

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 333378

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 30-025-51015
4. Property Code 320481	5. Property Name BILL ALEXANDER STATE COM	6. Well No. 124H

7. Surface Location

UL - Lot I	Section 4	Township 23S	Range 35E	Lot Idn I	Feet From 2406	N/S Line S	Feet From 1033	E/W Line E	County Lea
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8. Proposed Bottom Hole Location

UL - Lot A	Section 33	Township 22S	Range 35E	Lot Idn A	Feet From 60	N/S Line N	Feet From 330	E/W Line E	County Lea
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9. Pool Information

ROCK LAKE;BONE SPRING	52766
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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 3543
16. Multiple N	17. Proposed Depth 17867	18. Formation Bone Spring	19. Contractor	20. Spud Date 7/1/2023
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	1950	2100	0
Int1	12.25	9.625	40	5950	1500	0
Prod	8.75	5.5	23	17867	2800	5600

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 ☐ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

Signature:

OIL CONSERVATION DIVISION

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: 2/1/2023 Expiration Date: 2/1/2025
Date: 1/30/2023 Phone: 972-629-2160	Conditions of Approval Attached

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1220 S. St Francis Dr.
Santa Fe, NM 87505

Form APD Comments

Permit 333378

PERMIT COMMENTS

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240		API Number: 30-025-51015
		Well: BILL ALEXANDER STATE COM #124H

Created By	Comment	Comment Date
pkautz	HOLD OPERATOR IS OUT OF COMPLIANCE WITH INACTIVE WELLS.	2/1/2023

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Energy, Minerals and Natural Resources
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1220 S. St Francis Dr.
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Form APD Conditions

Permit 333378

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	API Number: 30-025-51015
	Well: BILL ALEXANDER STATE COM #124H

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



SURVEY PROGRAM

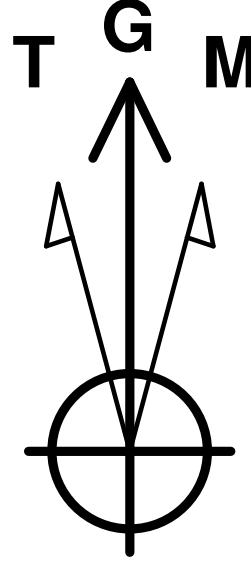
WELL DETAILS: Bill Alexander State Com #124H

Depth From	Depth To	Survey/Plan	Tool				GL @ 3543.0	KB @ 3571.5usft			Slot
0.0	17867.6	State Plan #1 (Wellbore #1)	MWD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
				0.0	0.0	486171.74	798520.55	32° 19' 58.440 N	103° 22' 0.692 W		

Company: Matador Production Company
Well: Bill Alexander State Com #124H
County: Lea county, NM
Wellbore: Wellbore #1
Plan: State Plan #1
Date: 1/9/2023

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

To convert a Magnetic Direction to a Grid Direction, Add 5.78°
To convert a Magnetic Direction to a True Direction, Add 6.30° East
To convert a True Direction to a Grid Direction, Subtract 0.52°



Azimuths to Grid North
True North: -0.52°
Magnetic North: 5.78°

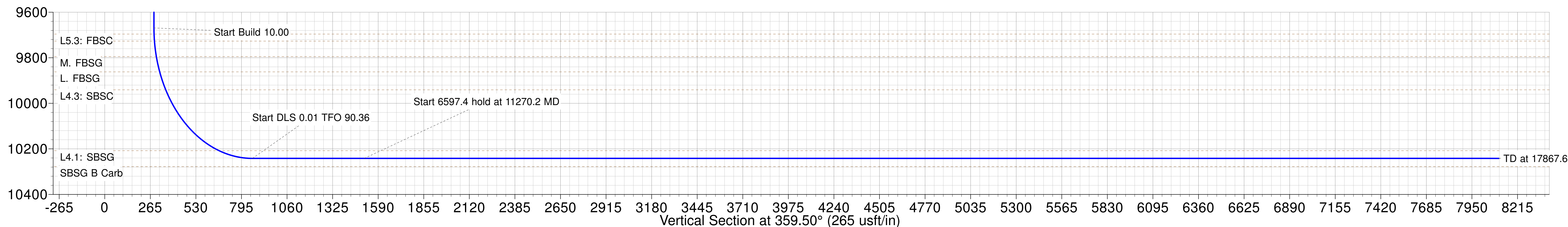
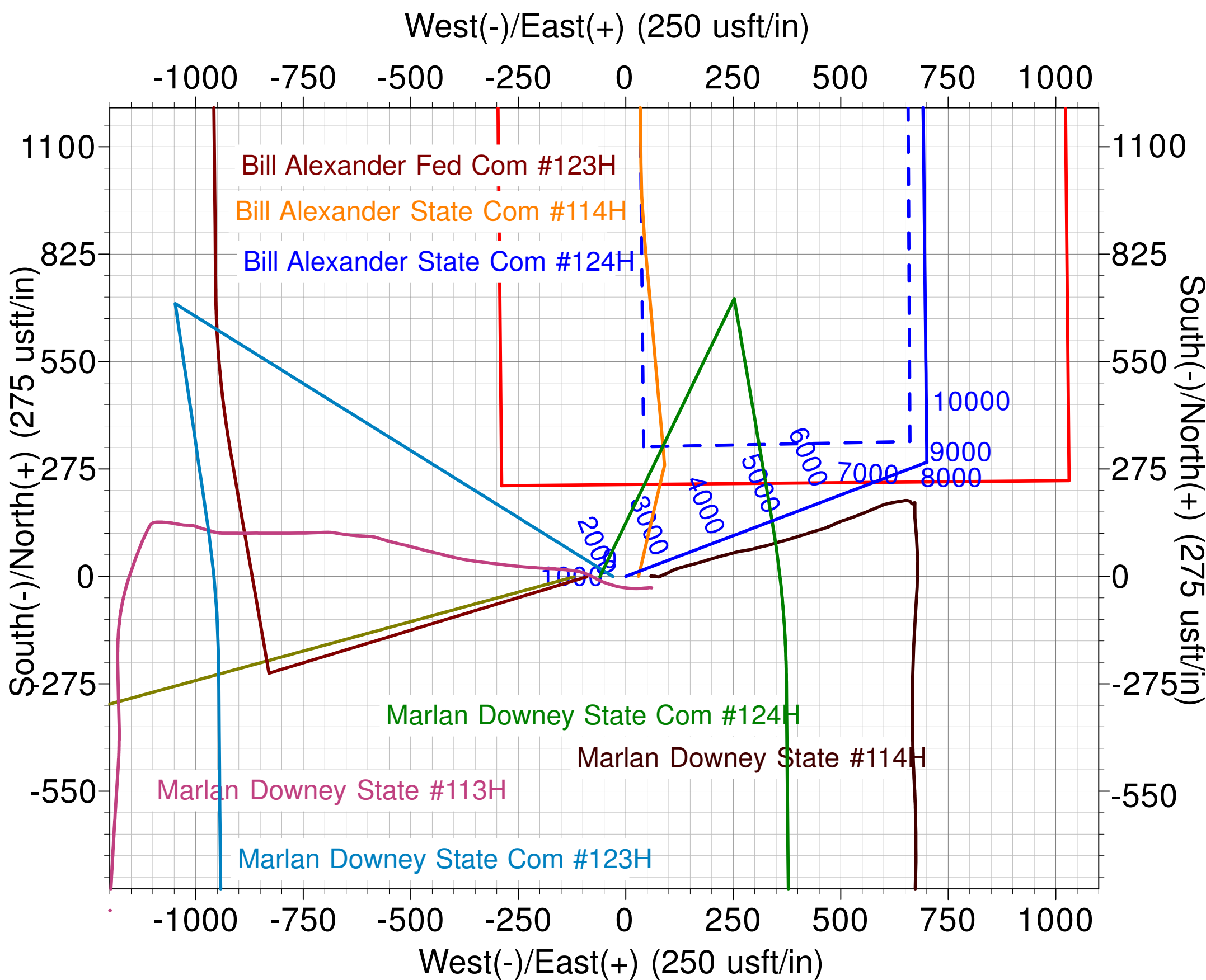
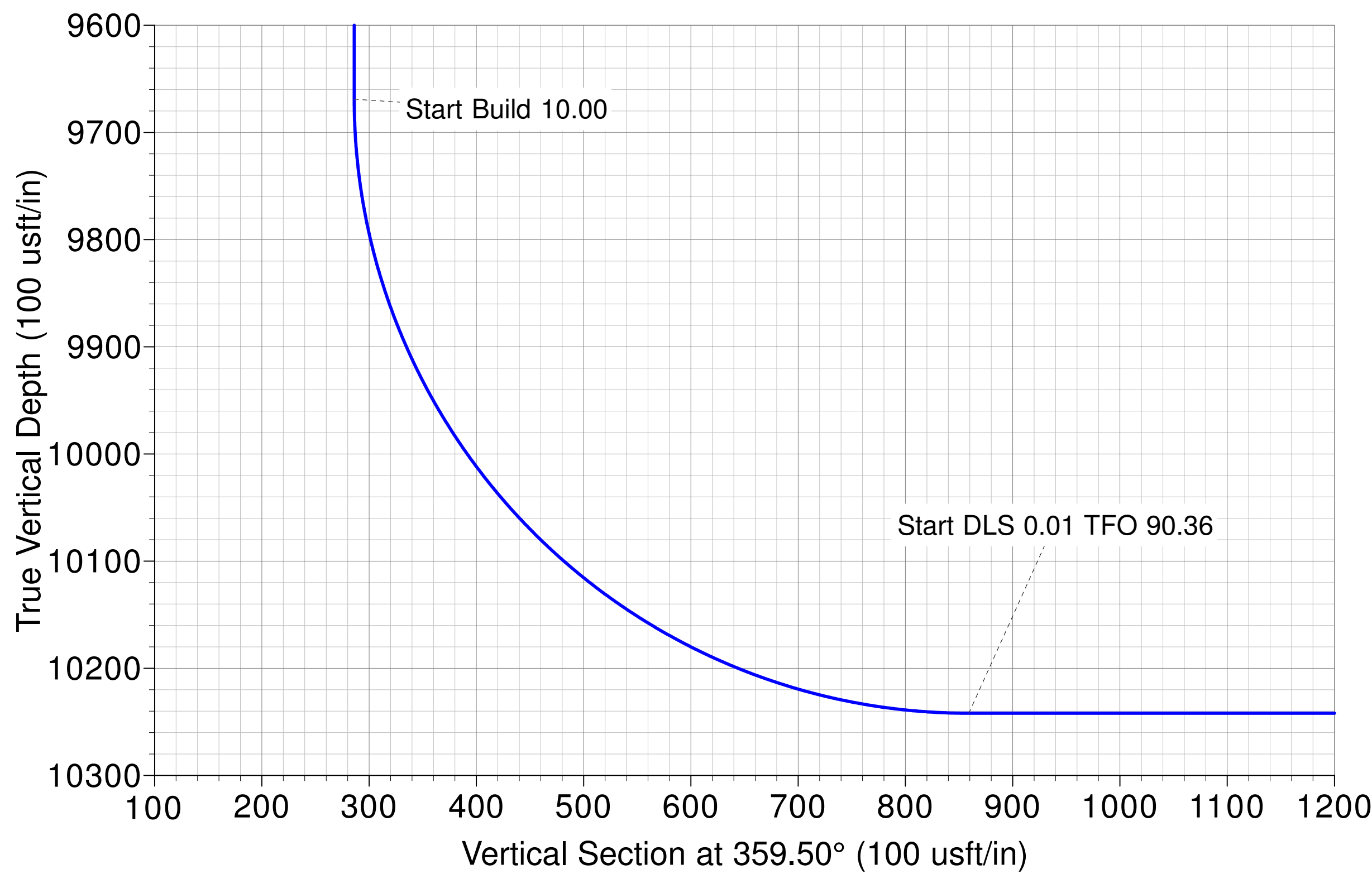
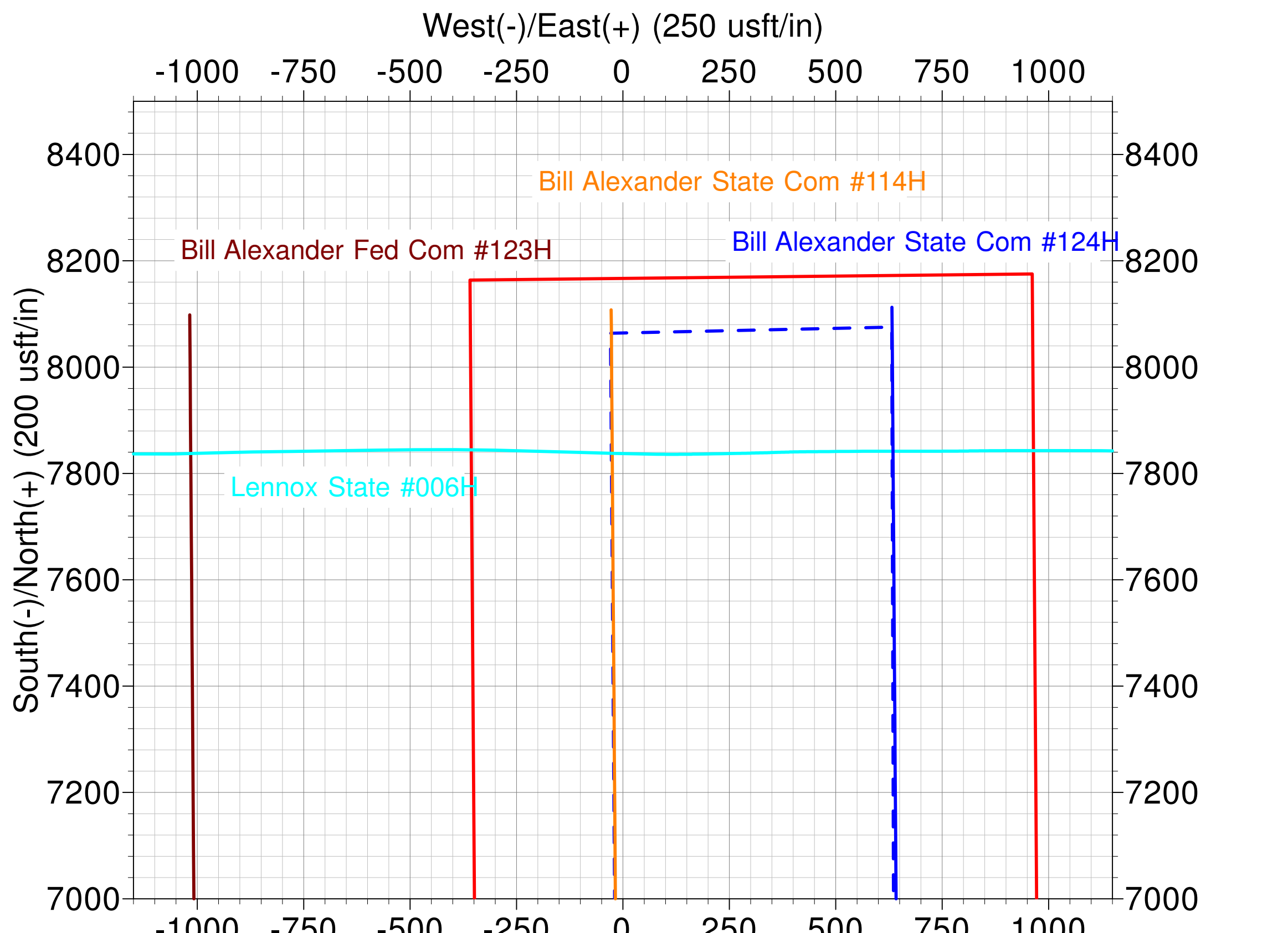
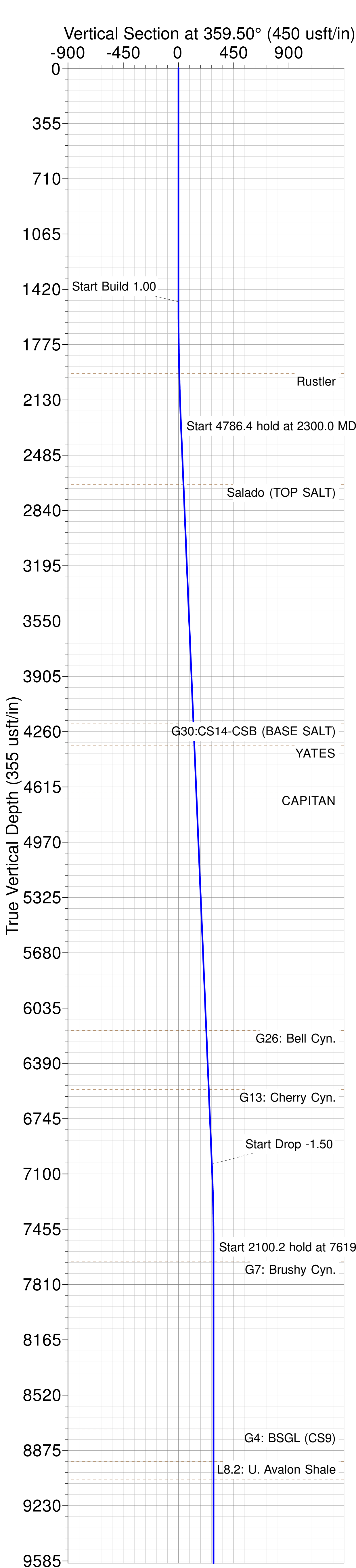
Magnetic Field
Strength: 47489.9snT
Dip Angle: 60.12°
Date: 8/19/2022
Model: IGRF2015

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VP - Bill Alexander State Com #124H	9669.0	292.3	700.5	486464.00	799221.00	32° 20' 1.270 N	103° 21' 52.498 W
BHL - Bill Alexander State Com #124H	10242.0	8112.6	632.2	494284.28	799152.78	32° 21' 18.656 N	103° 21' 52.469 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	Start Build 1.00
2300.0	8.00	67.35	2297.4	21.5	51.5	1.00	67.35	21.0	Start 4786.4 hold at 2300.0 MD
7086.4	8.00	67.35	7037.2	278.0	666.2	0.00	0.00	272.2	Start Drop -1.50
7619.7	0.00	0.00	7568.8	292.3	700.5	1.50	180.00	286.2	Start 2100.2 hold at 7619.7 MD
9719.9	0.00	0.00	9669.0	292.3	700.5	0.00	0.00	286.2	Start Build 10.00
10619.9	90.00	359.45	10242.0	865.2	695.0	10.00	359.45	859.1	Start DLS 0.01 TFO 90.36
11270.2	90.00	359.51	10242.0	1515.5	689.1	0.01	90.36	1509.4	Start 6597.4 hold at 11270.2 MD
17867.6	90.00	359.51	10242.0	8112.6	632.2	0.00	0.00	8106.8	TD at 17867.6



Matador Production Company

Antelope Ridge

Bill Alexander

Bill Alexander State Com #124H

Wellbore #1

Plan: State Plan #1

Standard Planning Report

30 January, 2023

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Bill Alexander State Com#124H
Company:	Matador Production Company	TVD Reference:	KB @ 3571.5usft
Project:	Antelope Ridge	MD Reference:	KB @ 3571.5usft
Site:	Bill Alexander	North Reference:	Grid
Well:	Bill Alexander State Com #124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Project	Antelope Ridge		
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	Bill Alexander				
Site Position:		Northing:	486,149.30 usft	Latitude:	32° 19' 58.420 N
From:	Lat/Long	Easting:	796,250.33 usft	Longitude:	103° 22' 27.151 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.51 °

Well	Bill Alexander State Com #124H					
Well Position	+N/-S	22.4 usft	Northing:	486,171.74 usft	Latitude:	32° 19' 58.440 N
	+E/-W	2,270.2 usft	Easting:	798,520.54 usft	Longitude:	103° 22' 0.692 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,543.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/19/2022	6.30	60.12	47,489.89097153

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	359.50

Plan Survey Tool Program	Date	1/30/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,867.6	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	67.35	2,297.4	21.5	51.5	1.00	1.00	0.00	67.35	
7,086.4	8.00	67.35	7,037.2	278.0	666.2	0.00	0.00	0.00	0.00	
7,619.7	0.00	0.00	7,568.8	292.3	700.5	1.50	-1.50	0.00	180.00	
9,719.9	0.00	0.00	9,669.0	292.3	700.5	0.00	0.00	0.00	0.00	VP - Bill Alexander
10,619.9	90.00	359.45	10,242.0	865.2	695.0	10.00	10.00	0.00	359.45	
11,270.2	90.00	359.51	10,242.0	1,515.5	689.1	0.01	0.00	0.01	90.36	
17,867.6	90.00	359.51	10,242.0	8,112.6	632.2	0.00	0.00	0.00	0.00	BHL - Bill Alexander

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Bill Alexander State Com#124H
Company:	Matador Production Company	TVD Reference:	KB @ 3571.5usft
Project:	Antelope Ridge	MD Reference:	KB @ 3571.5usft
Site:	Bill Alexander	North Reference:	Grid
Well:	Bill Alexander State Com #124H	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
1,600.0	1.00	67.35	1,600.0	0.3	0.8	0.3	1.00	1.00	0.00
1,700.0	2.00	67.35	1,700.0	1.3	3.2	1.3	1.00	1.00	0.00
1,800.0	3.00	67.35	1,799.9	3.0	7.2	3.0	1.00	1.00	0.00
1,900.0	4.00	67.35	1,899.7	5.4	12.9	5.3	1.00	1.00	0.00
2,000.0	5.00	67.35	1,999.4	8.4	20.1	8.2	1.00	1.00	0.00
2,100.0	6.00	67.35	2,098.9	12.1	29.0	11.8	1.00	1.00	0.00
2,200.0	7.00	67.35	2,198.3	16.4	39.4	16.1	1.00	1.00	0.00
2,300.0	8.00	67.35	2,297.4	21.5	51.5	21.0	1.00	1.00	0.00
2,400.0	8.00	67.35	2,396.4	26.8	64.3	26.3	0.00	0.00	0.00
2,500.0	8.00	67.35	2,495.5	32.2	77.1	31.5	0.00	0.00	0.00
2,600.0	8.00	67.35	2,594.5	37.5	90.0	36.8	0.00	0.00	0.00
2,700.0	8.00	67.35	2,693.5	42.9	102.8	42.0	0.00	0.00	0.00
2,800.0	8.00	67.35	2,792.5	48.3	115.7	47.3	0.00	0.00	0.00
2,900.0	8.00	67.35	2,891.6	53.6	128.5	52.5	0.00	0.00	0.00
3,000.0	8.00	67.35	2,990.6	59.0	141.4	57.7	0.00	0.00	0.00
3,100.0	8.00	67.35	3,089.6	64.3	154.2	63.0	0.00	0.00	0.00
3,200.0	8.00	67.35	3,188.6	69.7	167.1	68.2	0.00	0.00	0.00
3,300.0	8.00	67.35	3,287.7	75.1	179.9	73.5	0.00	0.00	0.00
3,400.0	8.00	67.35	3,386.7	80.4	192.7	78.7	0.00	0.00	0.00
3,500.0	8.00	67.35	3,485.7	85.8	205.6	84.0	0.00	0.00	0.00
3,600.0	8.00	67.35	3,584.8	91.1	218.4	89.2	0.00	0.00	0.00
3,700.0	8.00	67.35	3,683.8	96.5	231.3	94.5	0.00	0.00	0.00
3,800.0	8.00	67.35	3,782.8	101.9	244.1	99.7	0.00	0.00	0.00
3,900.0	8.00	67.35	3,881.8	107.2	257.0	105.0	0.00	0.00	0.00
4,000.0	8.00	67.35	3,980.9	112.6	269.8	110.2	0.00	0.00	0.00
4,100.0	8.00	67.35	4,079.9	117.9	282.7	115.5	0.00	0.00	0.00
4,200.0	8.00	67.35	4,178.9	123.3	295.5	120.7	0.00	0.00	0.00
4,300.0	8.00	67.35	4,277.9	128.7	308.3	126.0	0.00	0.00	0.00
4,400.0	8.00	67.35	4,377.0	134.0	321.2	131.2	0.00	0.00	0.00
4,500.0	8.00	67.35	4,476.0	139.4	334.0	136.5	0.00	0.00	0.00
4,600.0	8.00	67.35	4,575.0	144.7	346.9	141.7	0.00	0.00	0.00
4,700.0	8.00	67.35	4,674.0	150.1	359.7	146.9	0.00	0.00	0.00
4,800.0	8.00	67.35	4,773.1	155.4	372.6	152.2	0.00	0.00	0.00
4,900.0	8.00	67.35	4,872.1	160.8	385.4	157.4	0.00	0.00	0.00
5,000.0	8.00	67.35	4,971.1	166.2	398.3	162.7	0.00	0.00	0.00
5,100.0	8.00	67.35	5,070.2	171.5	411.1	167.9	0.00	0.00	0.00
5,200.0	8.00	67.35	5,169.2	176.9	423.9	173.2	0.00	0.00	0.00
5,300.0	8.00	67.35	5,268.2	182.2	436.8	178.4	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Bill Alexander State Com#124H
Company:	Matador Production Company	TVD Reference:	KB @ 3571.5usft
Project:	Antelope Ridge	MD Reference:	KB @ 3571.5usft
Site:	Bill Alexander	North Reference:	Grid
Well:	Bill Alexander State Com #124H	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)
5,400.0	8.00	67.35	5,367.2	187.6	449.6	183.7	0.00	0.00	0.00
5,500.0	8.00	67.35	5,466.3	193.0	462.5	188.9	0.00	0.00	0.00
5,600.0	8.00	67.35	5,565.3	198.3	475.3	194.2	0.00	0.00	0.00
5,700.0	8.00	67.35	5,664.3	203.7	488.2	199.4	0.00	0.00	0.00
5,800.0	8.00	67.35	5,763.3	209.0	501.0	204.7	0.00	0.00	0.00
5,900.0	8.00	67.35	5,862.4	214.4	513.8	209.9	0.00	0.00	0.00
6,000.0	8.00	67.35	5,961.4	219.8	526.7	215.2	0.00	0.00	0.00
6,100.0	8.00	67.35	6,060.4	225.1	539.5	220.4	0.00	0.00	0.00
6,200.0	8.00	67.35	6,159.4	230.5	552.4	225.6	0.00	0.00	0.00
6,300.0	8.00	67.35	6,258.5	235.8	565.2	230.9	0.00	0.00	0.00
6,400.0	8.00	67.35	6,357.5	241.2	578.1	236.1	0.00	0.00	0.00
6,500.0	8.00	67.35	6,456.5	246.6	590.9	241.4	0.00	0.00	0.00
6,600.0	8.00	67.35	6,555.6	251.9	603.8	246.6	0.00	0.00	0.00
6,700.0	8.00	67.35	6,654.6	257.3	616.6	251.9	0.00	0.00	0.00
6,800.0	8.00	67.35	6,753.6	262.6	629.4	257.1	0.00	0.00	0.00
6,900.0	8.00	67.35	6,852.6	268.0	642.3	262.4	0.00	0.00	0.00
7,000.0	8.00	67.35	6,951.7	273.3	655.1	267.6	0.00	0.00	0.00
7,086.4	8.00	67.35	7,037.2	278.0	666.2	272.2	0.00	0.00	0.00
7,100.0	7.80	67.35	7,050.7	278.7	668.0	272.9	1.50	-1.50	0.00
7,200.0	6.30	67.35	7,149.9	283.4	679.3	277.5	1.50	-1.50	0.00
7,300.0	4.80	67.35	7,249.5	287.1	688.2	281.1	1.50	-1.50	0.00
7,400.0	3.30	67.35	7,349.2	289.9	694.7	283.8	1.50	-1.50	0.00
7,500.0	1.80	67.35	7,449.1	291.6	698.8	285.5	1.50	-1.50	0.00
7,600.0	0.30	67.35	7,549.1	292.3	700.5	286.1	1.50	-1.50	0.00
7,619.7	0.00	0.00	7,568.8	292.3	700.5	286.2	1.50	-1.50	0.00
7,700.0	0.00	0.00	7,649.1	292.3	700.5	286.2	0.00	0.00	0.00
7,800.0	0.00	0.00	7,749.1	292.3	700.5	286.2	0.00	0.00	0.00
7,900.0	0.00	0.00	7,849.1	292.3	700.5	286.2	0.00	0.00	0.00
8,000.0	0.00	0.00	7,949.1	292.3	700.5	286.2	0.00	0.00	0.00
8,100.0	0.00	0.00	8,049.1	292.3	700.5	286.2	0.00	0.00	0.00
8,200.0	0.00	0.00	8,149.1	292.3	700.5	286.2	0.00	0.00	0.00
8,300.0	0.00	0.00	8,249.1	292.3	700.5	286.2	0.00	0.00	0.00
8,400.0	0.00	0.00	8,349.1	292.3	700.5	286.2	0.00	0.00	0.00
8,500.0	0.00	0.00	8,449.1	292.3	700.5	286.2	0.00	0.00	0.00
8,600.0	0.00	0.00	8,549.1	292.3	700.5	286.2	0.00	0.00	0.00
8,700.0	0.00	0.00	8,649.1	292.3	700.5	286.2	0.00	0.00	0.00
8,800.0	0.00	0.00	8,749.1	292.3	700.5	286.2	0.00	0.00	0.00
8,900.0	0.00	0.00	8,849.1	292.3	700.5	286.2	0.00	0.00	0.00
9,000.0	0.00	0.00	8,949.1	292.3	700.5	286.2	0.00	0.00	0.00
9,100.0	0.00	0.00	9,049.1	292.3	700.5	286.2	0.00	0.00	0.00
9,200.0	0.00	0.00	9,149.1	292.3	700.5	286.2	0.00	0.00	0.00
9,300.0	0.00	0.00	9,249.1	292.3	700.5	286.2	0.00	0.00	0.00
9,400.0	0.00	0.00	9,349.1	292.3	700.5	286.2	0.00	0.00	0.00
9,500.0	0.00	0.00	9,449.1	292.3	700.5	286.2	0.00	0.00	0.00
9,600.0	0.00	0.00	9,549.1	292.3	700.5	286.2	0.00	0.00	0.00
9,700.0	0.00	0.00	9,649.1	292.3	700.5	286.2	0.00	0.00	0.00
9,719.9	0.00	0.00	9,669.0	292.3	700.5	286.2	0.00	0.00	0.00
9,800.0	8.01	359.45	9,748.8	297.9	700.5	291.8	10.00	10.00	0.00
9,900.0	18.01	359.45	9,846.1	320.4	700.3	314.2	10.00	10.00	0.00
10,000.0	28.01	359.45	9,938.1	359.4	699.9	353.3	10.00	10.00	0.00
10,100.0	38.01	359.45	10,021.8	413.8	699.4	407.7	10.00	10.00	0.00
10,200.0	48.01	359.45	10,094.9	481.9	698.7	475.8	10.00	10.00	0.00
10,300.0	58.01	359.45	10,154.9	561.7	697.9	555.6	10.00	10.00	0.00
10,400.0	68.01	359.45	10,200.3	650.7	697.1	644.6	10.00	10.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Bill Alexander State Com#124H
Company:	Matador Production Company	TVD Reference:	KB @ 3571.5usft
Project:	Antelope Ridge	MD Reference:	KB @ 3571.5usft
Site:	Bill Alexander	North Reference:	Grid
Well:	Bill Alexander State Com #124H	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)
10,500.0	78.01	359.45	10,229.5	746.2	696.2	740.1	10.00	10.00	0.00
10,600.0	88.01	359.45	10,241.6	845.3	695.2	839.2	10.00	10.00	0.00
10,619.9	90.00	359.45	10,242.0	865.2	695.0	859.1	10.00	10.00	0.00
10,700.0	90.00	359.46	10,242.0	945.3	694.3	939.2	0.01	0.00	0.01
10,800.0	90.00	359.47	10,242.0	1,045.3	693.3	1,039.2	0.01	0.00	0.01
10,900.0	90.00	359.47	10,242.0	1,145.3	692.4	1,139.2	0.01	0.00	0.01
11,000.0	90.00	359.48	10,242.0	1,245.3	691.5	1,239.2	0.01	0.00	0.01
11,100.0	90.00	359.49	10,242.0	1,345.3	690.6	1,339.2	0.01	0.00	0.01
11,200.0	90.00	359.50	10,242.0	1,445.3	689.7	1,439.2	0.01	0.00	0.01
11,270.2	90.00	359.51	10,242.0	1,515.5	689.1	1,509.4	0.01	0.00	0.01
11,300.0	90.00	359.51	10,242.0	1,545.3	688.9	1,539.2	0.00	0.00	0.00
11,400.0	90.00	359.51	10,242.0	1,645.3	688.0	1,639.2	0.00	0.00	0.00
11,500.0	90.00	359.51	10,242.0	1,745.3	687.1	1,739.2	0.00	0.00	0.00
11,600.0	90.00	359.51	10,242.0	1,845.3	686.3	1,839.2	0.00	0.00	0.00
11,700.0	90.00	359.51	10,242.0	1,945.3	685.4	1,939.2	0.00	0.00	0.00
11,800.0	90.00	359.51	10,242.0	2,045.3	684.5	2,039.2	0.00	0.00	0.00
11,900.0	90.00	359.51	10,242.0	2,145.3	683.7	2,139.2	0.00	0.00	0.00
12,000.0	90.00	359.51	10,242.0	2,245.3	682.8	2,239.2	0.00	0.00	0.00
12,100.0	90.00	359.51	10,242.0	2,345.3	682.0	2,339.2	0.00	0.00	0.00
12,200.0	90.00	359.51	10,242.0	2,445.3	681.1	2,439.2	0.00	0.00	0.00
12,300.0	90.00	359.51	10,242.0	2,545.2	680.2	2,539.2	0.00	0.00	0.00
12,400.0	90.00	359.51	10,242.0	2,645.2	679.4	2,639.2	0.00	0.00	0.00
12,500.0	90.00	359.51	10,242.0	2,745.2	678.5	2,739.2	0.00	0.00	0.00
12,600.0	90.00	359.51	10,242.0	2,845.2	677.6	2,839.2	0.00	0.00	0.00
12,700.0	90.00	359.51	10,242.0	2,945.2	676.8	2,939.2	0.00	0.00	0.00
12,800.0	90.00	359.51	10,242.0	3,045.2	675.9	3,039.2	0.00	0.00	0.00
12,900.0	90.00	359.51	10,242.0	3,145.2	675.1	3,139.2	0.00	0.00	0.00
13,000.0	90.00	359.51	10,242.0	3,245.2	674.2	3,239.2	0.00	0.00	0.00
13,100.0	90.00	359.51	10,242.0	3,345.2	673.3	3,339.2	0.00	0.00	0.00
13,200.0	90.00	359.51	10,242.0	3,445.2	672.5	3,439.2	0.00	0.00	0.00
13,300.0	90.00	359.51	10,242.0	3,545.2	671.6	3,539.2	0.00	0.00	0.00
13,400.0	90.00	359.51	10,242.0	3,645.2	670.8	3,639.2	0.00	0.00	0.00
13,500.0	90.00	359.51	10,242.0	3,745.2	669.9	3,739.2	0.00	0.00	0.00
13,600.0	90.00	359.51	10,242.0	3,845.2	669.0	3,839.2	0.00	0.00	0.00
13,700.0	90.00	359.51	10,242.0	3,945.2	668.2	3,939.2	0.00	0.00	0.00
13,800.0	90.00	359.51	10,242.0	4,045.2	667.3	4,039.2	0.00	0.00	0.00
13,900.0	90.00	359.51	10,242.0	4,145.2	666.4	4,139.2	0.00	0.00	0.00
14,000.0	90.00	359.51	10,242.0	4,245.2	665.6	4,239.2	0.00	0.00	0.00
14,100.0	90.00	359.51	10,242.0	4,345.2	664.7	4,339.2	0.00	0.00	0.00
14,200.0	90.00	359.51	10,242.0	4,445.2	663.9	4,439.2	0.00	0.00	0.00
14,300.0	90.00	359.51	10,242.0	4,545.2	663.0	4,539.2	0.00	0.00	0.00
14,400.0	90.00	359.51	10,242.0	4,645.2	662.1	4,639.2	0.00	0.00	0.00
14,500.0	90.00	359.51	10,242.0	4,745.2	661.3	4,739.2	0.00	0.00	0.00
14,600.0	90.00	359.51	10,242.0	4,845.2	660.4	4,839.2	0.00	0.00	0.00
14,700.0	90.00	359.51	10,242.0	4,945.2	659.5	4,939.2	0.00	0.00	0.00
14,800.0	90.00	359.51	10,242.0	5,045.2	658.7	5,039.2	0.00	0.00	0.00
14,900.0	90.00	359.51	10,242.0	5,145.2	657.8	5,139.2	0.00	0.00	0.00
15,000.0	90.00	359.51	10,242.0	5,245.1	657.0	5,239.2	0.00	0.00	0.00
15,100.0	90.00	359.51	10,242.0	5,345.1	656.1	5,339.2	0.00	0.00	0.00
15,200.0	90.00	359.51	10,242.0	5,445.1	655.2	5,439.2	0.00	0.00	0.00
15,300.0	90.00	359.51	10,242.0	5,545.1	654.4	5,539.2	0.00	0.00	0.00
15,400.0	90.00	359.51	10,242.0	5,645.1	653.5	5,639.2	0.00	0.00	0.00
15,500.0	90.00	359.51	10,242.0	5,745.1	652.6	5,739.2	0.00	0.00	0.00
15,600.0	90.00	359.51	10,242.0	5,845.1	651.8	5,839.2	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Bill Alexander State Com#124H
Company:	Matador Production Company	TVD Reference:	KB @ 3571.5usft
Project:	Antelope Ridge	MD Reference:	KB @ 3571.5usft
Site:	Bill Alexander	North Reference:	Grid
Well:	Bill Alexander State Com #124H	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)	
15,700.0	90.00	359.51	10,242.0	5,945.1	650.9	5,939.2	0.00	0.00	0.00	
15,800.0	90.00	359.51	10,242.0	6,045.1	650.1	6,039.2	0.00	0.00	0.00	
15,900.0	90.00	359.51	10,242.0	6,145.1	649.2	6,139.2	0.00	0.00	0.00	
16,000.0	90.00	359.51	10,242.0	6,245.1	648.3	6,239.2	0.00	0.00	0.00	
16,100.0	90.00	359.51	10,242.0	6,345.1	647.5	6,339.2	0.00	0.00	0.00	
16,200.0	90.00	359.51	10,242.0	6,445.1	646.6	6,439.2	0.00	0.00	0.00	
16,300.0	90.00	359.51	10,242.0	6,545.1	645.8	6,539.2	0.00	0.00	0.00	
16,400.0	90.00	359.51	10,242.0	6,645.1	644.9	6,639.2	0.00	0.00	0.00	
16,500.0	90.00	359.51	10,242.0	6,745.1	644.0	6,739.2	0.00	0.00	0.00	
16,600.0	90.00	359.51	10,242.0	6,845.1	643.2	6,839.2	0.00	0.00	0.00	
16,700.0	90.00	359.51	10,242.0	6,945.1	642.3	6,939.2	0.00	0.00	0.00	
16,800.0	90.00	359.51	10,242.0	7,045.1	641.4	7,039.2	0.00	0.00	0.00	
16,900.0	90.00	359.51	10,242.0	7,145.1	640.6	7,139.2	0.00	0.00	0.00	
17,000.0	90.00	359.51	10,242.0	7,245.1	639.7	7,239.2	0.00	0.00	0.00	
17,100.0	90.00	359.51	10,242.0	7,345.1	638.9	7,339.2	0.00	0.00	0.00	
17,200.0	90.00	359.51	10,242.0	7,445.1	638.0	7,439.2	0.00	0.00	0.00	
17,300.0	90.00	359.51	10,242.0	7,545.1	637.1	7,539.2	0.00	0.00	0.00	
17,400.0	90.00	359.51	10,242.0	7,645.1	636.3	7,639.2	0.00	0.00	0.00	
17,500.0	90.00	359.51	10,242.0	7,745.1	635.4	7,739.2	0.00	0.00	0.00	
17,600.0	90.00	359.51	10,242.0	7,845.1	634.5	7,839.2	0.00	0.00	0.00	
17,700.0	90.00	359.51	10,242.0	7,945.0	633.7	7,939.2	0.00	0.00	0.00	
17,800.0	90.00	359.51	10,242.0	8,045.0	632.8	8,039.2	0.00	0.00	0.00	
17,867.6	90.00	359.51	10,242.0	8,112.6	632.2	8,106.8	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
VP - Bill Alexander St: - hit/miss target - Shape - Point	0.00	0.01	9,669.0	292.3	700.5	486,464.00	799,221.00	32° 20' 1.270 N	103° 21' 52.498 W	
BHL - Bill Alexander S - plan hits target center - Point	0.00	0.00	10,242.0	8,112.6	632.2	494,284.28	799,152.77	32° 21' 18.656 N	103° 21' 52.469 W	

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Bill Alexander State Com#124H
Company:	Matador Production Company	TVD Reference:	KB @ 3571.5usft
Project:	Antelope Ridge	MD Reference:	KB @ 3571.5usft
Site:	Bill Alexander	North Reference:	Grid
Well:	Bill Alexander State Com #124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,960.5	1,960.0	Rustler			359.50	
2,680.3	2,674.0	Salado (TOP SALT)			359.50	
4,227.4	4,206.0	G30:CS14-CSB (BASE SALT)			359.50	
4,370.7	4,348.0	YATES			359.50	
4,679.8	4,654.0	CAPITAN			359.50	
6,219.7	6,179.0	G26: Bell Cyn.			359.50	
6,602.5	6,558.0	G13: Cherry Cyn.			359.50	
7,714.9	7,664.0	G7: Brushy Cyn.			359.50	
8,794.9	8,744.0	G4: BSG (CS9)			359.50	
8,996.9	8,946.0	L8.2: U. Avalon Shale			359.50	
9,110.9	9,060.0	L6.3: Avalon Carb			359.50	
9,746.9	9,696.0	L5.3: FBSC			359.50	
9,778.0	9,727.0	L5.1: FBSC			359.50	
9,846.9	9,795.0	M. FBSC			359.50	
9,916.8	9,862.0	L. FBSC			359.50	
10,003.3	9,941.0	L4.3: SBSC			359.50	
10,421.7	10,208.0	L4.1: SBSC			359.50	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,500.0	1,500.0	0.0	0.0	Start Build 1.00	
2,300.0	2,297.4	21.5	51.5	Start 4786.4 hold at 2300.0 MD	
7,086.4	7,037.2	278.0	666.2	Start Drop -1.50	
7,619.7	7,568.8	292.3	700.5	Start 2100.2 hold at 7619.7 MD	
9,719.9	9,669.0	292.3	700.5	Start Build 10.00	
10,619.9	10,242.0	865.2	695.0	Start DLS 0.01 TFO 90.36	
11,270.2	10,242.0	1,515.5	689.1	Start 6597.4 hold at 11270.2 MD	
17,867.6	10,242.0	8,112.6	632.2	TD at 17867.6	

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:** 1-3-23

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
Bill Alexander State Com 114H	TBD	UL-1 Sec 4 T23S R35E	2,406' FSL 1,003' FEL	1,000	2,000	4,000
Bill Alexander State Com 124H	TBD	UL-1 Sec 4 T23S R35E	2,406' FSL 1,033' FEL	1,000	2,000	4,000

IV. Central Delivery Point Name: Marlan East 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
Bill Alexander State Com 114H	TBD	7/8/2023	7/26/2023	9/15/2023	10/15/2023	10/15/2023
Bill Alexander State Com 124H	TBD	7/27/2023	8/14/2023	9/15/2023	10/15/2023	10/15/2023

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: 1-3-23

Phone: (972) 619-1276

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:

Title:

Approval Date:

Conditions of Approval:

Addendum to Natural Gas Management Plan for Matador's

Bill Alexander State Com 114H and 124H

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
Bill Alexander State Com 114H	1,000	2,000	4,000
Bill Alexander State Com 124H	1,000	2,000	4,000

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