

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011

Permit 313630

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240		2. OGRID Number 228937
4. Property Code 332756		3. API Number 30-025-50102
5. Property Name DEE OSBORNE 1930 STATE COM		6. Well No. 123H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	19	21S	35E	B	378	N	1471	E	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
O	30	21S	35E	O	60	S	2308	E	Lea

9. Pool Information

WILSON;BONE SPRING	64560
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3641
16. Multiple N	17. Proposed Depth 20283	18. Formation Bone Spring	19. Contractor	20. Spud Date 5/15/2022
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	20	13.375	54.5	1700	1850	0
Int1	12.25	9.625	40	5700	1400	0
Prod	8.75	7	29	9400	2700	5500
Prod	8.75	5.5	20	20283	2700	5500

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	3000	Cameron
Double Ram	10000	5000	Cameron
Pipe	10000	5000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.	OIL CONSERVATION DIVISION
Signature:	
Printed Name: Electronically filed by Brett A Jennings	Approved By: Paul F Kautz
Title: Regulatory Analyst	Title: Geologist
Email Address: brett.jennings@matadorresources.com	Approved Date: 5/4/2022 Expiration Date: 5/4/2024
Date: 4/12/2022 Phone: 972-629-2160	Conditions of Approval Attached

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DISTRICT II

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DISTRICT III

1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-8178 Fax: (505) 334-8170

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-50102	Pool Code 64560	Pool Name Wilsonj Bone Spring
Property Code 332756	Property Name DEE OSBORNE 1930 STATE COM	Well Number 123H
OGRID No. 228937	Operator Name MATADOR PRODUCTION COMPANY	Elevation 3641.6'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	19	21-S	35-E		378	NORTH	1471	EAST	LEA

Bottom 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
O	30	21-S	35-E		60	SOUTH	2308	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320.00			

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

<p>NAD 83 NME SURFACE LOCATION Y=536234.0 N X=828248.5 E LAT.=32.470732° N LONG.=103.403011° W</p> <p>FPP NAD 83 100' FNL & 2309' FEL Y=536505.0 N X=827408.6 E LAT.=32.471498° N LONG.=103.405272° W</p> <p>POINT LEGEND NAD 27</p> <table border="1"> <tr><td>1</td><td>Y=536540.7 N</td></tr> <tr><td>2</td><td>X=785992.7 E</td></tr> <tr><td>3</td><td>Y=531265.9 N</td></tr> <tr><td>4</td><td>X=785938.8 E</td></tr> <tr><td>5</td><td>Y=525982.3 N</td></tr> <tr><td>6</td><td>X=785981.5 E</td></tr> <tr><td>7</td><td>Y=536551.6 N</td></tr> <tr><td>8</td><td>X=787213.2 E</td></tr> <tr><td>9</td><td>Y=531275.1 N</td></tr> <tr><td>10</td><td>X=787250.2 E</td></tr> <tr><td>11</td><td>Y=525992.7 N</td></tr> <tr><td>12</td><td>X=787301.7 E</td></tr> </table> <p>LPP NAD 83 100' FSL & 2308' FEL Y=526146.2 N X=827495.9 E LAT.=32.443025° N LONG.=103.405736° W</p> <p>PROPOSED BOTTOM HOLE LOCATION NAD 83 Y=526106.2 N X=827496.2 E LAT.=32.442915° N LONG.=103.405736° W</p>	1	Y=536540.7 N	2	X=785992.7 E	3	Y=531265.9 N	4	X=785938.8 E	5	Y=525982.3 N	6	X=785981.5 E	7	Y=536551.6 N	8	X=787213.2 E	9	Y=531275.1 N	10	X=787250.2 E	11	Y=525992.7 N	12	X=787301.7 E	<p>NAD 27 NME SURFACE LOCATION Y=536172.4 N X=787065.5 E LAT.=32.470608° N LONG.=103.402532° W</p> <p>FPP NAD 27 100' FNL & 2309' FEL Y=536443.5 N X=786225.6 E LAT.=32.471373° N LONG.=103.405247° W</p> <p>POINT LEGEND NAD 27</p> <table border="1"> <tr><td>1</td><td>Y=536540.7 N</td></tr> <tr><td>2</td><td>X=785992.7 E</td></tr> <tr><td>3</td><td>Y=531265.9 N</td></tr> <tr><td>4</td><td>X=785938.8 E</td></tr> <tr><td>5</td><td>Y=525982.3 N</td></tr> <tr><td>6</td><td>X=785981.5 E</td></tr> <tr><td>7</td><td>Y=536551.6 N</td></tr> <tr><td>8</td><td>X=787213.2 E</td></tr> <tr><td>9</td><td>Y=531275.1 N</td></tr> <tr><td>10</td><td>X=787250.2 E</td></tr> <tr><td>11</td><td>Y=525992.7 N</td></tr> <tr><td>12</td><td>X=787301.7 E</td></tr> </table> <p>LPP NAD 27 100' FSL & 2308' FEL Y=526084.9 N X=786312.7 E LAT.=32.442900° N LONG.=103.405257° W</p> <p>PROPOSED BOTTOM HOLE LOCATION NAD 27 Y=526044.9 N X=786313.0 E LAT.=32.442790° N LONG.=103.405257° W</p>	1	Y=536540.7 N	2	X=785992.7 E	3	Y=531265.9 N	4	X=785938.8 E	5	Y=525982.3 N	6	X=785981.5 E	7	Y=536551.6 N	8	X=787213.2 E	9	Y=531275.1 N	10	X=787250.2 E	11	Y=525992.7 N	12	X=787301.7 E	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Hanna Bollenbach</i> 4/5/22 Signature Date</p> <p>Hanna Bollenbach Printed Name</p> <p>hanna.bollenbach@matadorresources.com E-mail Address</p> <p>SURVEYOR CERTIFICATION</p> <p>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 and correct to the best of my belief.</p> <p>MARCH 15, 2022 Date of Survey</p> <p>Signature & Seal of Professional Surveyor</p> <p><i>Chad L. Harcrow</i> 4/4/22 Certificate No. CHAD HARCROW 17777 W.O. #22-207 DRAWN BY: WN</p>
1	Y=536540.7 N																																																	
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form APD Comments

Permit 313630

PERMIT COMMENTS

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240		API Number: 30-025-50102
		Well: DEE OSBORNE 1930 STATE COM #123H
Created By	Comment	Comment Date
pkautz	OPERATOR OUT OF COMPLIANCE WITH INACTIVE WELLS	4/21/2022

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Santa Fe, NM 87505

Form APD Conditions

Permit 313630

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	API Number: 30-025-50102
	Well: DEE OSBORNE 1930 STATE COM #123H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

Matador Production Company

Ranger/Arrowhead

Dee Osborne

Dee Osborne 1930 State Com #123H

Wellbore #1

Plan: State Plan #1

Standard Planning Report

08 April, 2022

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Dee Osborne 1930 State Com #123H
Company:	Matador Production Company	TVD Reference:	KB @ 3670.1usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3670.1usft
Site:	Dee Osborne	North Reference:	Grid
Well:	Dee Osborne 1930 State Com #123H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Project	Ranger/Arrowhead		
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		Using geodetic scale factor

Site	Dee Osborne,				
Site Position:		Northing:	536,379.55 usft	Latitude:	32° 28' 16.457 N
From:	Lat/Long	Easting:	784,533.16 usft	Longitude:	103° 24' 38.650 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.50 °

Well	Dee Osborne 1930 State Com #123H					
Well Position	+N/-S	-207.2 usft	Northing:	536,172.33 usft	Latitude:	32° 28' 14.189 N
	+E/-W	2,532.2 usft	Easting:	787,065.41 usft	Longitude:	103° 24' 9.115 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,641.6 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/8/2022	6.37	60.25	47,603.77494946

Design	State Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.52

Plan Survey Tool Program	Date	4/8/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,283.7	State Plan #1 (Wellbore #1)	MWD
				OWSG MWD - Standard

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,300.0	8.00	290.93	2,297.4	19.9	-52.1	1.00	1.00	0.00	290.93	
8,093.6	8.00	290.93	8,034.7	307.9	-805.2	0.00	0.00	0.00	0.00	
8,627.0	0.00	0.00	8,566.3	321.2	-839.9	1.50	-1.50	0.00	180.00	
9,505.7	0.00	0.00	9,445.0	321.2	-839.9	0.00	0.00	0.00	0.00	VP - Dee Osborne
10,395.3	88.96	179.52	10,017.9	-241.3	-835.2	10.00	10.00	0.00	179.52	
10,471.5	88.96	179.52	10,019.2	-317.5	-834.6	0.00	0.00	0.00	0.00	
20,283.7	88.96	179.52	10,198.1	-10,127.7	-752.5	0.00	0.00	0.00	0.00	BHL - Dee Osborne

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Dee Osborne 1930 State Com #123H
Company:	Matador Production Company	TVD Reference:	KB @ 3670.1usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3670.1usft
Site:	Dee Osborne	North Reference:	Grid
Well:	Dee Osborne 1930 State Com #123H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1.00									
1,600.0	1.00	290.93	1,600.0	0.3	-0.8	-0.3	1.00	1.00	0.00
1,700.0	2.00	290.93	1,700.0	1.2	-3.3	-1.3	1.00	1.00	0.00
1,701.0	2.01	290.93	1,701.0	1.3	-3.3	-1.3	1.00	1.00	0.00
Depth (Rustler)									
1,800.0	3.00	290.93	1,799.9	2.8	-7.3	-2.9	1.00	1.00	0.00
1,900.0	4.00	290.93	1,899.7	5.0	-13.0	-5.1	1.00	1.00	0.00
2,000.0	5.00	290.93	1,999.4	7.8	-20.4	-8.0	1.00	1.00	0.00
2,100.0	6.00	290.93	2,098.9	11.2	-29.3	-11.5	1.00	1.00	0.00
2,101.9	6.02	290.93	2,100.8	11.3	-29.5	-11.5	1.00	1.00	0.00
Depth (Salado)									
2,200.0	7.00	290.93	2,198.3	15.3	-39.9	-15.6	1.00	1.00	0.00
2,300.0	8.00	290.93	2,297.4	19.9	-52.1	-20.4	1.00	1.00	0.00
Start 5793.6 hold at 2300.0 MD									
2,400.0	8.00	290.93	2,396.4	24.9	-65.1	-25.4	0.00	0.00	0.00
2,500.0	8.00	290.93	2,495.5	29.9	-78.1	-30.5	0.00	0.00	0.00
2,600.0	8.00	290.93	2,594.5	34.8	-91.1	-35.6	0.00	0.00	0.00
2,700.0	8.00	290.93	2,693.5	39.8	-104.1	-40.7	0.00	0.00	0.00
2,800.0	8.00	290.93	2,792.5	44.8	-117.1	-45.8	0.00	0.00	0.00
2,900.0	8.00	290.93	2,891.6	49.7	-130.1	-50.8	0.00	0.00	0.00
3,000.0	8.00	290.93	2,990.6	54.7	-143.1	-55.9	0.00	0.00	0.00
3,100.0	8.00	290.93	3,089.6	59.7	-156.1	-61.0	0.00	0.00	0.00
3,200.0	8.00	290.93	3,188.6	64.7	-169.1	-66.1	0.00	0.00	0.00
3,300.0	8.00	290.93	3,287.7	69.6	-182.1	-71.2	0.00	0.00	0.00
3,400.0	8.00	290.93	3,386.7	74.6	-195.1	-76.2	0.00	0.00	0.00
3,500.0	8.00	290.93	3,485.7	79.6	-208.1	-81.3	0.00	0.00	0.00
3,519.0	8.00	290.93	3,504.5	80.5	-210.5	-82.3	0.00	0.00	0.00
Depth (G30:CS14-CSB)									
3,600.0	8.00	290.93	3,584.8	84.5	-221.1	-86.4	0.00	0.00	0.00
3,700.0	8.00	290.93	3,683.8	89.5	-234.1	-91.5	0.00	0.00	0.00
3,800.0	8.00	290.93	3,782.8	94.5	-247.1	-96.6	0.00	0.00	0.00
3,900.0	8.00	290.93	3,881.8	99.5	-260.1	-101.6	0.00	0.00	0.00
4,000.0	8.00	290.93	3,980.9	104.4	-273.1	-106.7	0.00	0.00	0.00
4,053.7	8.00	290.93	4,034.0	107.1	-280.0	-109.4	0.00	0.00	0.00
Depth (Capitan (T))									
4,100.0	8.00	290.93	4,079.9	109.4	-286.1	-111.8	0.00	0.00	0.00
4,200.0	8.00	290.93	4,178.9	114.4	-299.1	-116.9	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Dee Osborne 1930 State Com #123H
Company:	Matador Production Company	TVD Reference:	KB @ 3670.1usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3670.1usft
Site:	Dee Osborne	North Reference:	Grid
Well:	Dee Osborne 1930 State Com #123H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,300.0	8.00	290.93	4,277.9	119.3	-312.1	-122.0	0.00	0.00	0.00
4,400.0	8.00	290.93	4,377.0	124.3	-325.1	-127.0	0.00	0.00	0.00
4,500.0	8.00	290.93	4,476.0	129.3	-338.1	-132.1	0.00	0.00	0.00
4,600.0	8.00	290.93	4,575.0	134.3	-351.1	-137.2	0.00	0.00	0.00
4,700.0	8.00	290.93	4,674.0	139.2	-364.1	-142.3	0.00	0.00	0.00
4,800.0	8.00	290.93	4,773.1	144.2	-377.1	-147.4	0.00	0.00	0.00
4,900.0	8.00	290.93	4,872.1	149.2	-390.1	-152.4	0.00	0.00	0.00
5,000.0	8.00	290.93	4,971.1	154.1	-403.1	-157.5	0.00	0.00	0.00
5,100.0	8.00	290.93	5,070.2	159.1	-416.1	-162.6	0.00	0.00	0.00
5,200.0	8.00	290.93	5,169.2	164.1	-429.1	-167.7	0.00	0.00	0.00
5,300.0	8.00	290.93	5,268.2	169.1	-442.1	-172.8	0.00	0.00	0.00
5,400.0	8.00	290.93	5,367.2	174.0	-455.1	-177.8	0.00	0.00	0.00
5,500.0	8.00	290.93	5,466.3	179.0	-468.1	-182.9	0.00	0.00	0.00
5,600.0	8.00	290.93	5,565.3	184.0	-481.1	-188.0	0.00	0.00	0.00
5,700.0	8.00	290.93	5,664.3	188.9	-494.1	-193.1	0.00	0.00	0.00
5,703.2	8.00	290.93	5,667.5	189.1	-494.5	-193.2	0.00	0.00	0.00
Depth (G13: Cherry Cyn.)									
5,800.0	8.00	290.93	5,763.3	193.9	-507.1	-198.2	0.00	0.00	0.00
5,900.0	8.00	290.93	5,862.4	198.9	-520.0	-203.2	0.00	0.00	0.00
6,000.0	8.00	290.93	5,961.4	203.9	-533.0	-208.3	0.00	0.00	0.00
6,100.0	8.00	290.93	6,060.4	208.8	-546.0	-213.4	0.00	0.00	0.00
6,200.0	8.00	290.93	6,159.4	213.8	-559.0	-218.5	0.00	0.00	0.00
6,300.0	8.00	290.93	6,258.5	218.8	-572.0	-223.6	0.00	0.00	0.00
6,400.0	8.00	290.93	6,357.5	223.7	-585.0	-228.6	0.00	0.00	0.00
6,500.0	8.00	290.93	6,456.5	228.7	-598.0	-233.7	0.00	0.00	0.00
6,600.0	8.00	290.93	6,555.6	233.7	-611.0	-238.8	0.00	0.00	0.00
6,700.0	8.00	290.93	6,654.6	238.7	-624.0	-243.9	0.00	0.00	0.00
6,740.3	8.00	290.93	6,694.5	240.7	-629.3	-245.9	0.00	0.00	0.00
Depth (G7: Brushy Cyn.)									
6,800.0	8.00	290.93	6,753.6	243.6	-637.0	-249.0	0.00	0.00	0.00
6,900.0	8.00	290.93	6,852.6	248.6	-650.0	-254.0	0.00	0.00	0.00
7,000.0	8.00	290.93	6,951.7	253.6	-663.0	-259.1	0.00	0.00	0.00
7,100.0	8.00	290.93	7,050.7	258.5	-676.0	-264.2	0.00	0.00	0.00
7,200.0	8.00	290.93	7,149.7	263.5	-689.0	-269.3	0.00	0.00	0.00
7,300.0	8.00	290.93	7,248.7	268.5	-702.0	-274.4	0.00	0.00	0.00
7,400.0	8.00	290.93	7,347.8	273.5	-715.0	-279.4	0.00	0.00	0.00
7,500.0	8.00	290.93	7,446.8	278.4	-728.0	-284.5	0.00	0.00	0.00
7,600.0	8.00	290.93	7,545.8	283.4	-741.0	-289.6	0.00	0.00	0.00
7,700.0	8.00	290.93	7,644.9	288.4	-754.0	-294.7	0.00	0.00	0.00
7,800.0	8.00	290.93	7,743.9	293.3	-767.0	-299.8	0.00	0.00	0.00
7,825.9	8.00	290.93	7,769.5	294.6	-770.4	-301.1	0.00	0.00	0.00
Depth (G5: L. Brushy Cyn.)									
7,900.0	8.00	290.93	7,842.9	298.3	-780.0	-304.8	0.00	0.00	0.00
8,000.0	8.00	290.93	7,941.9	303.3	-793.0	-309.9	0.00	0.00	0.00
8,093.6	8.00	290.93	8,034.7	307.9	-805.2	-314.7	0.00	0.00	0.00
Start Drop -1.50									
8,100.0	7.90	290.93	8,041.0	308.3	-806.0	-315.0	1.50	-1.50	0.00
8,135.6	7.37	290.93	8,076.3	309.9	-810.4	-316.7	1.50	-1.50	0.00
Depth (G4: BSG L (CS9))									
8,200.0	6.40	290.93	8,140.2	312.7	-817.7	-319.5	1.50	-1.50	0.00
8,300.0	4.90	290.93	8,239.7	316.2	-826.9	-323.1	1.50	-1.50	0.00
8,400.0	3.40	290.93	8,339.4	318.8	-833.6	-325.8	1.50	-1.50	0.00
8,500.0	1.90	290.93	8,439.3	320.5	-838.0	-327.5	1.50	-1.50	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Dee Osborne 1930 State Com #123H
Company:	Matador Production Company	TVD Reference:	KB @ 3670.1usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3670.1usft
Site:	Dee Osborne	North Reference:	Grid
Well:	Dee Osborne 1930 State Com #123H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,600.0	0.40	290.93	8,539.3	321.2	-839.8	-328.2	1.50	-1.50	0.00
8,621.8	0.08	290.93	8,561.0	321.2	-839.9	-328.2	1.50	-1.50	0.00
Depth (L8.2: U. Avalon Shale)									
8,627.0	0.00	0.00	8,566.3	321.2	-839.9	-328.2	1.50	-1.50	0.00
Start 878.7 hold at 8627.0 MD									
8,685.8	0.00	0.00	8,625.0	321.2	-839.9	-328.2	0.00	0.00	0.00
Depth (L6.3: Avalon Carb)									
8,700.0	0.00	0.00	8,639.3	321.2	-839.9	-328.2	0.00	0.00	0.00
8,800.0	0.00	0.00	8,739.3	321.2	-839.9	-328.2	0.00	0.00	0.00
8,900.0	0.00	0.00	8,839.3	321.2	-839.9	-328.2	0.00	0.00	0.00
9,000.0	0.00	0.00	8,939.3	321.2	-839.9	-328.2	0.00	0.00	0.00
9,069.8	0.00	0.00	9,009.0	321.2	-839.9	-328.2	0.00	0.00	0.00
Depth (L6.2: L. Avalon Shale)									
9,100.0	0.00	0.00	9,039.3	321.2	-839.9	-328.2	0.00	0.00	0.00
9,197.8	0.00	0.00	9,137.0	321.2	-839.9	-328.2	0.00	0.00	0.00
Depth (L5.3: FBSC)									
9,200.0	0.00	0.00	9,139.3	321.2	-839.9	-328.2	0.00	0.00	0.00
9,275.8	0.00	0.00	9,215.0	321.2	-839.9	-328.2	0.00	0.00	0.00
Depth (L5.1: FBSC)									
9,300.0	0.00	0.00	9,239.3	321.2	-839.9	-328.2	0.00	0.00	0.00
9,357.8	0.00	0.00	9,297.0	321.2	-839.9	-328.2	0.00	0.00	0.00
Depth (M. FBSC)									
9,400.0	0.00	0.00	9,339.3	321.2	-839.9	-328.2	0.00	0.00	0.00
9,416.8	0.00	0.00	9,356.0	321.2	-839.9	-328.2	0.00	0.00	0.00
Depth (L. FBSC)									
9,459.8	0.00	0.00	9,399.0	321.2	-839.9	-328.2	0.00	0.00	0.00
Depth (L4.3: SBSC)									
9,500.0	0.00	0.00	9,439.3	321.2	-839.9	-328.2	0.00	0.00	0.00
9,505.7	0.00	0.00	9,445.0	321.2	-839.9	-328.2	0.00	0.00	0.00
Start Build 10.00 - VP - Dee Osborne State Com #123H									
9,600.0	9.43	179.52	9,538.9	313.5	-839.9	-320.5	10.00	10.00	0.00
9,700.0	19.43	179.52	9,635.6	288.6	-839.6	-295.6	10.00	10.00	0.00
9,800.0	29.43	179.52	9,726.5	247.3	-839.3	-254.3	10.00	10.00	0.00
9,852.4	34.67	179.52	9,770.9	219.5	-839.1	-226.5	10.00	10.00	0.00
Depth (L4.1: SBSC)									
9,900.0	39.43	179.52	9,808.9	190.8	-838.8	-197.8	10.00	10.00	0.00
10,000.0	49.43	179.52	9,880.2	120.9	-838.2	-127.9	10.00	10.00	0.00
10,007.1	50.13	179.52	9,884.8	115.5	-838.2	-122.5	10.00	10.00	0.00
Depth (L4.1: SBSC B Carb)									
10,100.0	59.43	179.52	9,938.3	39.7	-837.6	-46.7	10.00	10.00	0.00
10,165.2	65.95	179.52	9,968.2	-18.2	-837.1	11.2	10.00	10.00	0.00
Depth (SBSC B Target)									
10,200.0	69.43	179.52	9,981.4	-50.4	-836.8	43.4	10.00	10.00	0.00
10,300.0	79.43	179.52	10,008.2	-146.6	-836.0	139.6	10.00	10.00	0.00
10,395.3	88.96	179.52	10,017.9	-241.3	-835.2	234.3	10.00	10.00	0.00
Start 76.2 hold at 10395.3 MD									
10,400.0	88.96	179.52	10,017.9	-246.0	-835.2	239.0	0.00	0.00	0.00
10,471.5	88.96	179.52	10,019.2	-317.5	-834.6	310.5	0.00	0.00	0.00
Start 9812.2 hold at 10471.5 MD									
10,500.0	88.96	179.52	10,019.8	-346.0	-834.3	339.0	0.00	0.00	0.00
10,600.0	88.96	179.52	10,021.6	-446.0	-833.5	439.0	0.00	0.00	0.00
10,700.0	88.96	179.52	10,023.4	-545.9	-832.7	539.0	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Dee Osborne 1930 State Com #123H
Company:	Matador Production Company	TVD Reference:	KB @ 3670.1usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3670.1usft
Site:	Dee Osborne	North Reference:	Grid
Well:	Dee Osborne 1930 State Com #123H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,800.0	88.96	179.52	10,025.2	-645.9	-831.8	638.9	0.00	0.00	0.00
10,900.0	88.96	179.52	10,027.0	-745.9	-831.0	738.9	0.00	0.00	0.00
11,000.0	88.96	179.52	10,028.8	-845.9	-830.1	838.9	0.00	0.00	0.00
11,100.0	88.96	179.52	10,030.7	-945.9	-829.3	938.9	0.00	0.00	0.00
11,200.0	88.96	179.52	10,032.5	-1,045.8	-828.5	1,038.9	0.00	0.00	0.00
11,300.0	88.96	179.52	10,034.3	-1,145.8	-827.6	1,138.9	0.00	0.00	0.00
11,400.0	88.96	179.52	10,036.1	-1,245.8	-826.8	1,238.8	0.00	0.00	0.00
11,500.0	88.96	179.52	10,037.9	-1,345.8	-826.0	1,338.8	0.00	0.00	0.00
11,600.0	88.96	179.52	10,039.7	-1,445.8	-825.1	1,438.8	0.00	0.00	0.00
11,700.0	88.96	179.52	10,041.5	-1,545.7	-824.3	1,538.8	0.00	0.00	0.00
11,800.0	88.96	179.52	10,043.4	-1,645.7	-823.4	1,638.8	0.00	0.00	0.00
11,900.0	88.96	179.52	10,045.2	-1,745.7	-822.6	1,738.8	0.00	0.00	0.00
12,000.0	88.96	179.52	10,047.0	-1,845.7	-821.8	1,838.7	0.00	0.00	0.00
12,100.0	88.96	179.52	10,048.8	-1,945.7	-820.9	1,938.7	0.00	0.00	0.00
12,200.0	88.96	179.52	10,050.6	-2,045.6	-820.1	2,038.7	0.00	0.00	0.00
12,300.0	88.96	179.52	10,052.4	-2,145.6	-819.3	2,138.7	0.00	0.00	0.00
12,400.0	88.96	179.52	10,054.3	-2,245.6	-818.4	2,238.7	0.00	0.00	0.00
12,500.0	88.96	179.52	10,056.1	-2,345.6	-817.6	2,338.7	0.00	0.00	0.00
12,600.0	88.96	179.52	10,057.9	-2,445.6	-816.7	2,438.6	0.00	0.00	0.00
12,700.0	88.96	179.52	10,059.7	-2,545.5	-815.9	2,538.6	0.00	0.00	0.00
12,800.0	88.96	179.52	10,061.5	-2,645.5	-815.1	2,638.6	0.00	0.00	0.00
12,900.0	88.96	179.52	10,063.3	-2,745.5	-814.2	2,738.6	0.00	0.00	0.00
13,000.0	88.96	179.52	10,065.1	-2,845.5	-813.4	2,838.6	0.00	0.00	0.00
13,100.0	88.96	179.52	10,067.0	-2,945.5	-812.6	2,938.6	0.00	0.00	0.00
13,200.0	88.96	179.52	10,068.8	-3,045.4	-811.7	3,038.5	0.00	0.00	0.00
13,300.0	88.96	179.52	10,070.6	-3,145.4	-810.9	3,138.5	0.00	0.00	0.00
13,400.0	88.96	179.52	10,072.4	-3,245.4	-810.0	3,238.5	0.00	0.00	0.00
13,500.0	88.96	179.52	10,074.2	-3,345.4	-809.2	3,338.5	0.00	0.00	0.00
13,600.0	88.96	179.52	10,076.0	-3,445.4	-808.4	3,438.5	0.00	0.00	0.00
13,700.0	88.96	179.52	10,077.8	-3,545.3	-807.5	3,538.5	0.00	0.00	0.00
13,800.0	88.96	179.52	10,079.7	-3,645.3	-806.7	3,638.4	0.00	0.00	0.00
13,900.0	88.96	179.52	10,081.5	-3,745.3	-805.9	3,738.4	0.00	0.00	0.00
14,000.0	88.96	179.52	10,083.3	-3,845.3	-805.0	3,838.4	0.00	0.00	0.00
14,100.0	88.96	179.52	10,085.1	-3,945.3	-804.2	3,938.4	0.00	0.00	0.00
14,200.0	88.96	179.52	10,086.9	-4,045.2	-803.3	4,038.4	0.00	0.00	0.00
14,300.0	88.96	179.52	10,088.7	-4,145.2	-802.5	4,138.4	0.00	0.00	0.00
14,400.0	88.96	179.52	10,090.6	-4,245.2	-801.7	4,238.3	0.00	0.00	0.00
14,500.0	88.96	179.52	10,092.4	-4,345.2	-800.8	4,338.3	0.00	0.00	0.00
14,600.0	88.96	179.52	10,094.2	-4,445.2	-800.0	4,438.3	0.00	0.00	0.00
14,700.0	88.96	179.52	10,096.0	-4,545.1	-799.2	4,538.3	0.00	0.00	0.00
14,800.0	88.96	179.52	10,097.8	-4,645.1	-798.3	4,638.3	0.00	0.00	0.00
14,900.0	88.96	179.52	10,099.6	-4,745.1	-797.5	4,738.3	0.00	0.00	0.00
15,000.0	88.96	179.52	10,101.4	-4,845.1	-796.6	4,838.2	0.00	0.00	0.00
15,100.0	88.96	179.52	10,103.3	-4,945.1	-795.8	4,938.2	0.00	0.00	0.00
15,200.0	88.96	179.52	10,105.1	-5,045.0	-795.0	5,038.2	0.00	0.00	0.00
15,300.0	88.96	179.52	10,106.9	-5,145.0	-794.1	5,138.2	0.00	0.00	0.00
15,400.0	88.96	179.52	10,108.7	-5,245.0	-793.3	5,238.2	0.00	0.00	0.00
15,500.0	88.96	179.52	10,110.5	-5,345.0	-792.5	5,338.2	0.00	0.00	0.00
15,600.0	88.96	179.52	10,112.3	-5,445.0	-791.6	5,438.1	0.00	0.00	0.00
15,700.0	88.96	179.52	10,114.1	-5,544.9	-790.8	5,538.1	0.00	0.00	0.00
15,800.0	88.96	179.52	10,116.0	-5,644.9	-789.9	5,638.1	0.00	0.00	0.00
15,900.0	88.96	179.52	10,117.8	-5,744.9	-789.1	5,738.1	0.00	0.00	0.00
16,000.0	88.96	179.52	10,119.6	-5,844.9	-788.3	5,838.1	0.00	0.00	0.00
16,100.0	88.96	179.52	10,121.4	-5,944.9	-787.4	5,938.1	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Dee Osborne 1930 State Com #123H
Company:	Matador Production Company	TVD Reference:	KB @ 3670.1usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3670.1usft
Site:	Dee Osborne	North Reference:	Grid
Well:	Dee Osborne 1930 State Com #123H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,200.0	88.96	179.52	10,123.2	-6,044.8	-786.6	6,038.0	0.00	0.00	0.00
16,300.0	88.96	179.52	10,125.0	-6,144.8	-785.8	6,138.0	0.00	0.00	0.00
16,400.0	88.96	179.52	10,126.9	-6,244.8	-784.9	6,238.0	0.00	0.00	0.00
16,500.0	88.96	179.52	10,128.7	-6,344.8	-784.1	6,338.0	0.00	0.00	0.00
16,600.0	88.96	179.52	10,130.5	-6,444.8	-783.2	6,438.0	0.00	0.00	0.00
16,700.0	88.96	179.52	10,132.3	-6,544.7	-782.4	6,538.0	0.00	0.00	0.00
16,800.0	88.96	179.52	10,134.1	-6,644.7	-781.6	6,637.9	0.00	0.00	0.00
16,900.0	88.96	179.52	10,135.9	-6,744.7	-780.7	6,737.9	0.00	0.00	0.00
17,000.0	88.96	179.52	10,137.7	-6,844.7	-779.9	6,837.9	0.00	0.00	0.00
17,100.0	88.96	179.52	10,139.6	-6,944.7	-779.1	6,937.9	0.00	0.00	0.00
17,200.0	88.96	179.52	10,141.4	-7,044.6	-778.2	7,037.9	0.00	0.00	0.00
17,300.0	88.96	179.52	10,143.2	-7,144.6	-777.4	7,137.9	0.00	0.00	0.00
17,400.0	88.96	179.52	10,145.0	-7,244.6	-776.5	7,237.8	0.00	0.00	0.00
17,500.0	88.96	179.52	10,146.8	-7,344.6	-775.7	7,337.8	0.00	0.00	0.00
17,600.0	88.96	179.52	10,148.6	-7,444.6	-774.9	7,437.8	0.00	0.00	0.00
17,700.0	88.96	179.52	10,150.4	-7,544.5	-774.0	7,537.8	0.00	0.00	0.00
17,800.0	88.96	179.52	10,152.3	-7,644.5	-773.2	7,637.8	0.00	0.00	0.00
17,900.0	88.96	179.52	10,154.1	-7,744.5	-772.4	7,737.8	0.00	0.00	0.00
18,000.0	88.96	179.52	10,155.9	-7,844.5	-771.5	7,837.8	0.00	0.00	0.00
18,100.0	88.96	179.52	10,157.7	-7,944.5	-770.7	7,937.7	0.00	0.00	0.00
18,200.0	88.96	179.52	10,159.5	-8,044.4	-769.8	8,037.7	0.00	0.00	0.00
18,300.0	88.96	179.52	10,161.3	-8,144.4	-769.0	8,137.7	0.00	0.00	0.00
18,400.0	88.96	179.52	10,163.2	-8,244.4	-768.2	8,237.7	0.00	0.00	0.00
18,500.0	88.96	179.52	10,165.0	-8,344.4	-767.3	8,337.7	0.00	0.00	0.00
18,600.0	88.96	179.52	10,166.8	-8,444.4	-766.5	8,437.7	0.00	0.00	0.00
18,700.0	88.96	179.52	10,168.6	-8,544.3	-765.6	8,537.6	0.00	0.00	0.00
18,800.0	88.96	179.52	10,170.4	-8,644.3	-764.8	8,637.6	0.00	0.00	0.00
18,900.0	88.96	179.52	10,172.2	-8,744.3	-764.0	8,737.6	0.00	0.00	0.00
19,000.0	88.96	179.52	10,174.0	-8,844.3	-763.1	8,837.6	0.00	0.00	0.00
19,100.0	88.96	179.52	10,175.9	-8,944.3	-762.3	8,937.6	0.00	0.00	0.00
19,200.0	88.96	179.52	10,177.7	-9,044.2	-761.5	9,037.6	0.00	0.00	0.00
19,300.0	88.96	179.52	10,179.5	-9,144.2	-760.6	9,137.5	0.00	0.00	0.00
19,400.0	88.96	179.52	10,181.3	-9,244.2	-759.8	9,237.5	0.00	0.00	0.00
19,500.0	88.96	179.52	10,183.1	-9,344.2	-758.9	9,337.5	0.00	0.00	0.00
19,600.0	88.96	179.52	10,184.9	-9,444.2	-758.1	9,437.5	0.00	0.00	0.00
19,700.0	88.96	179.52	10,186.8	-9,544.1	-757.3	9,537.5	0.00	0.00	0.00
19,800.0	88.96	179.52	10,188.6	-9,644.1	-756.4	9,637.5	0.00	0.00	0.00
19,900.0	88.96	179.52	10,190.4	-9,744.1	-755.6	9,737.4	0.00	0.00	0.00
20,000.0	88.96	179.52	10,192.2	-9,844.1	-754.8	9,837.4	0.00	0.00	0.00
20,100.0	88.96	179.52	10,194.0	-9,944.1	-753.9	9,937.4	0.00	0.00	0.00
20,200.0	88.96	179.52	10,195.8	-10,044.0	-753.1	10,037.4	0.00	0.00	0.00
20,283.7	88.96	179.52	10,198.1	-10,127.7	-752.5	10,121.1	0.00	0.00	0.00
TD at 20283.7 - BHL - Dee Osborne State Com #123H									

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Dee Osborne 1930 State Com #123H
Company:	Matador Production Company	TVD Reference:	KB @ 3670.1usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3670.1usft
Site:	Dee Osborne	North Reference:	Grid
Well:	Dee Osborne 1930 State Com #123H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VP - Dee Osborne Str - plan hits target center - Point	0.00	0.00	9,445.0	321.2	-839.9	536,493.50	786,225.60	32° 28' 17.439 N	103° 24' 18.885 W
BHL - Dee Osborne S - plan hits target center - Point	0.00	0.00	10,198.1	-10,127.7	-752.5	526,044.73	786,312.95	32° 26' 34.044 N	103° 24' 18.925 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,701.0	1,701.2	Depth (Rustler)		1.04	179.52
2,101.9	2,101.0	Depth (Salado)		1.04	179.52
3,519.0	3,504.7	Depth (G30:CS14-CSB)		1.04	179.52
4,053.7	4,034.2	Depth (Capitan (T))		1.04	179.52
5,703.2	5,667.7	Depth (G13: Cherry Cyn.)		1.04	179.52
6,740.3	6,694.7	Depth (G7: Brushy Cyn.)		1.04	179.52
7,825.9	7,769.7	Depth (G5: L. Brushy Cyn.)		1.04	179.52
8,135.6	8,076.5	Depth (G4: BSG (CS9))		1.04	179.52
8,621.8	8,561.2	Depth (L8.2: U. Avalon Shale)		1.04	179.52
8,685.8	8,625.2	Depth (L6.3: Avalon Carb)		1.04	179.52
9,069.8	9,009.2	Depth (L6.2: L. Avalon Shale)		1.04	179.52
9,197.8	9,137.2	Depth (L5.3: FBSC)		1.04	179.52
9,275.8	9,215.2	Depth (L5.1: FBSC)		1.04	179.52
9,357.8	9,297.2	Depth (M. FBSC)		1.04	179.52
9,416.8	9,356.2	Depth (L. FBSC)		1.04	179.52
9,459.8	9,399.2	Depth (L4.3: SBSC)		1.04	179.52
9,852.4	9,771.1	Depth (L4.1: SBSC)		1.04	179.52
10,007.1	9,885.0	Depth (L4.1: SBSC B Carb)		1.04	179.52
10,165.2	9,968.4	Depth (SBSC B Target)		1.04	179.52

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,500.0	1,500.0	0.0	0.0	Start Build 1.00
2,300.0	2,297.4	19.9	-52.1	Start 5793.6 hold at 2300.0 MD
8,093.6	8,034.7	307.9	-805.2	Start Drop -1.50
8,627.0	8,566.3	321.2	-839.9	Start 878.7 hold at 8627.0 MD
9,505.7	9,445.0	321.2	-839.9	Start Build 10.00
10,395.3	10,017.9	-241.3	-835.2	Start 76.2 hold at 10395.3 MD
10,471.5	10,019.2	-317.5	-834.6	Start 9812.2 hold at 10471.5 MD
20,283.7	10,197.3	-10,127.8	-752.4	TD at 20283.7

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Matador Production Company **OGRID:** 228937 **Date:** 3-28-22

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Dee Osbourne 1930 State Com #121H	TBD	UL-1 Sec 19 T21S R35E	150' FNL 1,140' FWL	1,000	1,500	5,000
Dee Osbourne 1930 State Com #122H	TBD	UL-1 Sec 19 T21S R35E	180' FNL 1,140' FWL	1,000	1,500	5,000
Dee Osbourne 1930 State Com #123H	TBD	UL-A Sec 19 T21S R35E	240' FNL 1,100' FEL	1,000	1,500	5,000
Dee Osbourne 1930 State Com #124H	TBD	UL-A Sec 19 T21S R35E	270' FNL 1,100' FEL	1,000	1,500	5,000

IV. Central Delivery Point Name: Dee Osbourne TB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Dee Osbourne 1930 State Com #121H	TBD	6/6/2022	7/6/2022	9/27/2022	10/23/2022	10/23/2022
Dee Osbourne 1930 State Com #122H	TBD	7/14/2022	8/14/2022	9/27/2022	10/23/2022	10/23/2022
Dee Osbourne 1930 State Com #123H	TBD	8/07/2022	9/07/2022	9/27/2022	10/23/2022	10/23/2022
Dee Osbourne 1930 State Com #124H	TBD	8/22/2022	9/22/2022	9/27/2022	10/23/2022	10/23/2022

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications**Effective May 25, 2021**

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☐ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☒ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices


1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Ryan Hernandez
Title: Production Engineer
E-mail Address: rhernandez@matadorresources.com
Date: 3-28-22
Phone: (972) 619-1276
<p style="text-align: center;">OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)</p>
Approved By:
Title:
Approval Date:
Conditions of Approval:

Addendum to Natural Gas Management Plan for Matador's**Dee Osbourne 1930 State Com #121H #122H #123H #124H****VI. Separation Equipment**

Flow from each well will be routed via a flowline to a 48"x15' three phase separator dedicated to the well. The first stage separators are sized with input from BRE ProMax and API 12J. Expected production from each well is approximately 1,100 mcf/d, 900 bopd, and 1,500 bwpd. Liquid retention times at expected maximum rates will be >3 minutes. Gas will be routed from the first stage separator to sales. Hydrocarbon liquids are dumped from the first stage separator and commingled to one or more heater treaters. The flash gas from the heater treater(s) could either be sent to sales or routed to a compressor if the sales line pressure is higher than the MAWP of the heater treater (125 psi). From the heater treaters, hydrocarbon liquid will be routed to the tanks where vapor is compressed by a VRU if technically feasible to either sales or a compressor if the sales line pressure is higher than the VRU's maximum discharge pressure (~150 psi). Therefore, Matador has sized our separation equipment to optimize gas capture and our separation equipment is of sufficient size to handle the expected volumes of gas.

VII. Operation Practices

Although not a complete recitation of all our efforts to comply with a subsection A through F of 19.15.27.8 NMAC, a summary is as follows. During drilling, Matador will have a properly sized flare stack at least 100 feet from the nearest surface hole. During initial flowback we will route the flowback fluids into completion or storage tanks and, to the extent possible, flare rather than vent any gas. We will commence operation of a separator as soon as technically feasible, and have instructed our team that we want to connect the gas to sales as soon as possible but not later than 30 days after initial flowback.

Regarding production operations, we have designed our production facilities to be compliant with the requirements of Part E of 19.15.27.8 NMAC. We will instruct our team to perform the AVOs on the frequency required under the rules. While the well is producing, we will take steps to minimize flaring during maintenance, as set forth below, and we have a process in place for the measuring of any flared gas and the reporting of any reportable flaring events.

VII. Best Management Practices

Steps are taken to minimize venting during active or planned maintenance when technically feasible including:

- Isolating the affected component and reducing pressure through process piping
- Blowing down the equipment being maintained to a control device
- Performing preventative maintenance and minimizing the duration of maintenance activities
- Shutting in sources of supply as possible
- Other steps that are available depending on the maintenance being performed