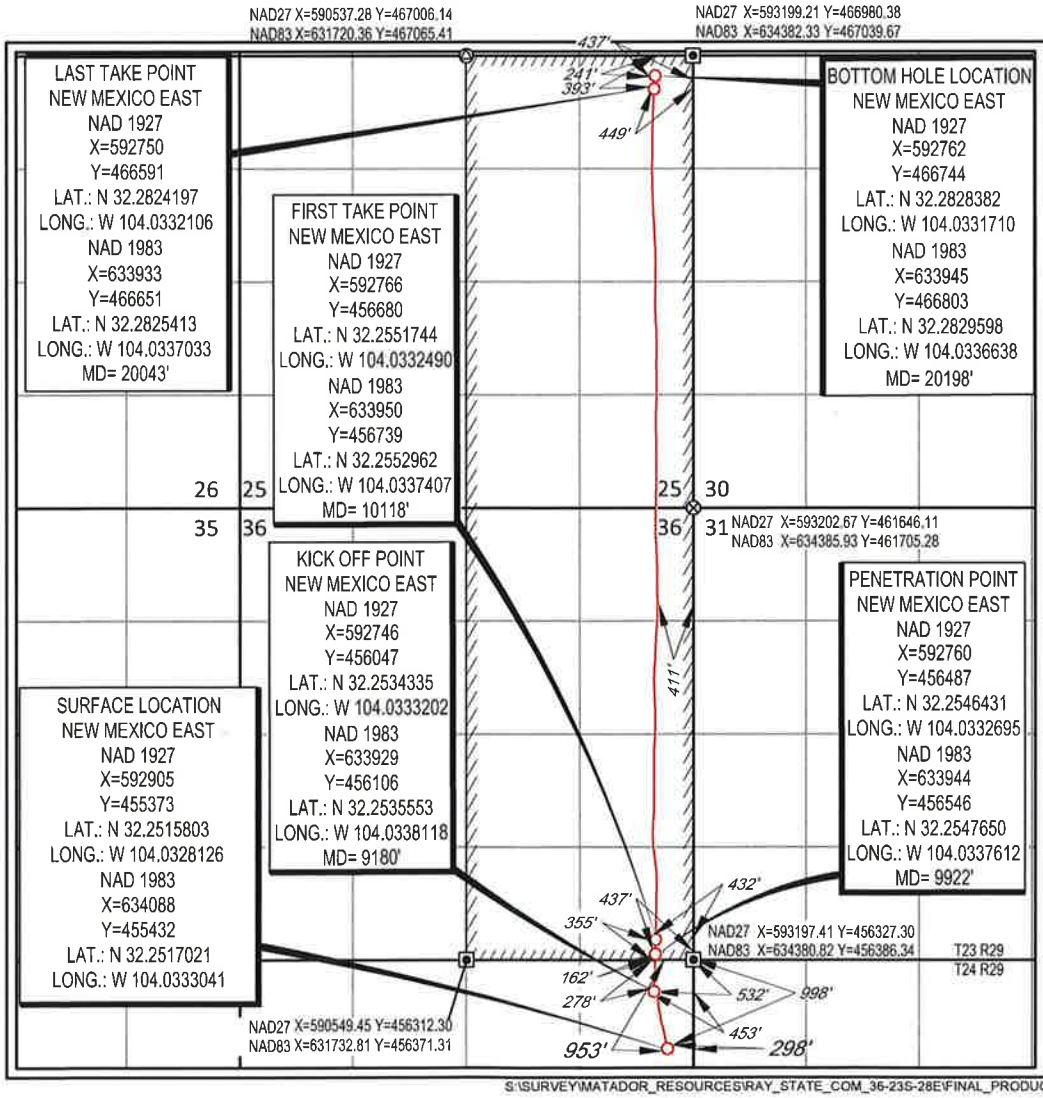
[11]Bottom Hole Location If Different From Surface

SL

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	–	241'	NORTH	437'	EAST	EDDY

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
640			

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.



[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.

Sara Hartsfield — 06/22/20
Signature — Date

Sara Hartsfield
Printed Name

shartsfield@matadorresources.com
E-mail Address

[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.

10/25/2019
Date of Survey
Signature and Seal of Professional Surveyor

ANGEL M. BAEZA — NEW MEXICO — 25116 — PROFESSIONAL SURVEYOR

Certificate Number

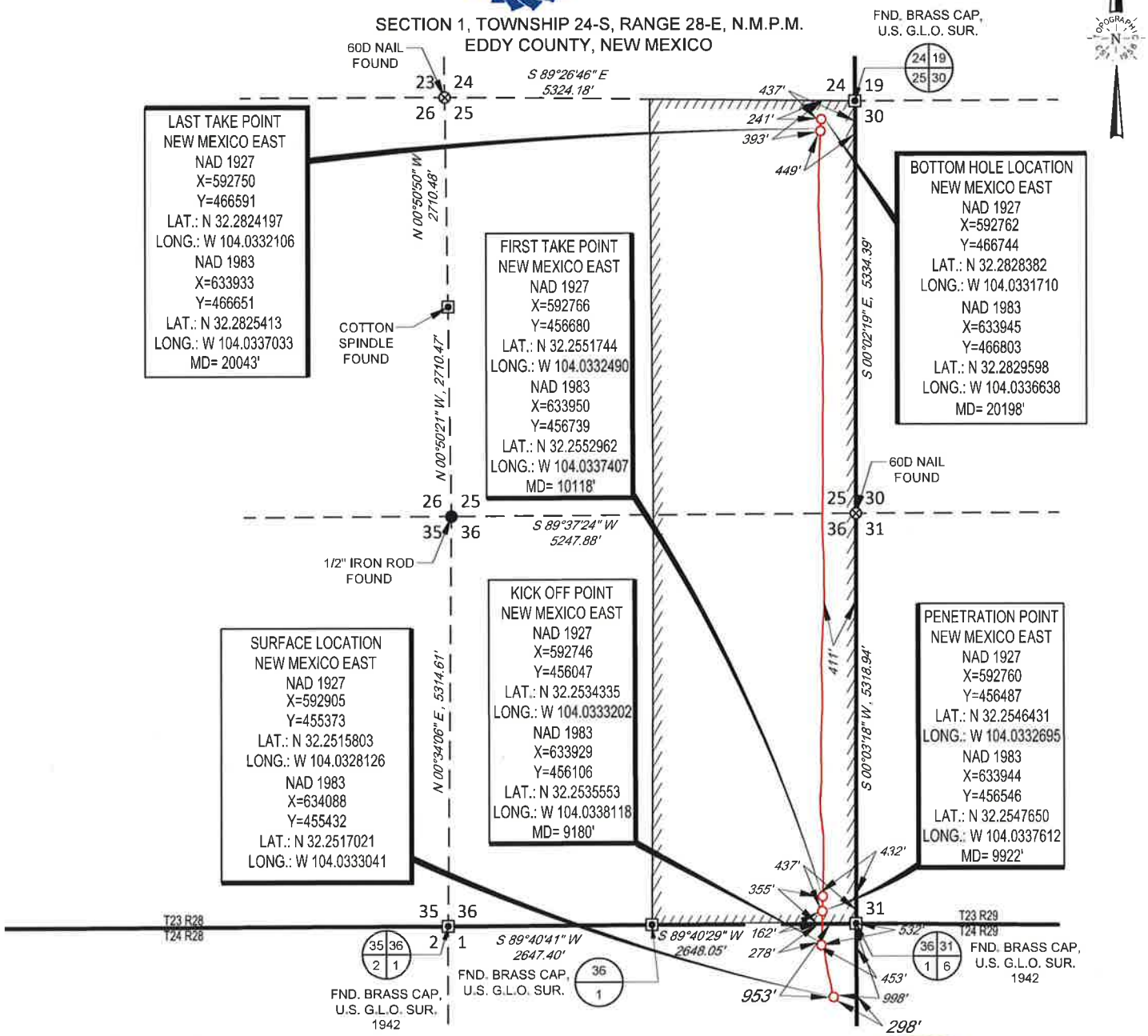
S:\SURVEY\MATADOR_RESOURCES\RAY_STATE_COM_36-23S-28E\FINAL_PRODUCTS\AD_RAY_STATE_COM_204H.DWG 6/16/2020 10:27:28 AM jrichardson

SCALE: 1" = 2000'

0' 1000' 2000'

Matador PRODUCTION COMPANY

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



LEASE NAME & WELL NO.: RAY STATE COM 204H

SECTION 1 TWP 24-S RGE 28-E SURVEY N.M.P.M.

COUNTY EDDY STATE NM

DESCRIPTION 953' FNL & 298' FEL

DISTANCE & DIRECTION

FROM INT. OF NM-31 & STATE HWY 387, GO SOUTH ON STATE HWY 387, ±2.0 MILES, THENCE CONTINUING ON STATE HWY 387 EAST (LEFT) ±1.0 MILES, THENCE SOUTH (RIGHT) ON GIOVENGO RD. ±1.0 MILES, THENCE EAST (LEFT) ON RABBIT HILL RD. ±0.5 MILES, THENCE SOUTHEAST (RIGHT) ON LEASE RD. ±0.9 MILES, THENCE SOUTHEAST (LEFT) ON PROPOSED RD. ±647 FEET TO A POINT ±356 FEET NORTHEAST OF THE LOCATION.

ANGEL M. BAEZA NEW MEXICO 25116 PROFESSIONAL SURVEYOR

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

VES SURVEY INTERNATIONAL

I Christopher Hair certify that I am employed by VES Survey International. That I did on the day(s) of 12/29/19 through 12/29/19 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 2,673.00 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 # 204H API # 30-015-46449 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.

Christopher Hair
Service Technician
VES Survey International

Company: MATADOR PRODUCTION COMPANY
Lease/Well: Ray State Com/204H
API : 30-015-46449
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: 359.57 Degrees

Depth Reference : RKB = 28 FEET

DRILLOG MS GYRO SURVEY CALCULATIONS
Filename: msgyro_run01-01-de_01.ut
Minimum Curvature Method
Report Date/Time: 1/2/2020 / 10:32

VES Survey International
Midland, TX
(432) 563-5444
Surveyor: Christopher Hair
Ray State Com 204H / API: 30-015-46449

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	****
63.12	0.59	328.75	63.12	0.28	-0.17	0.28	0.32	328.75	0.93
156.33	1.42	318.52	156.31	1.55	-1.18	1.56	1.95	322.70	0.91
249.54	1.94	308.78	249.48	3.40	-3.18	3.43	4.65	316.97	0.64
342.75	2.05	311.27	342.64	5.49	-5.66	5.53	7.88	314.13	0.15
435.96	2.26	308.23	435.78	7.73	-8.35	7.79	11.38	312.76	0.26
529.17	2.01	322.65	528.93	10.16	-10.79	10.24	14.82	313.29	0.63
622.38	1.81	338.32	622.09	12.83	-12.33	12.93	17.80	316.16	0.60
715.59	1.86	350.98	715.25	15.70	-13.11	15.79	20.45	320.13	0.44
808.80	1.19	5.87	808.43	18.15	-13.25	18.25	22.47	323.88	0.82
902.01	1.12	7.41	901.62	20.03	-13.03	20.12	23.89	326.95	0.08
995.22	1.38	11.71	994.80	22.04	-12.68	22.13	25.42	330.08	0.30
1088.43	1.97	354.56	1087.97	24.74	-12.61	24.83	27.76	332.99	0.83
1181.64	3.07	349.65	1181.09	28.79	-13.21	28.89	31.67	335.36	1.20
1274.85	4.20	348.42	1274.11	34.59	-14.34	34.69	37.44	337.48	1.22
1368.06	4.82	349.35	1367.03	41.78	-15.75	41.89	44.65	339.34	0.67
1461.27	5.65	352.88	1459.86	50.18	-17.04	50.30	52.99	341.24	0.95
1554.48	6.91	353.94	1552.50	60.31	-18.20	60.44	62.99	343.20	1.36
1647.69	7.02	357.70	1645.03	71.57	-19.02	71.71	74.06	345.12	0.50
1740.90	7.03	353.55	1737.54	82.93	-19.89	83.07	85.28	346.51	0.54

VES Survey Date: 12/28/2019

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
1834.11	6.80	354.32	1830.07	94.09	-21.08	94.24	96.42	347.37	0.26
1927.32	6.62	350.63	1922.64	104.88	-22.50	105.04	107.26	347.89	0.50
2020.53	6.52	348.79	2015.24	115.37	-24.40	115.55	117.92	348.06	0.25
2113.74	6.27	349.68	2107.87	125.56	-26.34	125.76	128.30	348.15	0.29
2206.95	6.14	348.33	2200.54	135.45	-28.26	135.66	138.37	348.21	0.21
2300.16	7.22	349.75	2293.11	146.09	-30.31	146.32	149.20	348.28	1.18
2393.37	6.95	347.27	2385.61	157.35	-32.60	157.59	160.69	348.30	0.44
2486.58	6.88	347.57	2478.14	168.30	-35.04	168.56	171.91	348.24	0.08
2579.79	7.12	346.97	2570.66	179.39	-37.55	179.66	183.27	348.18	0.27
2673.00	6.84	349.58	2663.18	190.47	-39.85	190.77	194.60	348.18	0.46

HORIZONTAL DISPLACEMENT IS
194.60 FEET AT 348.18 DEGREES

VES Survey Date: 12/28/2019

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-73000
Survey Type:	MWD
Operating Company:	Matador Production Company
Well Name & Number:	Ray State COM #204H
Location:	Eddy County, NM
API Number:	30-015-46449
Tie In Depth:	2,673' MD
Surveyed Depths:	2,853' – 20,147' MD
Projected TD Survey:	20,198' MD
Dates Performed:	12/26/2019 – 01/27/2020

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.

Digitally signed by:	Matt Richmond
MWD Surveyor Name:	William Richmond
Date:	04-05-2020
Email:	William.Richmond@msdir.com

MS Directional

V09.04.02

SURVEY CALCULATION PROGRAM

3/31/20 15:40

Company:	Matador Production Company		
Well Name:	Ray State COM #204H		
Location:	Eddy County, NM		
Rig:	Patterson #282	Magnetic Declination:	6.82
Job Number:	MSMO-73000		
API #:	30-015-46449		
Vertical Section Azimuth:	0.01	Proposed Direction:	0.01
Survey Calculation Method:	Minimum Curvature		

REFERENCED TO GRID NORTH

PTB:	MD	INC	AZM	TVD	N/S	E/W	VS
	20,198	91.50	5.50	9740.19	11370.78	-142.92	11370.75

#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance	Closure Azm	DLS/ 100	BUR/ 100'
TIE IN	2,673	6.84	349.58	2663.18	190.47	-39.85		194.59	348.18		
1	2,853	6.00	348.70	2842.05	210.24	-43.63	210.23	214.72	348.28	0.47	-0.47
2	3,042	8.60	346.10	3029.50	233.65	-48.96	233.64	238.72	348.16	1.39	1.38
3	3,231	8.30	342.80	3216.45	260.39	-56.39	260.38	266.43	347.78	0.30	-0.16
4	3,420	7.90	340.80	3403.57	285.69	-64.70	285.68	292.93	347.24	0.26	-0.21
5	3,608	7.30	349.30	3589.92	309.63	-71.16	309.62	317.70	347.06	0.68	-0.32
6	3,796	6.50	349.00	3776.56	331.81	-75.41	331.80	340.27	347.20	0.43	-0.43
7	3,985	7.80	356.20	3964.09	355.11	-78.30	355.10	363.64	347.57	0.83	0.69
8	4,174	7.40	353.50	4151.43	380.00	-80.53	379.99	388.44	348.03	0.28	-0.21
9	4,361	6.10	346.00	4337.13	401.61	-84.30	401.59	410.36	348.15	0.84	-0.70
10	4,550	8.80	345.90	4524.52	425.38	-90.25	425.36	434.85	348.02	1.43	1.43
11	4,738	8.50	344.30	4710.38	452.70	-97.51	452.69	463.09	347.84	0.20	-0.16
12	4,926	8.80	356.40	4896.26	480.43	-102.18	480.42	491.18	347.99	0.98	0.16
13	5,114	7.60	354.20	5082.33	507.15	-104.34	507.14	517.78	348.37	0.66	-0.64
14	5,301	7.10	350.70	5267.79	530.86	-107.45	530.84	541.63	348.56	0.36	-0.27
15	5,489	8.10	354.80	5454.14	555.52	-110.53	555.50	566.41	348.75	0.60	0.53
16	5,678	7.90	355.10	5641.30	581.72	-112.85	581.70	592.57	349.02	0.11	-0.11
17	5,865	7.30	355.70	5826.66	606.37	-114.84	606.35	617.15	349.28	0.32	-0.32
18	6,054	8.30	352.80	6013.91	631.88	-117.45	631.86	642.70	349.47	0.57	0.53
19	6,243	6.30	344.30	6201.37	655.40	-121.96	655.38	666.65	349.46	1.20	-1.06
20	6,431	5.60	339.20	6388.36	673.91	-128.01	673.88	685.96	349.24	0.47	-0.37
21	6,620	3.90	324.80	6576.71	687.78	-134.99	687.76	700.90	348.90	1.09	-0.90
22	6,809	0.60	9.50	6765.55	694.01	-138.54	693.99	707.70	348.71	1.85	-1.75
23	6,997	2.50	238.10	6953.49	692.81	-141.85	692.79	707.19	348.43	1.56	1.01
24	7,186	3.90	233.40	7142.19	686.80	-150.51	686.78	703.10	347.64	0.75	0.74
25	7,374	0.80	24.50	7330.07	684.18	-155.11	684.16	701.55	347.23	2.46	-1.65
26	7,563	0.90	79.70	7519.05	685.65	-153.10	685.62	702.54	347.41	0.42	0.05
27	7,752	1.10	161.40	7708.03	684.20	-151.06	684.17	700.67	347.55	0.70	0.11
28	7,942	1.00	102.40	7898.00	682.11	-148.86	682.09	698.17	347.69	0.55	-0.05
29	8,129	0.80	308.90	8084.99	682.58	-148.28	682.56	698.50	347.74	0.94	-0.11
30	8,317	0.90	234.30	8272.98	682.54	-150.50	682.52	698.94	347.57	0.55	0.05
31	8,507	1.30	209.50	8462.94	679.80	-152.77	679.77	696.75	347.33	0.32	0.21
32	8,601	2.10	212.30	8556.90	677.41	-154.22	677.39	694.75	347.17	0.86	0.85
33	8,695	0.60	180.80	8650.87	675.47	-155.15	675.44	693.05	347.06	1.72	-1.60

MS Directional

V09.04.02

SURVEY CALCULATION PROGRAM

3/31/20 15:40

Company:	Matador Production Company				
Well Name:	Ray State COM #204H				
Location:	Eddy County, NM				
Rig:	Patterson #282	Magnetic Declination:	6.82	REFERENCED TO GRID NORTH	
Job Number:	MSMO-73000				
API #:	30-015-46449				
Vertical Section Azimuth:	0.01	Proposed Direction:	0.01		
Survey Calculation Method:	Minimum Curvature				

PTB:	MD	INC	AZM	TVD	N/S	E/W	VS
	20,198	91.50	5.50	9740.19	11370.78	-142.92	11370.75

#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance	Closure Azm	DLS/ 100	BUR/ 100'
34	8,790	1.50	231.80	8745.86	674.20	-156.13	674.17	692.04	346.96	1.28	0.95
35	8,884	0.30	343.80	8839.85	673.67	-157.17	673.65	691.77	346.87	1.74	-1.28
36	8,978	0.20	245.60	8933.85	673.84	-157.38	673.82	691.98	346.85	0.41	-0.11
37	9,072	0.40	252.70	9027.85	673.68	-157.85	673.65	691.92	346.81	0.22	0.21
38	9,124	0.60	255.30	9079.84	673.55	-158.28	673.53	691.90	346.78	0.39	0.38
39	9,178	0.60	291.90	9133.84	673.59	-158.82	673.56	692.06	346.73	0.70	0.00
40	9,225	6.00	2.50	9180.75	676.14	-158.94	676.11	694.57	346.77	12.40	11.49
41	9,272	12.20	2.50	9227.14	683.56	-158.62	683.53	701.72	346.94	13.19	13.19
42	9,319	20.70	359.00	9272.17	696.85	-158.54	696.82	714.66	347.18	18.20	18.09
43	9,366	27.20	358.40	9315.10	715.91	-158.99	715.89	733.36	347.48	13.84	13.83
44	9,460	33.50	3.00	9396.19	763.35	-158.23	763.32	779.58	348.29	7.14	6.70
45	9,554	40.50	6.00	9471.22	819.69	-153.68	819.66	833.97	349.38	7.69	7.45
46	9,649	46.40	4.60	9540.16	884.71	-147.69	884.69	896.95	350.52	6.29	6.21
47	9,743	52.20	0.20	9601.45	955.86	-144.83	955.83	966.77	351.38	7.12	6.17
48	9,837	61.00	0.10	9653.14	1034.26	-144.62	1034.23	1044.32	352.04	9.36	9.36
49	9,884	67.70	359.40	9673.48	1076.60	-144.82	1076.57	1086.29	352.34	14.32	14.26
50	9,978	80.60	1.80	9699.10	1166.82	-143.81	1166.80	1175.65	352.97	13.94	13.72
51	10,073	87.70	2.20	9708.78	1261.21	-140.51	1261.18	1269.01	353.64	7.49	7.47
52	10,167	89.40	2.70	9711.16	1355.09	-136.50	1355.06	1361.95	354.25	1.89	1.81
53	10,261	87.60	0.50	9713.62	1449.01	-133.87	1448.99	1455.18	354.72	3.02	-1.91
54	10,356	87.40	1.20	9717.76	1543.91	-132.46	1543.88	1549.58	355.10	0.77	-0.21
55	10,450	87.80	1.60	9721.70	1637.80	-130.17	1637.77	1642.96	355.46	0.60	0.43
56	10,544	90.70	0.30	9722.93	1731.76	-128.61	1731.74	1736.53	355.75	3.38	3.09
57	10,638	90.10	0.10	9722.27	1825.76	-128.28	1825.74	1830.26	355.98	0.67	-0.64
58	10,733	93.10	1.30	9719.62	1920.70	-127.12	1920.68	1924.91	356.21	3.40	3.16
59	10,827	90.50	358.70	9716.67	2014.64	-127.12	2014.62	2018.65	356.39	3.91	-2.77
60	10,922	89.10	354.70	9717.00	2109.46	-132.59	2109.44	2113.62	356.40	4.46	-1.47
61	11,016	87.50	352.10	9719.79	2202.79	-143.39	2202.76	2207.45	356.28	3.25	-1.70
62	11,110	85.50	352.90	9725.52	2295.80	-155.64	2295.78	2301.07	356.12	2.29	-2.13
63	11,204	87.50	353.60	9731.26	2388.97	-166.66	2388.94	2394.78	356.01	2.25	2.13
64	11,299	90.70	359.50	9732.76	2483.73	-172.37	2483.70	2489.71	356.03	7.06	3.37
65	11,393	91.10	2.80	9731.28	2577.69	-170.49	2577.66	2583.32	356.22	3.54	0.43
66	11,488	89.40	3.10	9730.86	2672.56	-165.60	2672.53	2677.69	356.45	1.82	-1.79
67	11,582	93.40	4.50	9728.57	2766.30	-159.37	2766.28	2770.89	356.70	4.51	4.26

MS Directional

V09.04.02

SURVEY CALCULATION PROGRAM

3/31/20 15:40

Company:	Matador Production Company		
Well Name:	Ray State COM #204H		
Location:	Eddy County, NM		
Rig:	Patterson #282	Magnetic Declination:	6.82
Job Number:	MSMO-73000		
API #:	30-015-46449		
Vertical Section Azimuth:	0.01	Proposed Direction:	0.01
Survey Calculation Method:	Minimum Curvature		

REFERENCED TO GRID NORTH

PTB:	MD	INC	AZM	TVD	N/S	E/W	VS
	20,198	91.50	5.50	9740.19	11370.78	-142.92	11370.75

#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance	Closure Azm	DLS/ 100	BUR/ 100'
68	11,676	89.40	0.30	9726.27	2860.15	-155.44	2860.13	2864.37	356.89	6.17	-4.26
69	11,770	91.60	359.60	9725.45	2954.14	-155.52	2954.12	2958.23	356.99	2.46	2.34
70	11,865	92.70	359.30	9721.89	3049.07	-156.44	3049.04	3053.08	357.06	1.20	1.16
71	11,959	89.60	359.40	9720.00	3143.03	-157.50	3143.01	3146.98	357.13	3.30	-3.30
72	12,053	87.90	0.50	9722.05	3237.01	-157.58	3236.98	3240.84	357.21	2.15	-1.81
73	12,147	87.40	0.10	9725.91	3330.93	-157.09	3330.90	3334.63	357.30	0.68	-0.53
74	12,242	87.90	359.80	9729.80	3425.85	-157.17	3425.82	3429.45	357.37	0.61	0.53
75	12,336	90.50	3.00	9731.11	3519.79	-154.88	3519.76	3523.19	357.48	4.39	2.77
76	12,430	87.30	3.00	9732.92	3613.63	-149.96	3613.60	3616.74	357.62	3.40	-3.40
77	12,525	95.60	3.30	9730.52	3708.37	-144.75	3708.35	3711.20	357.76	8.74	8.74
78	12,619	91.30	1.20	9724.86	3802.10	-141.07	3802.08	3804.72	357.88	5.09	-4.57
79	12,714	89.60	358.40	9724.11	3897.09	-141.40	3897.06	3899.65	357.92	3.45	-1.79
80	12,808	90.30	358.60	9724.20	3991.05	-143.86	3991.03	3993.65	357.94	0.77	0.74
81	12,903	89.70	357.30	9724.20	4085.99	-147.26	4085.97	4088.64	357.94	1.51	-0.63
82	12,997	91.40	357.20	9723.29	4179.87	-151.77	4179.85	4182.63	357.92	1.81	1.81
83	13,092	91.70	358.70	9720.72	4274.78	-155.16	4274.75	4277.59	357.92	1.61	0.32
84	13,186	90.70	0.80	9718.75	4368.75	-155.57	4368.72	4371.52	357.96	2.47	-1.06
85	13,281	90.70	3.40	9717.59	4463.67	-152.09	4463.64	4466.26	358.05	2.74	0.00
86	13,375	89.30	3.80	9717.59	4557.48	-146.19	4557.46	4559.83	358.16	1.55	-1.49
87	13,469	86.90	2.20	9720.71	4651.29	-141.27	4651.27	4653.44	358.26	3.07	-2.55
88	13,564	86.70	1.70	9726.01	4746.09	-138.05	4746.06	4748.09	358.33	0.57	-0.21
89	13,658	91.90	3.80	9727.16	4839.93	-133.54	4839.91	4841.78	358.42	5.97	5.53
90	13,753	92.40	5.30	9723.60	4934.57	-126.01	4934.54	4936.17	358.54	1.66	0.53
91	13,847	90.60	3.70	9721.14	5028.24	-118.64	5028.22	5029.64	358.65	2.56	-1.91
92	13,941	89.40	1.90	9721.14	5122.12	-114.04	5122.10	5123.39	358.72	2.30	-1.28
93	14,036	88.50	358.00	9722.88	5217.08	-114.13	5217.06	5218.33	358.75	4.21	-0.95
94	14,130	90.10	358.90	9724.03	5311.04	-116.67	5311.02	5312.32	358.74	1.95	1.70
95	14,224	92.10	0.40	9722.22	5405.01	-117.24	5404.99	5406.28	358.76	2.66	2.13
96	14,318	89.00	358.90	9721.32	5498.99	-117.82	5498.97	5500.25	358.77	3.66	-3.30
97	14,413	90.10	359.10	9722.07	5593.97	-119.48	5593.95	5595.25	358.78	1.18	1.16
98	14,507	91.10	358.80	9721.08	5687.95	-121.20	5687.93	5689.24	358.78	1.11	1.06
99	14,601	88.10	356.40	9721.74	5781.85	-125.13	5781.83	5783.20	358.76	4.09	-3.19
100	14,695	90.10	356.60	9723.21	5875.66	-130.87	5875.63	5877.11	358.72	2.14	2.13

MS Directional

V09.04.02

SURVEY CALCULATION PROGRAM

3/31/20 15:40

Company:	Matador Production Company			
Well Name:	Ray State COM #204H			
Location:	Eddy County, NM			
Rig:	Patterson #282	Magnetic Declination:	6.82	REFERENCED TO GRID NORTH
Job Number:	MSMO-73000			
API #:	30-015-46449			
Vertical Section Azimuth:	0.01	Proposed Direction:	0.01	
Survey Calculation Method:	Minimum Curvature			

PTB:	MD	INC	AZM	TVD	N/S	E/W	VS
	20,198	91.50	5.50	9740.19	11370.78	-142.92	11370.75

#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance	Closure Azm	DLS/ 100	BUR/ 100'
101	14,790	94.20	357.20	9719.65	5970.43	-136.00	5970.41	5971.98	358.70	4.36	4.32
102	14,884	93.60	359.30	9713.26	6064.16	-138.87	6064.14	6065.75	358.69	2.32	-0.64
103	14,978	91.20	0.80	9709.32	6158.07	-138.78	6158.05	6159.63	358.71	3.01	-2.55
104	15,073	88.50	1.30	9709.57	6253.05	-137.04	6253.02	6254.55	358.74	2.89	-2.84
105	15,167	86.40	0.50	9713.75	6346.93	-135.57	6346.91	6348.38	358.78	2.39	-2.23
106	15,262	90.20	1.20	9716.57	6441.86	-134.16	6441.84	6443.26	358.81	4.07	4.00
107	15,356	87.30	1.30	9718.62	6535.81	-132.11	6535.79	6537.14	358.84	3.09	-3.09
108	15,450	87.40	1.00	9722.97	6629.69	-130.22	6629.67	6630.97	358.87	0.34	0.11
109	15,544	88.30	0.90	9726.49	6723.61	-128.67	6723.59	6724.84	358.90	0.96	0.96
110	15,638	86.90	359.30	9730.43	6817.52	-128.50	6817.50	6818.73	358.92	2.26	-1.49
111	15,732	88.00	359.80	9734.61	6911.42	-129.24	6911.40	6912.63	358.93	1.29	1.17
112	15,827	88.20	359.70	9737.76	7006.37	-129.65	7006.35	7007.57	358.94	0.24	0.21
113	15,921	85.70	358.70	9742.76	7100.22	-130.96	7100.20	7101.43	358.94	2.86	-2.66
114	16,016	86.80	359.30	9748.98	7195.00	-132.62	7194.98	7196.22	358.94	1.32	1.16
115	16,110	91.50	0.50	9750.37	7288.96	-132.78	7288.94	7290.17	358.96	5.16	5.00
116	16,205	91.60	0.30	9747.80	7383.93	-132.12	7383.90	7385.11	358.97	0.24	0.11
117	16,299	87.40	0.10	9748.62	7477.90	-131.79	7477.88	7479.06	358.99	4.47	-4.47
118	16,394	90.80	1.50	9750.11	7572.86	-130.46	7572.84	7573.99	359.01	3.87	3.58
119	16,488	91.60	2.60	9748.14	7666.78	-127.10	7666.76	7667.83	359.05	1.45	0.85
120	16,583	90.20	359.60	9746.65	7761.74	-125.28	7761.72	7762.75	359.08	3.48	-1.47
121	16,677	88.20	357.70	9747.96	7855.69	-127.49	7855.67	7856.73	359.07	2.93	-2.13
122	16,772	92.20	0.40	9747.63	7950.65	-129.07	7950.63	7951.70	359.07	5.08	4.21
123	16,866	92.00	0.90	9744.19	8044.58	-128.00	8044.56	8045.60	359.09	0.57	-0.21
124	16,961	90.40	0.80	9742.20	8139.55	-126.59	8139.52	8140.53	359.11	1.69	-1.68
125	17,055	90.20	0.20	9741.71	8233.54	-125.77	8233.52	8234.50	359.12	0.67	-0.21
126	17,149	86.30	358.30	9744.58	8327.47	-127.00	8327.45	8328.44	359.13	4.61	-4.15
127	17,243	82.50	356.70	9753.75	8420.91	-131.08	8420.89	8421.93	359.11	4.38	-4.04
128	17,337	84.80	355.50	9764.14	8514.11	-137.43	8514.08	8515.22	359.08	2.76	2.45
129	17,432	88.80	358.00	9769.45	8608.78	-142.80	8608.76	8609.97	359.05	4.96	4.21
130	17,526	90.20	0.50	9770.27	8702.76	-144.03	8702.73	8703.95	359.05	3.05	1.49
131	17,620	90.80	1.20	9769.45	8796.75	-142.64	8796.72	8797.90	359.07	0.98	0.64
132	17,682	96.50	1.80	9765.50	8858.57	-141.02	8858.55	8859.69	359.09	9.24	9.19
133	17,714	97.30	1.50	9761.66	8890.33	-140.11	8890.30	8891.43	359.10	2.67	2.50

MS Directional
V09.04.02

SURVEY CALCULATION PROGRAM

3/31/20 15:40

Company:	Matador Production Company		
Well Name:	Ray State COM #204H		
Location:	Eddy County, NM		
Rig:	Patterson #282	Magnetic Declination:	6.82
Job Number:	MSMO-73000		
API #:	30-015-46449		
Vertical Section Azimuth:	0.01	Proposed Direction:	0.01
Survey Calculation Method:	Minimum Curvature		

REFERENCED TO GRID NORTH

PTB:	MD	INC	AZM	TVD	N/S	E/W	VS
	20,198	91.50	5.50	9740.19	11370.78	-142.92	11370.75

#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance	Closure Azm	DLS/ 100	BUR/ 100'
134	17,808	91.60	0.60	9754.37	8983.99	-138.39	8983.96	8985.05	359.12	6.14	-6.06
135	17,902	91.60	0.20	9751.74	9077.95	-137.74	9077.93	9078.99	359.13	0.43	0.00
136	17,997	90.30	359.80	9750.17	9172.93	-137.74	9172.91	9173.97	359.14	1.43	-1.37
137	18,091	91.50	359.10	9748.69	9266.92	-138.64	9266.89	9267.95	359.14	1.48	1.28
138	18,185	88.00	356.90	9749.10	9360.84	-141.92	9360.81	9361.91	359.13	4.40	-3.72
139	18,280	88.40	357.00	9752.08	9455.66	-146.97	9455.63	9456.80	359.11	0.43	0.42
140	18,374	89.00	356.90	9754.22	9549.50	-151.97	9549.47	9550.71	359.09	0.65	0.64
141	18,468	89.00	355.90	9755.86	9643.30	-157.87	9643.27	9644.59	359.06	1.06	0.00
142	18,562	89.80	356.20	9756.84	9737.07	-164.35	9737.04	9738.45	359.03	0.91	0.85
143	18,657	93.30	358.90	9754.27	9831.92	-168.41	9831.89	9833.36	359.02	4.65	3.68
144	18,751	91.10	357.40	9750.66	9925.80	-171.44	9925.77	9927.28	359.01	2.83	-2.34
145	18,845	91.80	359.50	9748.28	10019.73	-173.98	10019.69	10021.24	359.01	2.35	0.74
146	18,940	89.10	357.90	9747.54	10114.69	-176.14	10114.66	10116.22	359.00	3.30	-2.84
147	19,034	91.00	357.90	9747.46	10208.62	-179.58	10208.59	10210.20	358.99	2.02	2.02
148	19,128	89.10	0.30	9747.37	10302.60	-181.06	10302.56	10304.19	358.99	3.26	-2.02
149	19,223	92.20	2.40	9746.30	10397.55	-178.82	10397.52	10399.08	359.01	3.94	3.26
150	19,317	90.30	1.00	9744.25	10491.48	-176.03	10491.45	10492.95	359.04	2.51	-2.02
151	19,411	87.80	358.40	9745.80	10585.45	-176.53	10585.42	10586.92	359.04	3.84	-2.66
152	19,506	94.20	1.50	9744.15	10680.37	-176.61	10680.34	10681.83	359.05	7.48	6.74
153	19,600	92.10	0.20	9738.98	10774.21	-175.22	10774.18	10775.64	359.07	2.63	-2.23
154	19,695	92.00	3.20	9735.58	10869.10	-172.40	10869.07	10870.47	359.09	3.16	-0.11
155	19,789	91.90	3.20	9732.38	10962.90	-167.16	10962.87	10964.17	359.13	0.11	-0.11
156	19,883	89.80	2.80	9730.99	11056.75	-162.24	11056.72	11057.94	359.16	2.27	-2.23
157	19,977	85.90	2.40	9734.52	11150.57	-157.98	11150.54	11151.69	359.19	4.17	-4.15
158	20,072	86.90	3.10	9740.48	11245.27	-153.43	11245.25	11246.32	359.22	1.28	1.05
159	20,147	91.50	5.50	9741.53	11320.03	-147.81	11320.00	11320.99	359.25	6.92	6.13
PTB:	20,198	91.50	5.50	9740.19	11370.78	-142.92	11370.75	11371.67	359.28	0.00	0.00