

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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 395082

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
		3. API Number 30-025-55208
4. Property Code 337763	5. Property Name Art Smith State Com	6. Well No. 241H

7. Surface Location

UL - Lot D	Section 34	Township 18S	Range 34E	Lot Idn 4	Feet From 289	N/S Line N	Feet From 1249	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot M	Section 3	Township 19S	Range 34E	Lot Idn M	Feet From 110	N/S Line S	Feet From 660	E/W Line W	County Lea
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9. Pool Information

AIRSTRIP;WOLFCAMP	970
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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 4011
16. Multiple N	17. Proposed Depth 22376	18. Formation Wolfcamp	19. Contractor	20. Spud Date 1/15/2026
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	17.5	13.375	54.5	1900	1156	0
Int1	9.875	7.625	29.7	11353	1135	0
Prod	6.75	5.5	20	22376	755	11153

Casing/Cement Program: Additional Comments

Option to drill surface hole with surface setting rig. Option to drill 20" Surface. Option to offline cement surface casing. Option to run DV tool and Packer.
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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 hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable. Signature: Printed Name: Electronically filed by Brett A Jennings Title: Regulatory Analyst Email Address: brett.jennings@matadorresources.com Date: 8/11/2025	OIL CONSERVATION DIVISION Approved By: Jeffrey Harrison Title: Petroleum Specialist III Approved Date: 9/17/2025 Expiration Date: 9/17/2027 Conditions of Approval Attached
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C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☒ Initial Submittal
			☐ Amended Report
		☐ As Drilled	

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-55208	Pool Code 970	Pool Name Airstrip; Wolfcamp
Property Code 337763	Property Name ART SMITH STATE COM	Well Number 241H
OGRID No. 228937	Operator Name MATADOR PRODUCTION COMPANY	Ground Level Elevation 4011'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
D	34	18-S	34-E	-	289' N	1249' W	N 32.7106650	W 103.5526739	LEA

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
M	3	19-S	34-E	-	110' S	660' W	N 32.6823418	W 103.5545791	LEA

Dedicated Acres 324.32	Infill or Defining Well Defining	Defining Well API Pending	Overlapping Spacing Unit (Y/N) N	Consolidated Code C
Order Numbers R-23482			Well Setbacks are under Common Ownership: ☐ Yes ☒ No	

Kick Off Point (KOP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
D	34	18-S	34-E	-	50' N	660' W	N 32.7113200	W 103.5545917	LEA

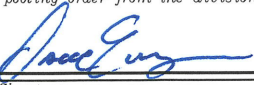
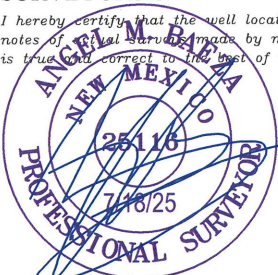
First Take Point (FTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
D	34	18-S	34-E	-	100' N	660' W	N 32.7111826	W 103.5545914	LEA

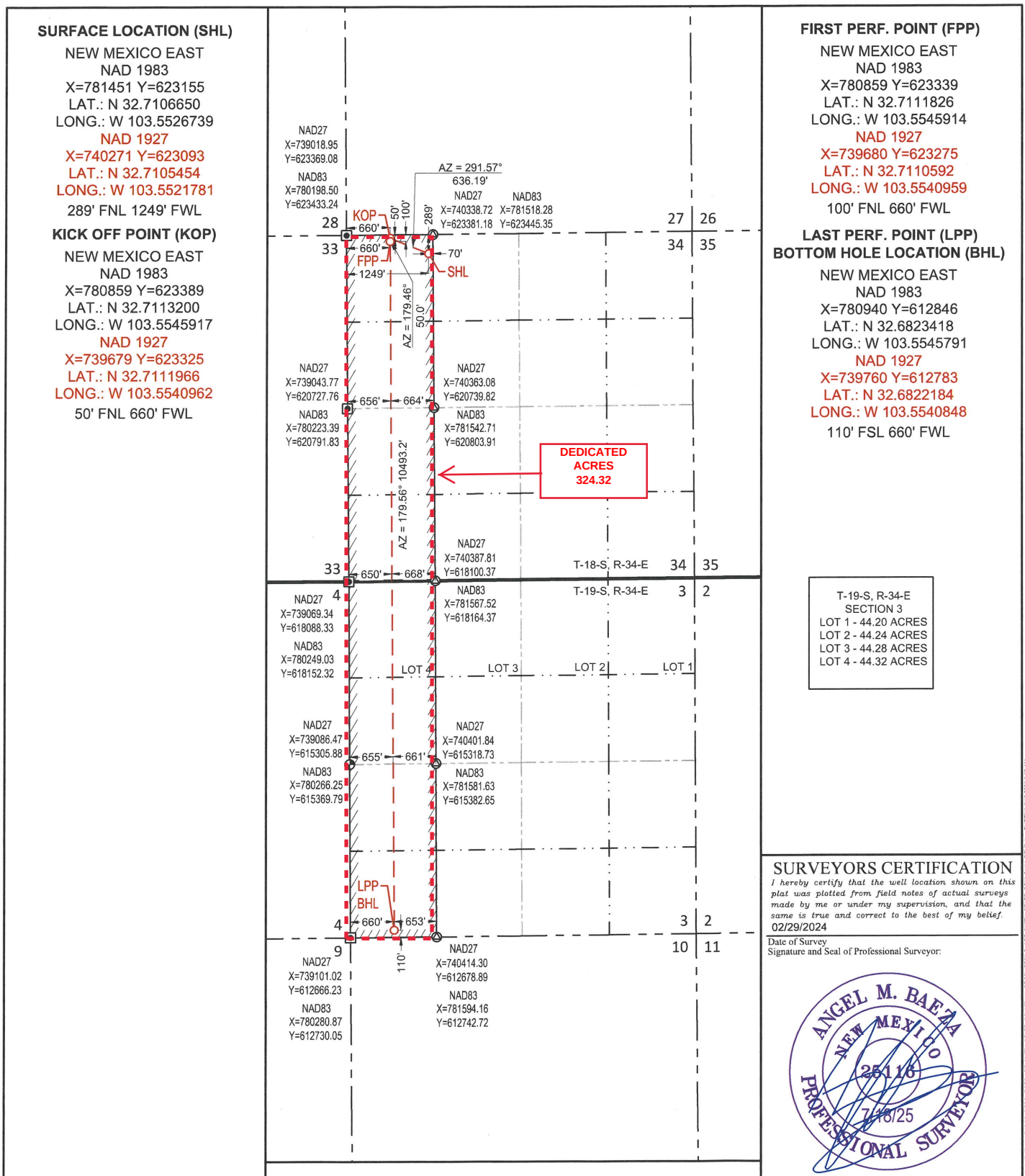
Last Take Point (LTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
M	3	19-S	34-E	-	110' S	660' W	N 32.6823418	W 103.5545791	LEA

Unitized Area or Area of Uniform Interest -	Spacing Unity Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation 4011'
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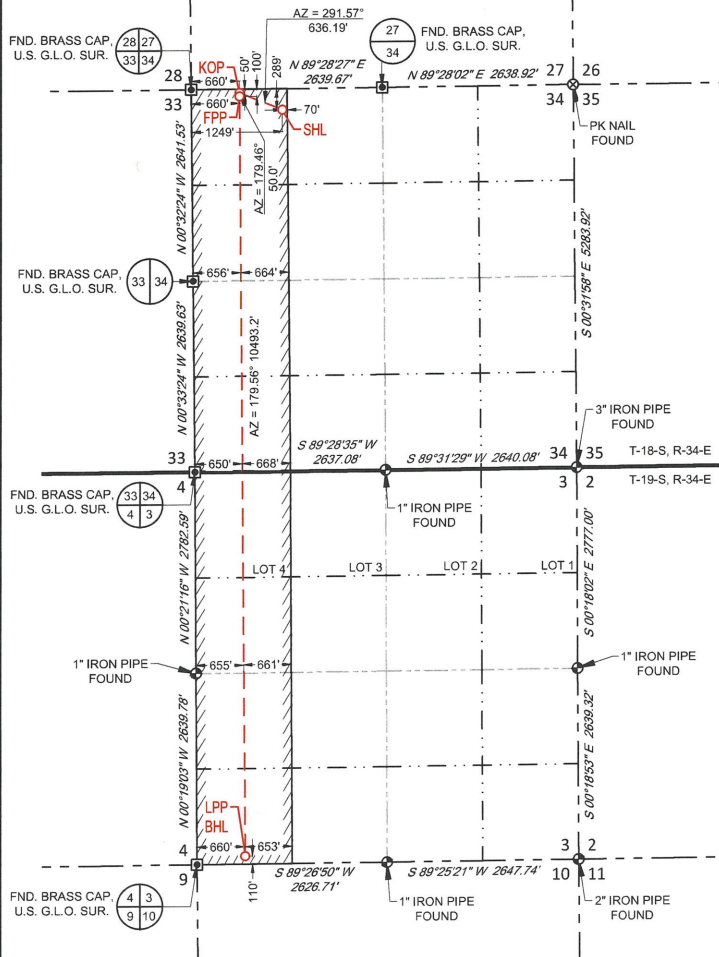
OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received The consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i>  Signature Isaac Evans Date 7-30-2025 Print Name isaac.evans@matadorresources.com E-mail Address		SURVEYORS CERTIFICATION <i>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.</i>  Signature and Seal of Professional Surveyor Date 02/29/2024 Certificate Number Date of Survey 02/29/2024	
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C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024 Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled
Property Name and Well Number ART SMITH STATE COM 241H		





SECTION 34, TOWNSHIP 18-S, RANGE 34-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



SURFACE LOCATION (SHL)

NEW MEXICO EAST
NAD 1983
X=781451 Y=623155
LAT.: N 32.7106650
LONG.: W 103.5526739
289' FNL 1249' FWL

KICK OFF POINT (KOP)

NEW MEXICO EAST
NAD 1983
X=780859 Y=623389
LAT.: N 32.7113200
LONG.: W 103.5545917
50' FNL 660' FWL

FIRST PERF. POINT (FPP)

NEW MEXICO EAST
NAD 1983
X=780859 Y=623339
LAT.: N 32.7111826
LONG.: W 103.5545914
100' FNL 660' FWL

LAST PERF. POINT (LPP)

BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST
NAD 1983
X=780940 Y=612846
LAT.: N 32.6823418
LONG.: W 103.5545791
110' FSL 660' FWL

T-19-S, R-34-E
SECTION 3
LOT 1 - 44.20 ACRES
LOT 2 - 44.24 ACRES
LOT 3 - 44.28 ACRES
LOT 4 - 44.32 ACRES

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

LEASE NAME & WELL NO.: ART SMITH STATE COM 241H

SECTION 34 TWP 18-S RGE 34-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 289' FNL & 1249' FWL

DISTANCE & DIRECTION

FROM INT. OF US-180 W/US-62 W. & NM-529, GO NORTHWEST ON NM-529
+9.3 MILES, THENCE SOUTHWEST (LEFT) ON A PROPOSED RD. +4027
FEET TO A POINT +590 FEET SOUTHEAST OF THE LOCATION.

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.



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

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSOFT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
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

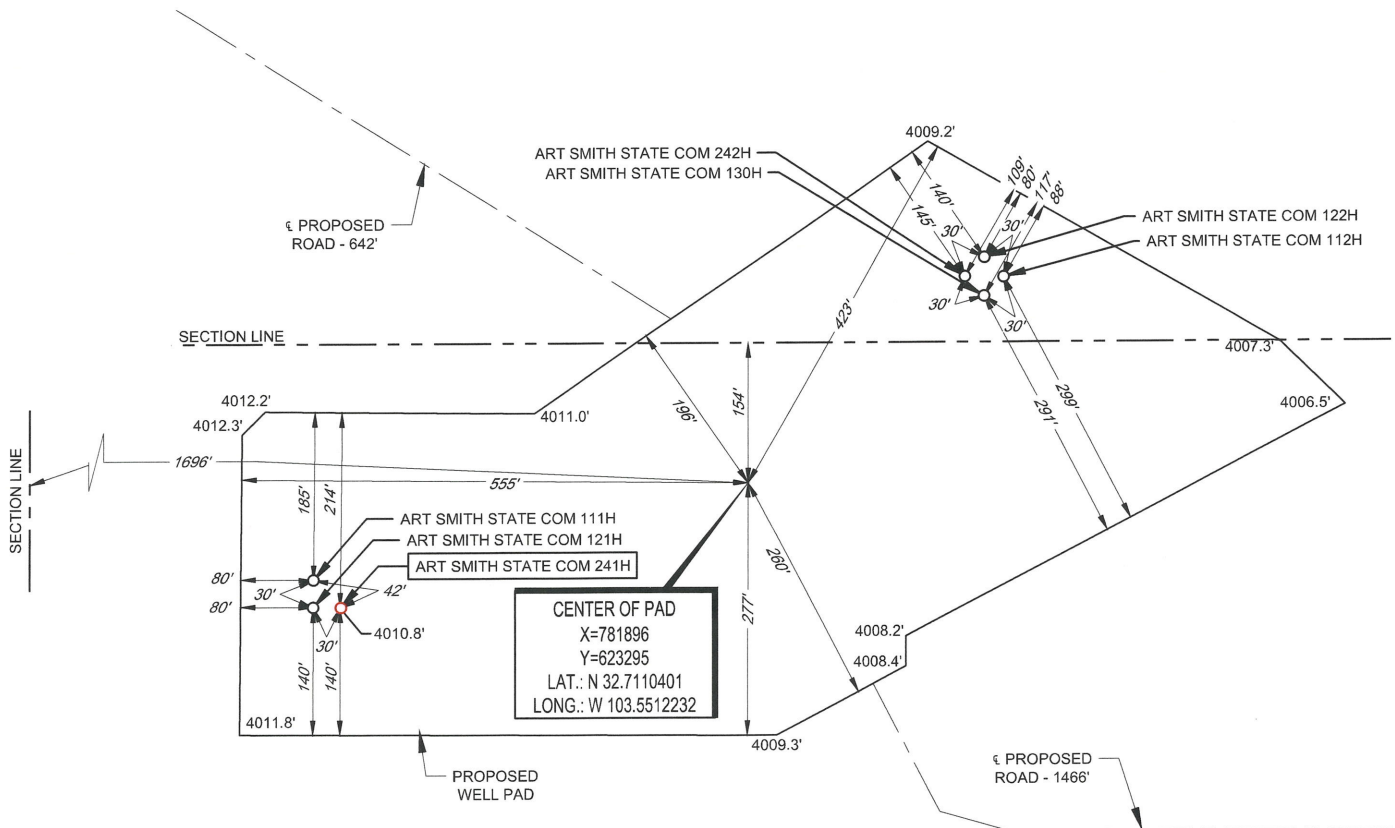
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LEGEND

SECTION LINE
PROPOSED ROAD

SECTION 34, TOWNSHIP 18-S, RANGE 34-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



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

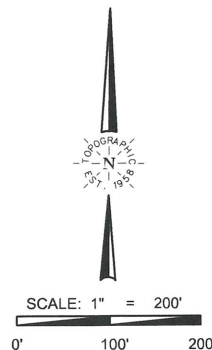
LEASE NAME & WELL NO.: ART SMITH STATE COM 241H
241H LATITUDE N 32.7106650 241H LONGITUDE W 103.5526739

CENTER OF PAD IS 154' FNL & 1696' FWL

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. ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO, ALL OTHER INFORMATION WAS INTENTIONALLY OMITTED. THIS PLAT IS ONLY INTENDED TO BE USED FOR A PERMIT AND IS NOT A BOUNDARY SURVEY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

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2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form APD Conditions

Permit 395082

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	API Number: 30-025-55208
	Well: Art Smith State Com #241H

OCD Reviewer	Condition
jeffrey.harrison	Surface casing shall be set a minimum of 25' into the Rustler Anhydrite, above the salt, and below usable fresh water and cemented to the surface. If salt is encountered set casing at least 25 ft. above the salt.
jeffrey.harrison	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.
jeffrey.harrison	All logs run on the well must be submitted to NMOCD.
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.
jeffrey.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing.
jeffrey.harrison	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.
jeffrey.harrison	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.
jeffrey.harrison	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.

Addendum to Natural Gas Management Plan for Matador's

Art Smith State Com 111H, 112H, 121H, 122H, 130H, 241H, 242H

VI. Separation Equipment

Flow from the wells 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. Anticipated production rates can be seen in the below table. 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.

Well Name	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Art Smith State Com 111H	900	1300	1500
Art Smith State Com 112H	900	1300	1500
Art Smith State Com 121H	900	1300	1500
Art Smith State Com 122H	900	1300	1500
Art Smith State Com 130H	900	1300	1500
Art Smith State Com 241H	800	1800	2100
Art Smith State Com 242H	800	1800	2100

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.

VIII. 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

Matador Production Company

Ranger/Arrowhead

Art Smith

Art Smith State Com #241H

Wellbore #1

State Plan #1

Anticollision Summary Report

17 July, 2025

Anticollision Summary Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Art Smith State Com #241H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 4039.5usft
Reference Site:	Art Smith	MD Reference:	KB @ 4039.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Art Smith State Com #241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Reference	State Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	7/17/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	22,376.3	State Plan #1 (Wellbore #1)	MWD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Art Smith						
Art Smith State Com #111H - Wellbore #1 - State Plan #1	1,681.9	1,679.6	41.8	30.3	3.623	CC
Art Smith State Com #111H - Wellbore #1 - State Plan #1	1,700.0	1,697.5	41.9	30.2	3.589	ES
Art Smith State Com #111H - Wellbore #1 - State Plan #1	1,800.0	1,796.2	44.0	31.7	3.564	SF
Art Smith State Com #112H - Wellbore #1 - State Plan #	1,400.0	1,398.0	813.0	803.4	84.959	CC, ES
Art Smith State Com #112H - Wellbore #1 - State Plan #	22,376.3	19,932.0	2,851.7	2,631.0	12.917	SF
Art Smith State Com #113H - Wellbore #1 - State Plan #	8,044.1	8,200.0	2,284.2	2,225.9	39.143	CC
Art Smith State Com #113H - Wellbore #1 - State Plan #	8,100.0	8,237.3	2,284.5	2,225.8	38.930	ES
Art Smith State Com #113H - Wellbore #1 - State Plan #	22,376.3	19,537.6	3,665.9	3,385.9	13.091	SF
Art Smith State Com #114H - Wellbore #1 - State Plan #	1,405.4	1,394.4	2,867.6	2,858.0	299.469	CC
Art Smith State Com #114H - Wellbore #1 - State Plan #	1,500.0	1,473.0	2,867.7	2,857.5	281.331	ES
Art Smith State Com #114H - Wellbore #1 - State Plan #	22,376.3	19,514.0	4,705.1	4,389.6	14.913	SF
Art Smith State Com #121H - Wellbore #1 - State Plan #	1,500.0	1,500.0	29.6	19.3	2.879	CC
Art Smith State Com #121H - Wellbore #1 - State Plan #	1,664.0	1,662.4	29.8	18.4	2.608	ES
Art Smith State Com #121H - Wellbore #1 - State Plan #	1,700.0	1,698.0	30.1	18.4	2.578	SF
Art Smith State Com #122H - Wellbore #1 - State Plan #	1,500.0	1,498.0	803.5	793.2	78.111	CC, ES
Art Smith State Com #122H - Wellbore #1 - State Plan #	22,376.3	20,384.9	2,428.1	2,189.7	10.184	SF
Art Smith State Com #127H - Wellbore #1 - State Plan #	8,516.3	8,679.3	2,378.2	2,316.4	38.510	CC, ES
Art Smith State Com #127H - Wellbore #1 - State Plan #	22,376.3	20,488.1	3,113.5	2,798.9	9.895	SF
Art Smith State Com #128H - Wellbore #1 - State Plan #	1,500.0	1,489.0	2,975.8	2,965.5	290.202	CC, ES
Art Smith State Com #128H - Wellbore #1 - State Plan #	22,376.3	20,456.6	4,288.7	3,950.5	12.682	SF
Art Smith State Com #130H - Wellbore #1 - State Plan #	10,771.9	21,468.4	120.7	3.5	1.030	Level 2, CC, ES, SF
Art Smith State Com #133H - Wellbore #1 - State Plan #	8,512.1	8,683.7	2,458.3	2,396.5	39.755	CC, ES
Art Smith State Com #133H - Wellbore #1 - State Plan #	22,376.3	20,975.8	2,905.2	2,573.3	8.753	SF
Art Smith State Com #134H - Wellbore #1 - State Plan #	1,500.0	1,488.0	3,084.1	3,073.9	300.878	CC, ES
Art Smith State Com #134H - Wellbore #1 - State Plan #	17,700.0	15,522.2	4,243.8	4,054.7	22.443	SF
Art Smith State Com #242H - Wellbore #1 - State Plan #	1,500.0	1,502.0	774.7	764.4	75.211	CC, ES
Art Smith State Com #242H - Wellbore #1 - State Plan #	22,376.3	22,366.4	1,320.0	961.2	3.679	SF
Art Smith State Com #243H - Wellbore #1 - State Plan #	8,708.7	8,886.5	2,548.6	2,485.3	40.262	CC
Art Smith State Com #243H - Wellbore #1 - State Plan #	22,376.3	22,445.6	2,634.9	2,273.8	7.297	ES, SF
Art Smith State Com #244H - Wellbore #1 - State Plan #	1,500.0	1,488.0	3,192.5	3,182.3	311.452	CC, ES
Art Smith State Com #244H - Wellbore #1 - State Plan #	22,375.8	22,410.2	3,954.9	3,593.7	10.951	SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Summary Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Art Smith State Com #241H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 4039.5usft
Reference Site:	Art Smith	MD Reference:	KB @ 4039.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Art Smith State Com #241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Jim Rolfe						
Jim Rolfe Fed Com #111H - Wellbore #1 - BLM Plan #1	1,681.1	1,685.0	35.2	23.6	3.022	CC
Jim Rolfe Fed Com #111H - Wellbore #1 - BLM Plan #1	1,700.0	1,703.8	35.3	23.5	2.989	ES
Jim Rolfe Fed Com #111H - Wellbore #1 - BLM Plan #1	1,800.0	1,803.5	36.6	24.0	2.918	SF
Jim Rolfe Fed Com #112H - Wellbore #1 - BLM Plan #1	1,000.0	1,000.0	100.6	93.9	14.997	CC, ES
Jim Rolfe Fed Com #112H - Wellbore #1 - BLM Plan #1	1,300.0	1,290.4	113.7	104.9	12.912	SF
Jim Rolfe Fed Com #113H - Wellbore #1 - BLM Plan #1	7,832.2	7,988.1	2,219.2	2,162.4	39.039	CC
Jim Rolfe Fed Com #113H - Wellbore #1 - BLM Plan #1	7,900.0	8,031.1	2,219.5	2,162.3	38.785	ES
Jim Rolfe Fed Com #113H - Wellbore #1 - BLM Plan #1	8,900.0	8,777.4	2,275.7	2,213.0	36.290	SF
Jim Rolfe Fed Com #114H - Wellbore #1 - BLM Plan #1	1,000.0	989.0	2,873.2	2,866.5	430.799	CC, ES
Jim Rolfe Fed Com #114H - Wellbore #1 - BLM Plan #1	9,300.0	8,850.0	3,636.8	3,573.1	57.083	SF
Jim Rolfe Fed Com #121H - Wellbore #1 - BLM Plan #1	2,931.9	2,945.8	72.7	51.5	3.423	CC
Jim Rolfe Fed Com #121H - Wellbore #1 - BLM Plan #1	3,000.0	3,013.6	72.9	51.2	3.350	ES
Jim Rolfe Fed Com #121H - Wellbore #1 - BLM Plan #1	3,200.0	3,212.9	76.0	52.7	3.267	SF
Jim Rolfe Fed Com #122H - Wellbore #1 - BLM Plan #1	1,000.0	999.0	210.4	203.7	31.385	CC, ES
Jim Rolfe Fed Com #122H - Wellbore #1 - BLM Plan #1	9,100.0	9,077.4	1,005.0	940.2	15.506	SF
Jim Rolfe Fed Com #123H - Wellbore #1 - BLM Plan #1	7,975.3	8,134.3	2,315.7	2,257.8	39.991	CC
Jim Rolfe Fed Com #123H - Wellbore #1 - BLM Plan #1	8,000.0	8,149.8	2,315.8	2,257.7	39.897	ES
Jim Rolfe Fed Com #123H - Wellbore #1 - BLM Plan #1	9,300.0	9,200.0	2,383.1	2,317.4	36.271	SF
Jim Rolfe Fed Com #124H - Wellbore #1 - BLM Plan #1	900.0	889.0	2,981.2	2,975.2	500.833	CC, ES
Jim Rolfe Fed Com #124H - Wellbore #1 - BLM Plan #1	9,800.0	9,350.0	3,756.8	3,689.6	55.948	SF
Jim Rolfe Fed Com #131H - Wellbore #1 - BLM Plan #1	4,207.1	4,230.0	104.2	72.9	3.333	CC
Jim Rolfe Fed Com #131H - Wellbore #1 - BLM Plan #1	4,300.0	4,322.6	104.4	72.5	3.267	ES
Jim Rolfe Fed Com #131H - Wellbore #1 - BLM Plan #1	10,011.4	10,049.1	176.2	103.7	2.431	SF
Jim Rolfe Fed Com #132H - Wellbore #1 - BLM Plan #1	1,000.0	999.0	320.4	313.7	47.782	CC, ES
Jim Rolfe Fed Com #132H - Wellbore #1 - BLM Plan #1	10,100.0	10,080.3	1,131.9	1,059.9	15.721	SF
Jim Rolfe Fed Com #133H - Wellbore #1 - BLM Plan #1	8,179.5	8,345.1	2,405.7	2,346.3	40.483	CC
Jim Rolfe Fed Com #133H - Wellbore #1 - BLM Plan #1	8,200.0	8,357.7	2,405.8	2,346.2	40.406	ES
Jim Rolfe Fed Com #133H - Wellbore #1 - BLM Plan #1	10,500.0	10,388.1	2,529.2	2,455.3	34.245	SF
Jim Rolfe Fed Com #134H - Wellbore #1 - BLM Plan #1	900.0	889.0	3,089.3	3,083.4	519.004	CC
Jim Rolfe Fed Com #134H - Wellbore #1 - BLM Plan #1	1,000.0	949.9	3,089.9	3,083.4	473.712	ES
Jim Rolfe Fed Com #134H - Wellbore #1 - BLM Plan #1	10,800.0	10,476.9	3,879.6	3,804.9	51.919	SF
Jim Rolfe Fed Com #241H - Wellbore #1 - BLM Plan #1	9,936.8	9,971.5	93.0	19.1	1.259	Level 3, CC
Jim Rolfe Fed Com #241H - Wellbore #1 - BLM Plan #1	10,100.0	10,134.4	93.5	18.4	1.246	Level 2, ES
Jim Rolfe Fed Com #241H - Wellbore #1 - BLM Plan #1	11,503.0	11,543.9	105.0	20.4	1.241	Level 2, SF
Jim Rolfe Fed Com #242H - Wellbore #1 - BLM Plan #1	1,000.0	999.0	430.4	423.7	64.183	CC, ES
Jim Rolfe Fed Com #242H - Wellbore #1 - BLM Plan #1	11,700.0	11,685.7	1,281.4	1,198.0	15.367	SF
Jim Rolfe Fed Com #243H - Wellbore #1 - BLM Plan #1	11,103.3	11,263.9	2,553.5	2,473.1	31.746	CC, ES
Jim Rolfe Fed Com #243H - Wellbore #1 - BLM Plan #1	11,750.0	11,723.8	2,570.4	2,486.6	30.650	SF
Jim Rolfe Fed Com #244H - Wellbore #1 - BLM Plan #1	1,000.0	988.0	3,197.6	3,190.9	479.706	CC
Jim Rolfe Fed Com #244H - Wellbore #1 - BLM Plan #1	1,100.0	1,049.4	3,198.1	3,190.9	441.874	ES
Jim Rolfe Fed Com #244H - Wellbore #1 - BLM Plan #1	11,900.0	11,951.7	3,975.1	3,891.1	47.315	SF
Jim Rolfe State #131Y - Wellbore #1 - Actual	9,440.7	9,321.0	5,158.9	5,091.7	76.782	CC
Jim Rolfe State #131Y - Wellbore #1 - Actual	9,500.0	9,334.8	5,159.1	5,091.6	76.510	ES
Jim Rolfe State #131Y - Wellbore #1 - Actual	10,400.0	9,445.0	5,235.8	5,165.9	74.906	SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Summary Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Art Smith State Com #241H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 4039.5usft
Reference Site:	Art Smith	MD Reference:	KB @ 4039.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Art Smith State Com #241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Ranger Wells						
Caprock 27 State Com #1H - Wellbore #1 - Actual	0.0	0.0	1,019.6			
Caprock 27 State Com #1H - Wellbore #1 - Actual	1,500.0	1,483.4	1,024.7	1,014.5	100.291	ES
Caprock 27 State Com #1H - Wellbore #1 - Actual	9,700.0	9,651.2	1,271.1	1,202.8	18.599	SF
Raptor West 3 State #4H - Wellbore #1 - Actual	20,218.3	12,428.6	4,400.7	4,215.1	23.717	CC
Raptor West 3 State #4H - Wellbore #1 - Actual	20,700.0	20,700.0	4,407.9	4,137.9	16.324	ES, SF
Tres Primos 3 State #2H - Wellbore #1 - Actual	21,873.9	15,364.3	1,228.0	1,106.7	10.128	CC
Tres Primos 3 State #2H - Wellbore #1 - Actual	22,000.0	15,463.4	1,228.0	1,104.7	9.956	ES
Tres Primos 3 State #2H - Wellbore #1 - Actual	22,100.0	15,484.0	1,230.7	1,105.9	9.864	SF
Tres Primos State #1 - Wellbore #1 - Actual	17,598.0	11,004.2	1,795.4	1,689.2	16.913	CC
Tres Primos State #1 - Wellbore #1 - Actual	22,000.0	15,366.9	1,818.3	1,614.7	8.930	ES
Tres Primos State #1 - Wellbore #1 - Actual	22,300.0	15,560.0	1,830.7	1,621.4	8.744	SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Summary Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Art Smith State Com #241H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 4039.5usft
Reference Site:	Art Smith	MD Reference:	KB @ 4039.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Art Smith State Com #241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 4039.5usft

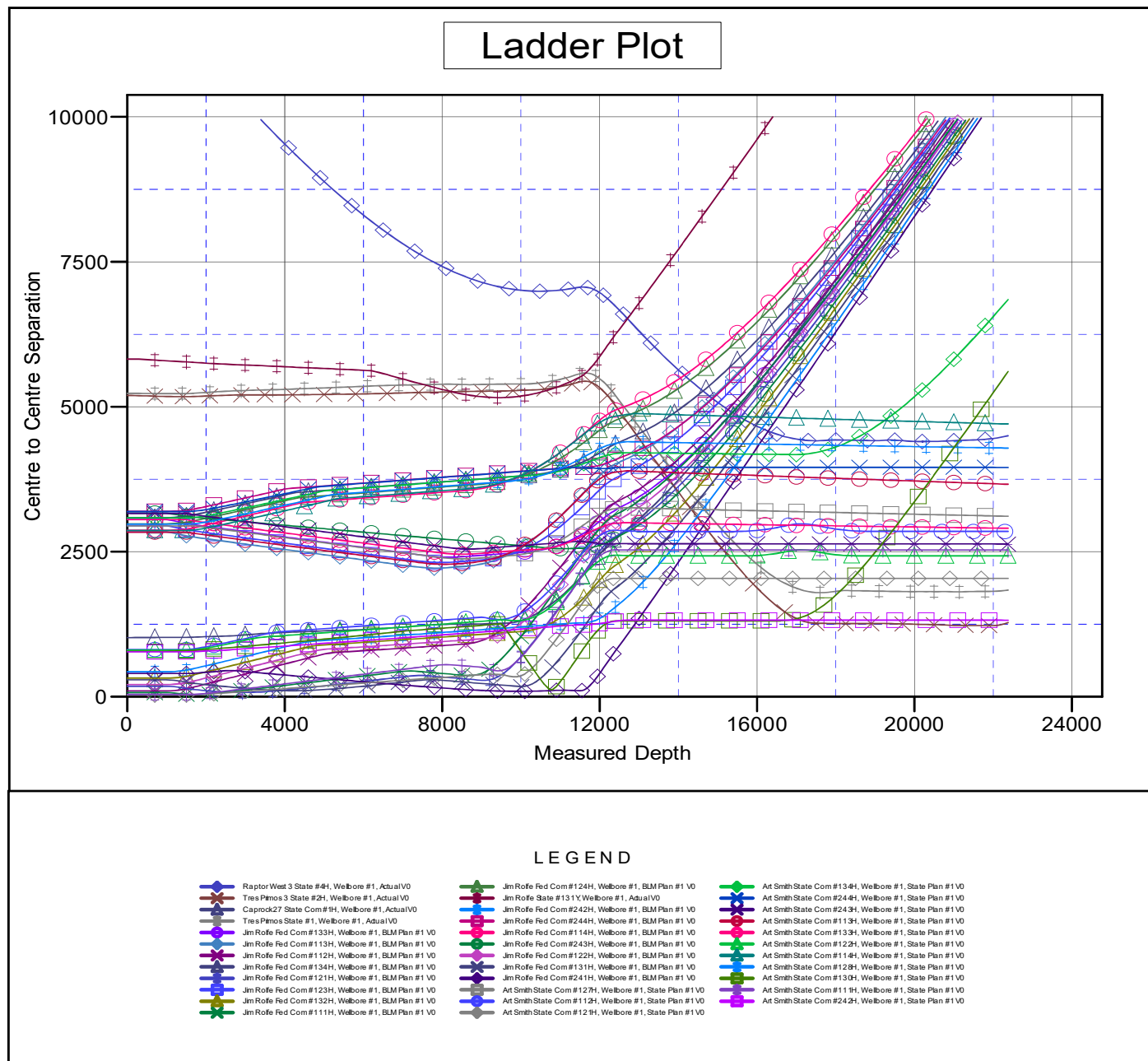
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Art Smith State Com #241H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.42°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Summary Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Art Smith State Com #241H
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 4039.5usft
Reference Site:	Art Smith	MD Reference:	KB @ 4039.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Art Smith State Com #241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 4039.5usft

Offset Depths are relative to Offset Datum

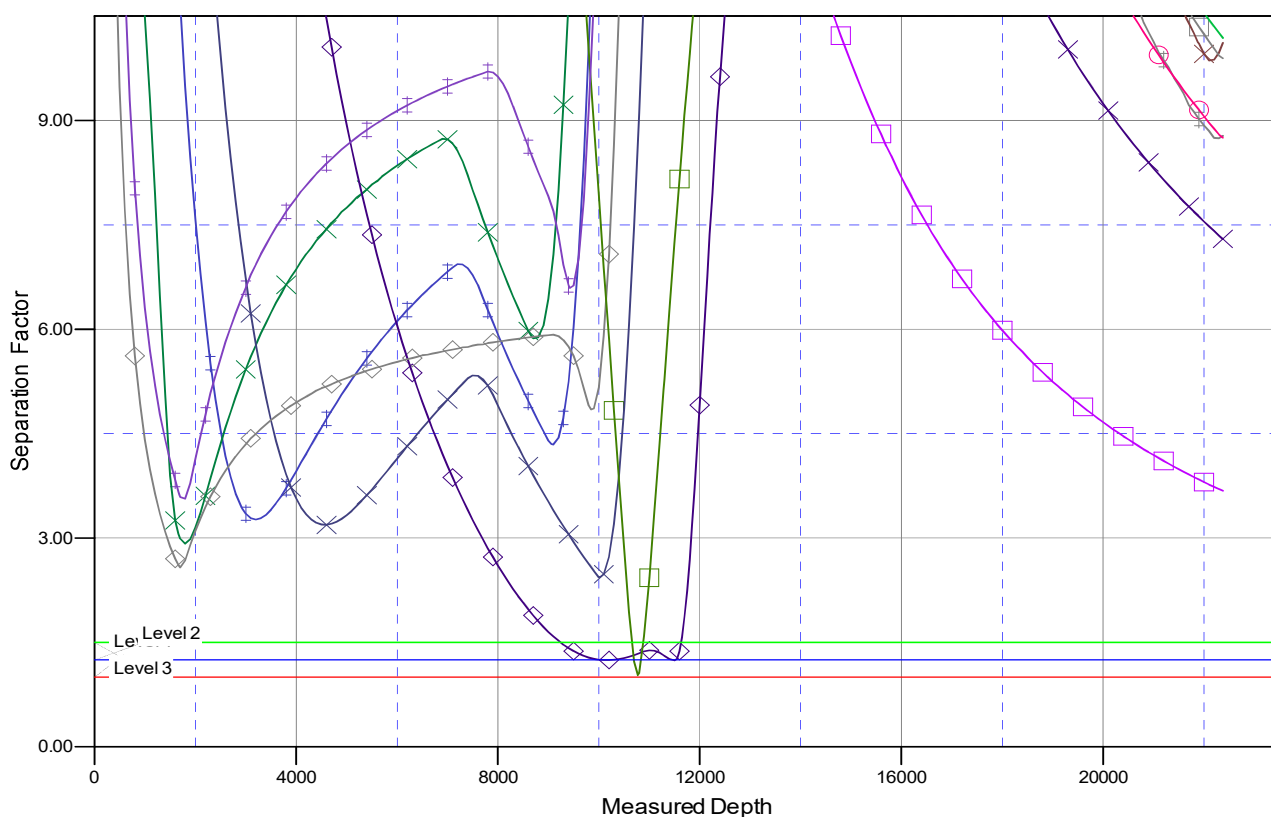
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Art Smith State Com #241H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.42°

Separation Factor Plot



LEGEND

Raptor West 3 State #4H, Wellbore #1, Actual VO	Jim Rofe Fed Com #124H, Wellbore #1, BLM Plan #1 VO	Art Smith State Com #134H, Wellbore #1, State Plan #1 VO
Tres Pinos 3 State #2H, Wellbore #1, Actual VO	Jim Rofe State #131Y, Wellbore #1, Actual VO	Art Smith State Com #244H, Wellbore #1, State Plan #1 VO
Caprock 27 State Com #1H, Wellbore #1, Actual VO	Jim Rofe Fed Com #242H, Wellbore #1, BLM Plan #1 VO	Art Smith State Com #243H, Wellbore #1, State Plan #1 VO
Tres Pinos State #1, Wellbore #1, Actual VO	Jim Rofe Fed Com #244H, Wellbore #1, BLM Plan #1 VO	Art Smith State Com #113H, Wellbore #1, State Plan #1 VO
Jim Rofe Fed Com #133H, Wellbore #1, BLM Plan #1 VO	Jim Rofe Fed Com #114H, Wellbore #1, BLM Plan #1 VO	Art Smith State Com #133H, Wellbore #1, State Plan #1 VO
Jim Rofe Fed Com #113H, Wellbore #1, BLM Plan #1 VO	Jim Rofe Fed Com #243H, Wellbore #1, BLM Plan #1 VO	Art Smith State Com #122H, Wellbore #1, State Plan #1 VO
Jim Rofe Fed Com #112H, Wellbore #1, BLM Plan #1 VO	Jim Rofe Fed Com #122H, Wellbore #1, BLM Plan #1 VO	Art Smith State Com #114H, Wellbore #1, State Plan #1 VO
Jim Rofe Fed Com #134H, Wellbore #1, BLM Plan #1 VO	Jim Rofe Fed Com #131H, Wellbore #1, BLM Plan #1 VO	Art Smith State Com #128H, Wellbore #1, State Plan #1 VO
Jim Rofe Fed Com #241H, Wellbore #1, BLM Plan #1 VO	Jim Rofe Fed Com #241H, Wellbore #1, BLM Plan #1 VO	Art Smith State Com #130H, Wellbore #1, State Plan #1 VO
Jim Rofe Fed Com #123H, Wellbore #1, BLM Plan #1 VO	Art Smith State Com #127H, Wellbore #1, State Plan #1 VO	Art Smith State Com #111H, Wellbore #1, State Plan #1 VO
Jim Rofe Fed Com #132H, Wellbore #1, BLM Plan #1 VO	Art Smith State Com #112H, Wellbore #1, State Plan #1 VO	Art Smith State Com #242H, Wellbore #1, State Plan #1 VO
Jim Rofe Fed Com #111H, Wellbore #1, BLM Plan #1 VO	Art Smith State Com #121H, Wellbore #1, State Plan #1 VO	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Matador Production Company

Ranger/Arrowhead

Art Smith

Art Smith State Com #241H

Wellbore #1

Plan: State Plan #1

Standard Planning Report

17 July, 2025

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Art Smith State Com #241H
Company:	Matador Production Company	TVD Reference:	KB @ 4039.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 4039.5usft
Site:	Art Smith	North Reference:	Grid
Well:	Art Smith State Com #241H	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		

Site	Art Smith					
Site Position:		Northing:	623,071.16 usft	Latitude:	32° 42' 37.747 N	
From:	Lat/Long	Easting:	740,341.62 usft	Longitude:	103° 33' 7.018 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.42 °

Well	Art Smith State Com #241H					
Well Position	+N/-S	21.4 usft	Northing:	623,092.55 usft	Latitude:	32° 42' 37.963 N
	+E/-W	-70.5 usft	Easting:	740,271.14 usft	Longitude:	103° 33' 7.841 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	4,011.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/31/2024	6.15	60.40	47,443.56987866

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	179.56

Plan Survey Tool Program		Date 7/17/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,376.3	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	
1,664.0	3.28	294.46	1,664.0	1.9	-4.3	2.00	2.00	0.00	294.46	
11,284.3	3.28	294.46	11,268.4	229.9	-505.4	0.00	0.00	0.00	0.00	
11,503.0	0.00	0.00	11,487.0	232.5	-511.1	1.50	-1.50	0.00	180.00	KOP - Art Smith State
12,403.0	90.00	185.90	12,060.0	-337.5	-570.0	10.00	10.00	0.00	185.90	
12,720.0	90.00	179.56	12,060.0	-654.0	-585.1	2.00	0.00	-2.00	-90.00	
22,376.3	90.00	179.56	12,060.0	-10,310.0	-510.8	0.00	0.00	0.00	0.00	BHL - Art Smith State

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Art Smith State Com #241H
Company:	Matador Production Company	TVD Reference:	KB @ 4039.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 4039.5usft
Site:	Art Smith	North Reference:	Grid
Well:	Art Smith State Com #241H	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 2.00									
1,600.0	2.00	294.46	1,600.0	0.7	-1.6	-0.7	2.00	2.00	0.00
1,664.0	3.28	294.46	1,664.0	1.9	-4.3	-2.0	2.00	2.00	0.00
Start 9620.2 hold at 1664.0 MD									
1,700.0	3.28	294.46	1,699.9	2.8	-6.1	-2.8	0.00	0.00	0.00
1,800.0	3.28	294.46	1,799.7	5.2	-11.4	-5.3	0.00	0.00	0.00
1,822.1	3.28	294.46	1,821.7	5.7	-12.5	-5.8	0.00	0.00	0.00
Depth (Rustler)									
1,900.0	3.28	294.46	1,899.5	7.5	-16.6	-7.7	0.00	0.00	0.00
2,000.0	3.28	294.46	1,999.4	9.9	-21.8	-10.1	0.00	0.00	0.00
2,081.3	3.28	294.46	2,080.5	11.8	-26.0	-12.0	0.00	0.00	0.00
Depth (Salado)									
2,100.0	3.28	294.46	2,099.2	12.3	-27.0	-12.5	0.00	0.00	0.00
2,200.0	3.28	294.46	2,199.0	14.6	-32.2	-14.9	0.00	0.00	0.00
2,300.0	3.28	294.46	2,298.9	17.0	-37.4	-17.3	0.00	0.00	0.00
2,400.0	3.28	294.46	2,398.7	19.4	-42.6	-19.7	0.00	0.00	0.00
2,500.0	3.28	294.46	2,498.5	21.7	-47.8	-22.1	0.00	0.00	0.00
2,600.0	3.28	294.46	2,598.4	24.1	-53.0	-24.5	0.00	0.00	0.00
2,700.0	3.28	294.46	2,698.2	26.5	-58.2	-26.9	0.00	0.00	0.00
2,800.0	3.28	294.46	2,798.0	28.9	-63.5	-29.3	0.00	0.00	0.00
2,900.0	3.28	294.46	2,897.9	31.2	-68.7	-31.8	0.00	0.00	0.00
3,000.0	3.28	294.46	2,997.7	33.6	-73.9	-34.2	0.00	0.00	0.00
3,100.0	3.28	294.46	3,097.6	36.0	-79.1	-36.6	0.00	0.00	0.00
3,200.0	3.28	294.46	3,197.4	38.3	-84.3	-39.0	0.00	0.00	0.00
3,239.5	3.28	294.46	3,236.8	39.3	-86.3	-39.9	0.00	0.00	0.00
Base Salts/Top Artesia Group									
3,300.0	3.28	294.46	3,297.2	40.7	-89.5	-41.4	0.00	0.00	0.00
3,400.0	3.28	294.46	3,397.1	43.1	-94.7	-43.8	0.00	0.00	0.00
3,500.0	3.28	294.46	3,496.9	45.4	-99.9	-46.2	0.00	0.00	0.00
3,600.0	3.28	294.46	3,596.7	47.8	-105.1	-48.6	0.00	0.00	0.00
3,700.0	3.28	294.46	3,696.6	50.2	-110.3	-51.0	0.00	0.00	0.00
3,800.0	3.28	294.46	3,796.4	52.5	-115.5	-53.4	0.00	0.00	0.00
3,900.0	3.28	294.46	3,896.2	54.9	-120.8	-55.8	0.00	0.00	0.00
4,000.0	3.28	294.46	3,996.1	57.3	-126.0	-58.3	0.00	0.00	0.00
4,100.0	3.28	294.46	4,095.9	59.7	-131.2	-60.7	0.00	0.00	0.00
4,200.0	3.28	294.46	4,195.8	62.0	-136.4	-63.1	0.00	0.00	0.00
4,300.0	3.28	294.46	4,295.6	64.4	-141.6	-65.5	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Art Smith State Com #241H
Company:	Matador Production Company	TVD Reference:	KB @ 4039.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 4039.5usft
Site:	Art Smith	North Reference:	Grid
Well:	Art Smith State Com #241H	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)
4,400.0	3.28	294.46	4,395.4	66.8	-146.8	-67.9	0.00	0.00	0.00
4,500.0	3.28	294.46	4,495.3	69.1	-152.0	-70.3	0.00	0.00	0.00
4,588.8	3.28	294.46	4,583.9	71.2	-156.6	-72.4	0.00	0.00	0.00
Depth (G16.1: Shattuck-SS (CS12-TSS))									
4,600.0	3.28	294.46	4,595.1	71.5	-157.2	-72.7	0.00	0.00	0.00
4,700.0	3.28	294.46	4,694.9	73.9	-162.4	-75.1	0.00	0.00	0.00
4,800.0	3.28	294.46	4,794.8	76.2	-167.6	-77.5	0.00	0.00	0.00
4,877.9	3.28	294.46	4,872.6	78.1	-171.7	-79.4	0.00	0.00	0.00
Depth (G14.1: Penrose-SS (CS11-HSS))									
4,900.0	3.28	294.46	4,894.6	78.6	-172.9	-79.9	0.00	0.00	0.00
5,000.0	3.28	294.46	4,994.4	81.0	-178.1	-82.3	0.00	0.00	0.00
5,100.0	3.28	294.46	5,094.3	83.3	-183.3	-84.8	0.00	0.00	0.00
5,200.0	3.28	294.46	5,194.1	85.7	-188.5	-87.2	0.00	0.00	0.00
5,300.0	3.28	294.46	5,294.0	88.1	-193.7	-89.6	0.00	0.00	0.00
5,400.0	3.28	294.46	5,393.8	90.5	-198.9	-92.0	0.00	0.00	0.00
5,500.0	3.28	294.46	5,493.6	92.8	-204.1	-94.4	0.00	0.00	0.00
5,600.0	3.28	294.46	5,593.5	95.2	-209.3	-96.8	0.00	0.00	0.00
5,700.0	3.28	294.46	5,693.3	97.6	-214.5	-99.2	0.00	0.00	0.00
5,800.0	3.28	294.46	5,793.1	99.9	-219.7	-101.6	0.00	0.00	0.00
5,900.0	3.28	294.46	5,893.0	102.3	-224.9	-104.0	0.00	0.00	0.00
6,000.0	3.28	294.46	5,992.8	104.7	-230.2	-106.4	0.00	0.00	0.00
6,100.0	3.28	294.46	6,092.6	107.0	-235.4	-108.8	0.00	0.00	0.00
6,200.0	3.28	294.46	6,192.5	109.4	-240.6	-111.3	0.00	0.00	0.00
6,300.0	3.28	294.46	6,292.3	111.8	-245.8	-113.7	0.00	0.00	0.00
6,350.7	3.28	294.46	6,342.9	113.0	-248.4	-114.9	0.00	0.00	0.00
Depth (G13: Cherry Cyn.)									
6,400.0	3.28	294.46	6,392.1	114.1	-251.0	-116.1	0.00	0.00	0.00
6,500.0	3.28	294.46	6,492.0	116.5	-256.2	-118.5	0.00	0.00	0.00
6,600.0	3.28	294.46	6,591.8	118.9	-261.4	-120.9	0.00	0.00	0.00
6,700.0	3.28	294.46	6,691.7	121.3	-266.6	-123.3	0.00	0.00	0.00
6,800.0	3.28	294.46	6,791.5	123.6	-271.8	-125.7	0.00	0.00	0.00
6,900.0	3.28	294.46	6,891.3	126.0	-277.0	-128.1	0.00	0.00	0.00
7,000.0	3.28	294.46	6,991.2	128.4	-282.3	-130.5	0.00	0.00	0.00
7,100.0	3.28	294.46	7,091.0	130.7	-287.5	-132.9	0.00	0.00	0.00
7,200.0	3.28	294.46	7,190.8	133.1	-292.7	-135.3	0.00	0.00	0.00
7,300.0	3.28	294.46	7,290.7	135.5	-297.9	-137.8	0.00	0.00	0.00
7,400.0	3.28	294.46	7,390.5	137.8	-303.1	-140.2	0.00	0.00	0.00
7,500.0	3.28	294.46	7,490.3	140.2	-308.3	-142.6	0.00	0.00	0.00
7,600.0	3.28	294.46	7,590.2	142.6	-313.5	-145.0	0.00	0.00	0.00
7,700.0	3.28	294.46	7,690.0	144.9	-318.7	-147.4	0.00	0.00	0.00
7,800.0	3.28	294.46	7,789.9	147.3	-323.9	-149.8	0.00	0.00	0.00
7,900.0	3.28	294.46	7,889.7	149.7	-329.1	-152.2	0.00	0.00	0.00
7,923.8	3.28	294.46	7,913.4	150.2	-330.4	-152.8	0.00	0.00	0.00
Depth (G4: BSGI (CS9))									
8,000.0	3.28	294.46	7,989.5	152.1	-334.3	-154.6	0.00	0.00	0.00
8,100.0	3.28	294.46	8,089.4	154.4	-339.6	-157.0	0.00	0.00	0.00
8,200.0	3.28	294.46	8,189.2	156.8	-344.8	-159.4	0.00	0.00	0.00
8,300.0	3.28	294.46	8,289.0	159.2	-350.0	-161.8	0.00	0.00	0.00
8,400.0	3.28	294.46	8,388.9	161.5	-355.2	-164.3	0.00	0.00	0.00
8,500.0	3.28	294.46	8,488.7	163.9	-360.4	-166.7	0.00	0.00	0.00
8,600.0	3.28	294.46	8,588.5	166.3	-365.6	-169.1	0.00	0.00	0.00
8,700.0	3.28	294.46	8,688.4	168.6	-370.8	-171.5	0.00	0.00	0.00
8,800.0	3.28	294.46	8,788.2	171.0	-376.0	-173.9	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Art Smith State Com #241H
Company:	Matador Production Company	TVD Reference:	KB @ 4039.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 4039.5usft
Site:	Art Smith	North Reference:	Grid
Well:	Art Smith State Com #241H	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)
8,900.0	3.28	294.46	8,888.1	173.4	-381.2	-176.3	0.00	0.00	0.00
8,974.8	3.28	294.46	8,962.7	175.2	-385.1	-178.1	0.00	0.00	0.00
Depth (L5.3: FBSC)									
9,000.0	3.28	294.46	8,987.9	175.7	-386.4	-178.7	0.00	0.00	0.00
9,100.0	3.28	294.46	9,087.7	178.1	-391.7	-181.1	0.00	0.00	0.00
9,140.2	3.28	294.46	9,127.8	179.1	-393.7	-182.1	0.00	0.00	0.00
Depth (L5.1: FBSC)									
9,200.0	3.28	294.46	9,187.6	180.5	-396.9	-183.5	0.00	0.00	0.00
9,299.6	3.28	294.46	9,287.0	182.8	-402.1	-185.9	0.00	0.00	0.00
Depth (L4.3: SBSC)									
9,300.0	3.28	294.46	9,287.4	182.9	-402.1	-185.9	0.00	0.00	0.00
9,400.0	3.28	294.46	9,387.2	185.2	-407.3	-188.3	0.00	0.00	0.00
9,414.8	3.28	294.46	9,402.0	185.6	-408.1	-188.7	0.00	0.00	0.00
Depth (L4.1: SBSC)									
9,500.0	3.28	294.46	9,487.1	187.6	-412.5	-190.8	0.00	0.00	0.00
9,600.0	3.28	294.46	9,586.9	190.0	-417.7	-193.2	0.00	0.00	0.00
9,700.0	3.28	294.46	9,686.7	192.3	-422.9	-195.6	0.00	0.00	0.00
9,800.0	3.28	294.46	9,786.6	194.7	-428.1	-198.0	0.00	0.00	0.00
9,900.0	3.28	294.46	9,886.4	197.1	-433.3	-200.4	0.00	0.00	0.00
10,000.0	3.28	294.46	9,986.2	199.4	-438.5	-202.8	0.00	0.00	0.00
10,100.0	3.28	294.46	10,086.1	201.8	-443.7	-205.2	0.00	0.00	0.00
10,200.0	3.28	294.46	10,185.9	204.2	-449.0	-207.6	0.00	0.00	0.00
10,235.1	3.28	294.46	10,221.0	205.0	-450.8	-208.5	0.00	0.00	0.00
Depth (L3.3: TBSC)									
10,300.0	3.28	294.46	10,285.8	206.5	-454.2	-210.0	0.00	0.00	0.00
10,400.0	3.28	294.46	10,385.6	208.9	-459.4	-212.4	0.00	0.00	0.00
10,473.5	3.28	294.46	10,459.0	210.7	-463.2	-214.2	0.00	0.00	0.00
Depth (L3.1: TBSC)									
10,500.0	3.28	294.46	10,485.4	211.3	-464.6	-214.8	0.00	0.00	0.00
10,600.0	3.28	294.46	10,585.3	213.7	-469.8	-217.3	0.00	0.00	0.00
10,653.8	3.28	294.46	10,639.0	214.9	-472.6	-218.6	0.00	0.00	0.00
Depth (L2: WFMP A)									
10,700.0	3.28	294.46	10,685.1	216.0	-475.0	-219.7	0.00	0.00	0.00
10,800.0	3.28	294.46	10,784.9	218.4	-480.2	-222.1	0.00	0.00	0.00
10,900.0	3.28	294.46	10,884.8	220.8	-485.4	-224.5	0.00	0.00	0.00
10,908.2	3.28	294.46	10,893.0	221.0	-485.9	-224.7	0.00	0.00	0.00
Depth (WFMP B)									
11,000.0	3.28	294.46	10,984.6	223.1	-490.6	-226.9	0.00	0.00	0.00
11,100.0	3.28	294.46	11,084.4	225.5	-495.8	-229.3	0.00	0.00	0.00
11,110.0	3.28	294.46	11,094.4	225.7	-496.4	-229.5	0.00	0.00	0.00
Depth (WFMP B.4)									
11,200.0	3.28	294.46	11,184.3	227.9	-501.1	-231.7	0.00	0.00	0.00
11,284.3	3.28	294.46	11,268.4	229.9	-505.4	-233.7	0.00	0.00	0.00
Start Drop -1.50									
11,300.0	3.04	294.46	11,284.1	230.2	-506.2	-234.1	1.50	-1.50	0.00
11,400.0	1.54	294.46	11,384.0	231.9	-509.9	-235.8	1.50	-1.50	0.00
11,500.0	0.04	294.46	11,484.0	232.5	-511.1	-236.4	1.50	-1.50	0.00
11,503.0	0.00	0.00	11,487.0	232.5	-511.1	-236.4	1.50	-1.50	2,202.19
Start Build 10.00 - KOP - Art Smith State Com #241H									
11,600.0	9.70	185.90	11,583.6	224.3	-512.0	-228.2	10.00	10.00	-179.44
11,663.4	16.04	185.90	11,645.3	210.3	-513.4	-214.2	10.00	10.00	0.00
Depth (WFMP C)									

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Art Smith State Com #241H
Company:	Matador Production Company	TVD Reference:	KB @ 4039.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 4039.5usft
Site:	Art Smith	North Reference:	Grid
Well:	Art Smith State Com #241H	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)
11,700.0	19.70	185.90	11,680.2	199.1	-514.6	-203.0	10.00	10.00	0.00
11,800.0	29.70	185.90	11,770.9	157.6	-518.9	-161.6	10.00	10.00	0.00
11,900.0	39.70	185.90	11,853.0	101.0	-524.7	-105.0	10.00	10.00	0.00
12,000.0	49.70	185.90	11,924.0	31.1	-531.9	-35.2	10.00	10.00	0.00
12,100.0	59.70	185.90	11,981.7	-49.9	-540.3	45.8	10.00	10.00	0.00
12,125.1	62.21	185.90	11,993.9	-71.8	-542.6	67.6	10.00	10.00	0.00
Depth (WFMP D)									
12,200.0	69.70	185.90	12,024.4	-139.8	-549.6	135.5	10.00	10.00	0.00
12,300.0	79.70	185.90	12,050.7	-235.6	-559.5	231.3	10.00	10.00	0.00
12,400.0	89.70	185.90	12,059.9	-334.5	-569.7	330.1	10.00	10.00	0.00
12,403.0	90.00	185.90	12,060.0	-337.5	-570.0	333.1	10.00	10.00	0.00
Start DLS 2.00 TFO -90.00									
12,500.0	90.00	183.96	12,060.0	-434.1	-578.4	429.7	2.00	0.00	-2.00
12,600.0	90.00	181.96	12,060.0	-534.0	-583.5	529.5	2.00	0.00	-2.00
12,700.0	90.00	179.96	12,060.0	-634.0	-585.2	629.5	2.00	0.00	-2.00
12,720.0	90.00	179.56	12,060.0	-654.0	-585.1	649.5	2.00	0.00	-2.00
Start 9656.3 hold at 12720.0 MD									
12,800.0	90.00	179.56	12,060.0	-734.0	-584.5	729.5	0.00	0.00	0.00
12,900.0	90.00	179.56	12,060.0	-834.0	-583.7	829.5	0.00	0.00	0.00
13,000.0	90.00	179.56	12,060.0	-934.0	-583.0	929.5	0.00	0.00	0.00
13,100.0	90.00	179.56	12,060.0	-1,034.0	-582.2	1,029.5	0.00	0.00	0.00
13,200.0	90.00	179.56	12,060.0	-1,134.0	-581.4	1,129.5	0.00	0.00	0.00
13,300.0	90.00	179.56	12,060.0	-1,234.0	-580.7	1,229.5	0.00	0.00	0.00
13,400.0	90.00	179.56	12,060.0	-1,333.9	-579.9	1,329.5	0.00	0.00	0.00
13,500.0	90.00	179.56	12,060.0	-1,433.9	-579.1	1,429.5	0.00	0.00	0.00
13,600.0	90.00	179.56	12,060.0	-1,533.9	-578.4	1,529.5	0.00	0.00	0.00
13,700.0	90.00	179.56	12,060.0	-1,633.9	-577.6	1,629.5	0.00	0.00	0.00
13,800.0	90.00	179.56	12,060.0	-1,733.9	-576.8	1,729.5	0.00	0.00	0.00
13,900.0	90.00	179.56	12,060.0	-1,833.9	-576.0	1,829.5	0.00	0.00	0.00
14,000.0	90.00	179.56	12,060.0	-1,933.9	-575.3	1,929.5	0.00	0.00	0.00
14,100.0	90.00	179.56	12,060.0	-2,033.9	-574.5	2,029.5	0.00	0.00	0.00
14,200.0	90.00	179.56	12,060.0	-2,133.9	-573.7	2,129.5	0.00	0.00	0.00
14,300.0	90.00	179.56	12,060.0	-2,233.9	-573.0	2,229.5	0.00	0.00	0.00
14,400.0	90.00	179.56	12,060.0	-2,333.9	-572.2	2,329.5	0.00	0.00	0.00
14,500.0	90.00	179.56	12,060.0	-2,433.9	-571.4	2,429.5	0.00	0.00	0.00
14,600.0	90.00	179.56	12,060.0	-2,533.9	-570.7	2,529.5	0.00	0.00	0.00
14,700.0	90.00	179.56	12,060.0	-2,633.9	-569.9	2,629.5	0.00	0.00	0.00
14,800.0	90.00	179.56	12,060.0	-2,733.9	-569.1	2,729.5	0.00	0.00	0.00
14,900.0	90.00	179.56	12,060.0	-2,833.9	-568.3	2,829.5	0.00	0.00	0.00
15,000.0	90.00	179.56	12,060.0	-2,933.9	-567.6	2,929.5	0.00	0.00	0.00
15,100.0	90.00	179.56	12,060.0	-3,033.9	-566.8	3,029.5	0.00	0.00	0.00
15,200.0	90.00	179.56	12,060.0	-3,133.9	-566.0	3,129.5	0.00	0.00	0.00
15,300.0	90.00	179.56	12,060.0	-3,233.9	-565.3	3,229.5	0.00	0.00	0.00
15,400.0	90.00	179.56	12,060.0	-3,333.9	-564.5	3,329.5	0.00	0.00	0.00
15,500.0	90.00	179.56	12,060.0	-3,433.9	-563.7	3,429.5	0.00	0.00	0.00
15,600.0	90.00	179.56	12,060.0	-3,533.9	-563.0	3,529.5	0.00	0.00	0.00
15,700.0	90.00	179.56	12,060.0	-3,633.9	-562.2	3,629.5	0.00	0.00	0.00
15,800.0	90.00	179.56	12,060.0	-3,733.9	-561.4	3,729.5	0.00	0.00	0.00
15,900.0	90.00	179.56	12,060.0	-3,833.9	-560.6	3,829.5	0.00	0.00	0.00
16,000.0	90.00	179.56	12,060.0	-3,933.9	-559.9	3,929.5	0.00	0.00	0.00
16,100.0	90.00	179.56	12,060.0	-4,033.9	-559.1	4,029.5	0.00	0.00	0.00
16,200.0	90.00	179.56	12,060.0	-4,133.9	-558.3	4,129.5	0.00	0.00	0.00
16,300.0	90.00	179.56	12,060.0	-4,233.9	-557.6	4,229.5	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Art Smith State Com #241H
Company:	Matador Production Company	TVD Reference:	KB @ 4039.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 4039.5usft
Site:	Art Smith	North Reference:	Grid
Well:	Art Smith State Com #241H	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)
16,400.0	90.00	179.56	12,060.0	-4,333.9	-556.8	4,329.5	0.00	0.00	0.00
16,500.0	90.00	179.56	12,060.0	-4,433.9	-556.0	4,429.5	0.00	0.00	0.00
16,600.0	90.00	179.56	12,060.0	-4,533.9	-555.3	4,529.5	0.00	0.00	0.00
16,700.0	90.00	179.56	12,060.0	-4,633.9	-554.5	4,629.5	0.00	0.00	0.00
16,800.0	90.00	179.56	12,060.0	-4,733.8	-553.7	4,729.5	0.00	0.00	0.00
16,900.0	90.00	179.56	12,060.0	-4,833.8	-552.9	4,829.5	0.00	0.00	0.00
17,000.0	90.00	179.56	12,060.0	-4,933.8	-552.2	4,929.5	0.00	0.00	0.00
17,100.0	90.00	179.56	12,060.0	-5,033.8	-551.4	5,029.5	0.00	0.00	0.00
17,200.0	90.00	179.56	12,060.0	-5,133.8	-550.6	5,129.5	0.00	0.00	0.00
17,300.0	90.00	179.56	12,060.0	-5,233.8	-549.9	5,229.5	0.00	0.00	0.00
17,400.0	90.00	179.56	12,060.0	-5,333.8	-549.1	5,329.5	0.00	0.00	0.00
17,500.0	90.00	179.56	12,060.0	-5,433.8	-548.3	5,429.5	0.00	0.00	0.00
17,600.0	90.00	179.56	12,060.0	-5,533.8	-547.5	5,529.5	0.00	0.00	0.00
17,700.0	90.00	179.56	12,060.0	-5,633.8	-546.8	5,629.5	0.00	0.00	0.00
17,800.0	90.00	179.56	12,060.0	-5,733.8	-546.0	5,729.5	0.00	0.00	0.00
17,900.0	90.00	179.56	12,060.0	-5,833.8	-545.2	5,829.5	0.00	0.00	0.00
18,000.0	90.00	179.56	12,060.0	-5,933.8	-544.5	5,929.5	0.00	0.00	0.00
18,100.0	90.00	179.56	12,060.0	-6,033.8	-543.7	6,029.5	0.00	0.00	0.00
18,200.0	90.00	179.56	12,060.0	-6,133.8	-542.9	6,129.5	0.00	0.00	0.00
18,300.0	90.00	179.56	12,060.0	-6,233.8	-542.2	6,229.5	0.00	0.00	0.00
18,400.0	90.00	179.56	12,060.0	-6,333.8	-541.4	6,329.5	0.00	0.00	0.00
18,500.0	90.00	179.56	12,060.0	-6,433.8	-540.6	6,429.5	0.00	0.00	0.00
18,600.0	90.00	179.56	12,060.0	-6,533.8	-539.8	6,529.5	0.00	0.00	0.00
18,700.0	90.00	179.56	12,060.0	-6,633.8	-539.1	6,629.5	0.00	0.00	0.00
18,800.0	90.00	179.56	12,060.0	-6,733.8	-538.3	6,729.5	0.00	0.00	0.00
18,900.0	90.00	179.56	12,060.0	-6,833.8	-537.5	6,829.5	0.00	0.00	0.00
19,000.0	90.00	179.56	12,060.0	-6,933.8	-536.8	6,929.5	0.00	0.00	0.00
19,100.0	90.00	179.56	12,060.0	-7,033.8	-536.0	7,029.5	0.00	0.00	0.00
19,200.0	90.00	179.56	12,060.0	-7,133.8	-535.2	7,129.5	0.00	0.00	0.00
19,300.0	90.00	179.56	12,060.0	-7,233.8	-534.5	7,229.5	0.00	0.00	0.00
19,400.0	90.00	179.56	12,060.0	-7,333.8	-533.7	7,329.5	0.00	0.00	0.00
19,500.0	90.00	179.56	12,060.0	-7,433.8	-532.9	7,429.5	0.00	0.00	0.00
19,600.0	90.00	179.56	12,060.0	-7,533.8	-532.1	7,529.5	0.00	0.00	0.00
19,700.0	90.00	179.56	12,060.0	-7,633.8	-531.4	7,629.5	0.00	0.00	0.00
19,800.0	90.00	179.56	12,060.0	-7,733.8	-530.6	7,729.5	0.00	0.00	0.00
19,900.0	90.00	179.56	12,060.0	-7,833.8	-529.8	7,829.5	0.00	0.00	0.00
20,000.0	90.00	179.56	12,060.0	-7,933.8	-529.1	7,929.5	0.00	0.00	0.00
20,100.0	90.00	179.56	12,060.0	-8,033.7	-528.3	8,029.5	0.00	0.00	0.00
20,200.0	90.00	179.56	12,060.0	-8,133.7	-527.5	8,129.5	0.00	0.00	0.00
20,300.0	90.00	179.56	12,060.0	-8,233.7	-526.8	8,229.5	0.00	0.00	0.00
20,400.0	90.00	179.56	12,060.0	-8,333.7	-526.0	8,329.5	0.00	0.00	0.00
20,500.0	90.00	179.56	12,060.0	-8,433.7	-525.2	8,429.5	0.00	0.00	0.00
20,600.0	90.00	179.56	12,060.0	-8,533.7	-524.4	8,529.5	0.00	0.00	0.00
20,700.0	90.00	179.56	12,060.0	-8,633.7	-523.7	8,629.5	0.00	0.00	0.00
20,800.0	90.00	179.56	12,060.0	-8,733.7	-522.9	8,729.5	0.00	0.00	0.00
20,900.0	90.00	179.56	12,060.0	-8,833.7	-522.1	8,829.5	0.00	0.00	0.00
21,000.0	90.00	179.56	12,060.0	-8,933.7	-521.4	8,929.5	0.00	0.00	0.00
21,100.0	90.00	179.56	12,060.0	-9,033.7	-520.6	9,029.5	0.00	0.00	0.00
21,200.0	90.00	179.56	12,060.0	-9,133.7	-519.8	9,129.5	0.00	0.00	0.00
21,300.0	90.00	179.56	12,060.0	-9,233.7	-519.1	9,229.5	0.00	0.00	0.00
21,400.0	90.00	179.56	12,060.0	-9,333.7	-518.3	9,329.5	0.00	0.00	0.00
21,500.0	90.00	179.56	12,060.0	-9,433.7	-517.5	9,429.5	0.00	0.00	0.00
21,600.0	90.00	179.56	12,060.0	-9,533.7	-516.7	9,529.5	0.00	0.00	0.00
21,700.0	90.00	179.56	12,060.0	-9,633.7	-516.0	9,629.5	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Art Smith State Com #241H
Company:	Matador Production Company	TVD Reference:	KB @ 4039.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 4039.5usft
Site:	Art Smith	North Reference:	Grid
Well:	Art Smith State Com #241H	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)
21,800.0	90.00	179.56	12,060.0	-9,733.7	-515.2	9,729.5	0.00	0.00	0.00
21,900.0	90.00	179.56	12,060.0	-9,833.7	-514.4	9,829.5	0.00	0.00	0.00
22,000.0	90.00	179.56	12,060.0	-9,933.7	-513.7	9,929.5	0.00	0.00	0.00
22,100.0	90.00	179.56	12,060.0	-10,033.7	-512.9	10,029.5	0.00	0.00	0.00
22,200.0	90.00	179.56	12,060.0	-10,133.7	-512.1	10,129.5	0.00	0.00	0.00
22,300.0	90.00	179.56	12,060.0	-10,233.7	-511.4	10,229.5	0.00	0.00	0.00
22,376.3	90.00	179.56	12,060.0	-10,310.0	-510.8	10,305.8	0.00	0.00	0.00
TD at 22376.3 - BHL - Art Smith State Com #241H									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP - Art Smith State Co - hit/miss target - Shape - Point	0.00	0.00	11,487.0	232.5	-511.1	623,325.00	739,760.00	32° 42' 40.301 N	103° 33' 13.803 W
BHL - Art Smith State Co - plan hits target center - Point	0.00	0.00	12,060.0	-10,310.0	-510.8	612,782.56	739,760.37	32° 40' 55.986 N	103° 33' 14.705 W

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,822.1	1,821.7	Depth (Rustler)		0.00	179.56
2,081.3	2,080.5	Depth (Salado)		0.00	179.56
3,239.5	3,236.8	Base Salts/Top Artesia Group		0.00	179.56
4,588.8	4,583.9	Depth (G16.1: Shattuck-SS (CS12-TSS)		0.00	179.56
4,877.9	4,872.6	Depth (G14.1: Penrose-SS (CS11-HSS)		0.00	179.56
6,350.7	6,342.9	Depth (G13: Cherry Cyn.)		0.00	179.56
7,923.8	7,913.4	Depth (G4: BSG (CS9))		0.00	179.56
8,974.8	8,962.7	Depth (L5.3: FBSC)		0.00	179.56
9,140.2	9,127.8	Depth (L5.1: FBSC)		0.00	179.56
9,299.6	9,287.0	Depth (L4.3: SBSC)		0.00	179.56
9,414.8	9,402.0	Depth (L4.1: SBSC)		0.00	179.56
10,235.1	10,221.0	Depth (L3.3: TBSC)		0.00	179.56
10,473.5	10,459.0	Depth (L3.1: TBSC)		0.00	179.56
10,653.8	10,639.0	Depth (L2: WFMP A)		0.00	179.56
10,908.2	10,893.0	Depth (WFMP B)		0.00	179.56
11,110.0	11,094.4	Depth (WFMP B.4)		0.00	179.56
11,663.4	11,645.3	Depth (WFMP C)		0.00	179.56
12,125.1	11,993.9	Depth (WFMP D)		0.00	179.56

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Art Smith State Com #241H
Company:	Matador Production Company	TVD Reference:	KB @ 4039.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 4039.5usft
Site:	Art Smith	North Reference:	Grid
Well:	Art Smith State Com #241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

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 2.00
1,664.0	1,664.0	1.9	-4.3	Start 9620.2 hold at 1664.0 MD
11,284.3	11,268.4	229.9	-505.4	Start Drop -1.50
11,503.0	11,487.0	232.5	-511.1	Start Build 10.00
12,403.0	12,060.0	-337.5	-570.0	Start DLS 2.00 TFO -90.00
12,720.0	12,060.0	-654.0	-585.1	Start 9656.3 hold at 12720.0 MD
22,376.3	12,060.0	-10,310.0	-510.8	TD at 22376.3

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

Submit Electronically
Via E-permitting

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:** 7/24/2025

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
Art Smith State Com 111H	TBD	D 34-18S-34E	259' FNL 1220' FWL	900	1300	1500
Art Smith State Com 112H	TBD	N 27-18S-34E	71' FSL 1977' FWL	900	1300	1500
Art Smith State Com 121H	TBD	D 34-18S-34E	289' FNL 1219' FWL	900	1300	1500
Art Smith State Com 122H	TBD	N 27-18S-34E	93' FSL 1956' FWL	900	1300	1500
Art Smith State Com 130H	TBD	N 27-18S-34E	50' FSL 1956' FWL	900	1300	1500
Art Smith State Com 241H	TBD	D 34-18S-34E	289' FNL 1249' FWL	800	1800	2100
Art Smith State Com 242H	TBD	N 27-18S-34E	72' FSL 1935' FWL	800	1800	2100

IV. Central Delivery Point Name: Art Smith 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
Art Smith State Com 111H	TBD	12/23/2025	01/15/2026	04/30/2026	06/25/2026	06/28/2026
Art Smith State Com 112H	TBD	12/23/2025	01/15/2026	04/30/2026	06/25/2026	06/28/2026
Art Smith State Com 121H	TBD	11/29/2025	12/23/2025	04/30/2026	06/25/2026	06/28/2026
Art Smith State Com 122H	TBD	11/29/2025	12/23/2025	04/30/2026	06/25/2026	06/28/2026
Art Smith State Com 130H	TBD	01/15/2026	02/12/2026	04/30/2026	06/25/2026	06/28/2026
Art Smith State Com 241H	TBD	01/15/2026	02/09/2026	04/30/2026	06/25/2026	06/28/2026
Art Smith State Com 242H	TBD	02/12/2026	03/09/2026	04/30/2026	06/25/2026	06/28/2026

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: Mark Gonzales
Title: Facilities Engineer II
E-mail Address: mark.gonzales@matadorresources.com
Date: 7/24/2025
Phone: (915) 240-3468
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Well Name: Art Smith State Com #241H										
STRING	FLUID TYPE	HOLE SZ	CSG SZ	CSG GRADE	CSG WT	DEPTH SET	TOP CSG	TTL SX CEMENT	EST TOC	ADDITIONAL INFO FOR CSG/CMT PROGRAM (Optional)
SURF	FRESH WTR	17.5	13.375	J-55	54.50	1900	0	1156	0	Option to drill surface hole with surface setting rig. Option to drill 20" Surface. Option to offline cement surface casing.
INT 1	Diesel Brine Emulsion	9.875	7.625	P-110	29.70	11353	0	1135	0	Option to run DV tool and Packer.
PROD	OBM	6.75	5.5	P-110	20.00	22376	0	755	11153	