

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan
Grisham Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Adrienne Sandoval, Division Director
Oil Conservation Division



07/21/2020

Operator Notice Regarding C-104 Denial and Request for Information

30-015-46449

OCD is providing notice to operators that it will deny your C-104 – *Request for Allowable and Authorization to Transport* if it fails to provide complete and accurate information, including:

Test Allowable, New Well and Recompleted Well

Mark Box, 'AMENDED REPORT' on C-104

C-104 RT is submitted late, read rule: 19.15.7.15, 19.15.7.16. Marathon has Completion data already listed on the form.

- ☒ C-103 (or BLM equivalent) for all casing strings
 - ☐ Spud Notice
 - ☐ Surface Casing
 - ☐ Intermediate Casing (if applicable)
 - ☐ Additional Intermediate Casing (if applicable)
 - ☐ Production Casing or Liner

***C-103 missing for word document attached. Please submit as amended on details section.*

☐ Applicable Order (NSL, NSP, Other _____)

☐ Deviation Survey for Vertical Wells

☒ Directional Survey *xx Please re-submit with C-104*

☒ C-102 (As-Drilled Plat for Horizontal Well)

New Well and Recompleted Well Only

☒ C-103 Completion Sundry (or BLM equivalent)

☒ C-105 Completion Report (or BLM equivalent)

☒ All Logs Run on Well

The sale or transport of product without an approved C-104 violates the Oil and Gas Act and the implementing rules, including 19.15.7.15 and 19.15.16.19 NMAC. If OCD determines that your C-104 is incomplete or inaccurate, it will give you notice to resubmit your C-104 within 30 days. Failure to comply with this notice may result in enforcement action.

If you have any questions, please contact the local OCD District Office.

Once Complete, re-submit through e docs asap.

Thank you

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

EMNRD-OCD ARTESIA Form C-104
*REC'D: 7/14/2020 Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address MATADOR PRODUCTION COMPANY 5400 LBJ FREEWAY, STE. 1500 DALLAS, TX 75240		² OGRID Number 228937
		³ Reason for Filing Code/ Effective Date ** RT
⁴ API Number 30 - 0 15-46449	⁵ Pool Name PURPLE SAGE;WOLFCAMP (GAS)	⁶ Pool Code 98220
⁷ Property Code 326434	⁸ Property Name RAY STATE COM	⁹ Well Number 204H

II. 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	24S	28E		953'	N	298	E	EDDY

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	25	24S	28E		241'	N	437'	E	EDDY
¹² Lse Code S	¹³ Producing Method Code F	¹⁴ Gas Connection Date 06/04/20	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
371242	LONGWOOD RB PIPELINE, LLC 5400 LBJ FREEWAY, STE 1500 DALLAS, TX 75240	G
195739	PLAINS PIPELINE, LP 333 CLAY STREET, STE 1600 HOUSTON, TX 77002	O

IV. Well Completion Data

Cement in hole 20,198' - 20,090'

²¹ Spud Date 11/25/20	²² Ready Date ** 06/03/20	²³ TD 9740'/20,198'	²⁴ PBDT 20,090'	²⁵ Perforations 10,118' - 20,043'	²⁶ DHC, MC -----
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
Surf: 17.5	13.375 #54.5 J55	217'	710 1.34 A		
Int1: 12.25	9.625 #40.0 J55	2775'	1620 1.33 C		
Int2: 8.75	7.625 #29.7 P110	9871'	875 1.37 C		
Prod: 6.75	5.5 #20.0 P110	20185'	1100 1.44 H		

V. Well Test Data

³¹ Date New Oil 06/03/20	³² Gas Delivery Date 06/04/20	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.
Signature:

Ava Monroe

Printed name:
Ava Monroe

Title:
Sr. Regulatory Analyst

E-mail Address:
amonroe@matadorresources.com

Date:
07/14/20

Phone:
972-371-5218

OIL CONSERVATION DIVISION

Approved by:

DENIED

Title:

Approval Date:

Refer to page 1 of the attachment(s)

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

FORM C-102

REC'D: 7/14/2020

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46449	² Pool Code 98220	³ Pool Name PURPLE SAGE;WOLFCAMP (GAS)
⁴ Property Code 326434	⁵ Property Name RAY STATE COM	⁶ Well Number 204H
⁷ GRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 2962'

¹⁰Surface Location

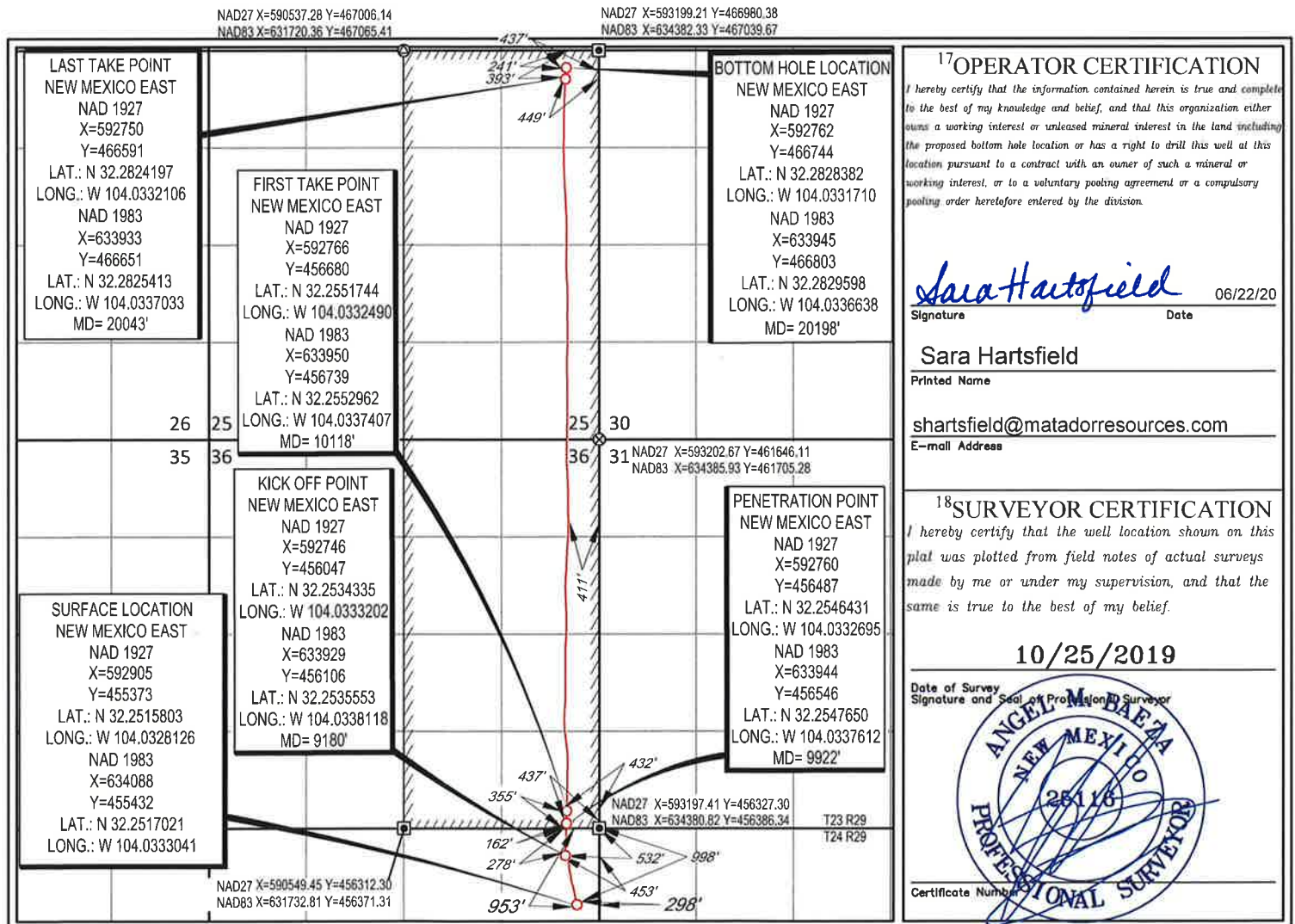
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	1	24-S	28-E	-	953'	NORTH	298'	EAST	EDDY

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	-	241'	NORTH	437'	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.



Intent ☐ As Drilled ☒

API # 30-015-46449			
Operator Name: MATADOR PRODUCTION COMPANY		Property Name: RAY STATE COM	Well Number 204H

Kick Off Point (KOP)

UL 1	Section 1	Township 24S	Range 28E	Lot	Feet 278	From N/S N	Feet 453	From E/W E	County EDDY
Latitude N 32.2535553					Longitude W 104.0338118				NAD 83

First Take Point (FTP)

UL A	Section 36	Township 24S	Range 28E	Lot	Feet 355	From N/S S	Feet 432	From E/W E	County EDDY
Latitude N 32.2552962					Longitude W 104.0337407				NAD 83

Last Take Point (LTP)

UL A	Section 25	Township 23S	Range 28E	Lot	Feet 393	From N/S N	Feet 449	From E/W E	County EDDY
Latitude N 32.2825413					Longitude W 104.0337033				NAD 83

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

Is this well an infill well? ☐

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

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=592750
Y=466591
LAT.: N 32.2824197
LONG.: W 104.0332106
NAD 1983
X=633933
Y=466651
LAT.: N 32.2825413
LONG.: W 104.0337033
MD= 20043'

COTTON
SPINDLE
FOUND

FIRST TAKE POINT
NEW MEXICO EAST
NAD 1927
X=592766
Y=456680
LAT.: N 32.2551744
LONG.: W 104.0332490
NAD 1983
X=633950
Y=456739
LAT.: N 32.2552962
LONG.: W 104.0337407
MD= 10118'

BOTTOM HOLE LOCATION
NEW MEXICO EAST
NAD 1927
X=592762
Y=466744
LAT.: N 32.2828382
LONG.: W 104.0331710
NAD 1983
X=633945
Y=466803
LAT.: N 32.2829598
LONG.: W 104.0336638
MD= 20198'

SURFACE LOCATION
NEW MEXICO EAST
NAD 1927
X=592905
Y=455373
LAT.: N 32.2515803
LONG.: W 104.0328126
NAD 1983
X=634088
Y=455432
LAT.: N 32.2517021
LONG.: W 104.0333041

KICK OFF POINT
NEW MEXICO EAST
NAD 1927
X=592746
Y=456047
LAT.: N 32.2534335
LONG.: W 104.0333202
NAD 1983
X=633929
Y=456106
LAT.: N 32.2535553
LONG.: W 104.0338118
MD= 9180'

PENETRATION POINT
NEW MEXICO EAST
NAD 1927
X=592760
Y=456487
LAT.: N 32.2546431
LONG.: W 104.0332695
NAD 1983
X=633944
Y=456546
LAT.: N 32.2547650
LONG.: W 104.0337612
MD= 9922'

T23 R28
T24 R28
35 36
2 1
FND. BRASS CAP,
U.S. G.L.O. SUR.
1942

S 89°40'41" W
2647.40'
FND. BRASS CAP,
U.S. G.L.O. SUR.
1

S 89°40'29" W
2648.05'
FND. BRASS CAP,
U.S. G.L.O. SUR.
1

T23 R29
T24 R29
36 31
1 6
FND. BRASS CAP,
U.S. G.L.O. SUR.
1942

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, 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. 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

Ray State Com 204H 30-015-46449

Drilling Sundry

11/25/19 Spud well. Drill ahead.

11/29/19 RU & run surface casing; 13 3/8" 54.5# BTC csg and set @217'; Hole sz 17.5"
Cement csg w/Spinnaker Cementers as follows: Pump 710 sx Class A, 1.34 yld; 30 bbls (126 sx) cement to surface. WSI and secured. Drilling paused. Rig walked to nearby well.

12/26/19 Walk rig and center over well. WOC 657.0 hrs. Test surface csg to 910 psi; held for 30 min. Good test. Prep well to resume drilling 12/27/19. Drill ahead.

12/29/19 Run 9 5/8" 40# J55 intermediate 1 csg set @ 2775'. Hole sz 12.25". Pump 1620 sx of Class C w/ 1.33 yld. No cement to surface. Notify Mike Bratcher and ran CBL, (cemented Int2 to surface). RD Halliburton. Nipple down BOPs, well secured. Prepare to walk rig to nearby well.

01/06/20 Walk rig and center over hole.

01/07/20 WOC 202.0 hrs; test Int1 to 1500 psi. Held. Good test. Drill ahead.

01/12/20 Run 7 5/8" 29.7# Int2 csg and set @ 9871'. Hole sz 8.75". Pump 875 sx Class C w/1.37 yld. Returned 75 sx to surface. WOC.

01/13/20 WOC 39.0 hrs. Test Int2 casing to 2500 psi for 30 min. Held, good test. Drill ahead.

01/29/20 Run 5 1/2" 20# PP10 production casing set @ 20,185'. Hole sz 6.75". Pump 1100 sx Class H w/1.44 yld. Returned 125 sx to surface. WOC.

01/30/20 Release rig. WSI and secured; awaiting completion.

03/28/20 WOC 1417 hrs. Perform casing integrity test to 5949 psi for 30 min. Dropped 59 psi; good test.
TVD/MD 9740'/20198' reached 01/27/20. PBTD 20,090' reached 01/27/20



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.

A handwritten signature in blue ink, appearing to read "Chris Hair", is written over a horizontal line.

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

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



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.

Matt Richmond

Digitally signed by:

MWD Surveyor Name: William Richmond

Date: 04-05-2020

Email: William.Richmond@msdir.com

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SURVEY CALCULATION PROGRAM

3/31/20 15:40

V09.04.02

Company:		Matador Production Company										
Well Name:		Ray State COM #204H										
Location:		Eddy County, NM										
Rig:		Patterson #282										
Job Number:		MSMO-73000										
API #:		30-015-46449										
Vertical Section Azimuth:		0.01										
Survey Calculation Method:		Minimum Curvature										
PTB:	MD			INC			AZM			TVD		
	20,198			91.50			5.50			9740.19		
										Proposed Direction:		
										0.01		
#	Depth	Inc	Azm	TVD	N/S	E/W	Surface	Distance	Closure	DLS/	BUR/	
	Feet	Degrees	Degrees	Feet	Feet	Feet	Vert Sec	Feet	Azm	100'	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	

Page 1

11370.75

100'

100'

REFERENCED TO GRID NORTH

REFERENCED TO GRID NORTH



SURVEY CALCULATION PROGRAM

3/31/20 15:40

V09.04.02

Company: Matador Production Company

Well Name: Ray State COM #204H

Location: Eddy County, NM

Rig: Patterson #282

Job Number: MSMO-73000

API #: 30-015-46449

Vertical Section Azimuth: 0.01

Survey Calculation Method: Minimum Curvature

PTB: MD 20.198 INC 91.50

AZM 5.50

TVD 9740.19

N/S 11370.78

EW 142.92

Distance 2770.89

Closure 356.70

Azm 1.28

DLS/ 100

BUR/ 100'

VS 11370.75

Proposed Direction: 0.01

Magnetic Declination: 6.82

REFERENCED TO GRID NORTH

Page 2

2766.30

9728.57

93.40

4.50

2.80

9731.28

91.10

3.10

9730.86

89.40

2672.56

2672.53

2577.66

2483.70

2388.94

2295.78

2202.76

2109.44

2014.62

1920.68

1825.74

1731.74

1637.77

1543.88

1448.99

1355.06

1261.18

1166.80

1076.57

986.22

896.85

806.40

715.91

625.45

535.00

444.55

354.00

263.50

172.00

80.60

0.10

0.30

0.50

0.70

0.90

1.10

1.30

1.50

1.70

1.90

2.10

2.30

2.50

2.70

2.90

3.10

3.30

3.50

3.70

3.90

4.10

4.30

4.50

4.70

4.90

5.10

REFERENCED TO GRID NORTH

EMW
-142.92
Closure
Distance Azm

2864.37	356.89
2968.23	356.99
3053.08	357.06
3146.98	357.13
3240.84	357.21
3334.63	357.30
3429.46	357.37
3523.19	357.48
3616.74	357.62
3711.20	357.76
3804.72	357.88
3899.65	357.92
3993.65	357.94
4088.64	357.94
4182.63	357.92
4277.59	357.92
4371.52	357.96
4466.26	358.05
4559.83	358.16
4653.44	358.26
4748.09	358.33
4841.78	358.42
4936.17	358.54
5029.64	358.65
5123.39	358.72
5218.33	358.75
5312.32	358.74
5406.28	358.76
5500.25	358.77
5595.25	358.78
5689.24	358.78
5783.20	358.76
5877.11	358.72



SURVEY CALCULATION PROGRAM

3/31/20 15:40

V09.04.02

Company:		Matador Production Company									
Well Name:		Ray State COM #204H									
Location:		Eddy County, NM									
Rig:		Patterson #282									
Job Number:		MSMO-73000									
API #:		30-015-46449									
Vertical Section Azimuth:		0.01									
Survey Calculation Method:		Minimum Curvature									
PTB:	MD	INC	AZM	TVD	N/S	TVD	N/S	EW	Closure	VS	
	20.198	91.50	5.50	9740.19	11370.78	-142.92	11370.75			DLS/ 100'	BUR/ 100'
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	EW Feet	Vert Sec	Distance	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

REFERENCED TO GRID NORTH



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											
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		NS		E/W		VS	
	20,198	91.50		5.50		9740.19		11370.78		-142.92		11370.75	
#	Depth	Inc	Azm	TVD	N/S	E/W	Surface	Closure	DLS/	BUR/			
	Feet	Degrees	Degrees	Feet	Feet	Feet	Vert Sec	Distance	Azm	100'	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	10491.45	-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		