

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 297645

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 30-015-48618
4. Property Code 331076	5. Property Name GEORGE 14 15 24S 28E	6. Well No. 113H

7. Surface Location

UL - Lot I	Section 14	Township 24S	Range 28E	Lot Idn I	Feet From 1621	N/S Line S	Feet From 220	E/W Line E	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot L	Section 15	Township 24S	Range 28E	Lot Idn L	Feet From 1980	N/S Line S	Feet From 60	E/W Line W	County Eddy
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9. Pool Information

MALAGA;BONE SPRING	42780
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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 2974
16. Multiple N	17. Proposed Depth 17755	18. Formation Bone Spring	19. Contractor	20. Spud Date 7/30/2021
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	600	400	0
Int1	12.25	9.625	40	2750	730	0
Prod	8.75	5.5	20	17755	2800	2550

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:

Printed Name: Electronically filed by Brett A Jennings	Approved By: Kurt Simmons	
Title: Regulatory Analyst	Title: Petroleum Specialist - A	
Email Address: brett.jennings@matadorresources.com	Approved Date: 6/29/2021	Expiration Date: 6/29/2023
Date: 6/24/2021	Phone: 972-629-2160	Conditions of Approval Attached

OIL CONSERVATION DIVISION

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Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code 50371 42780	³ Pool Name Pierce Crossing, Bone Spring MALAGA;BONE SPRING
⁴ Property Code	⁵ Property Name GEORGE 14&15-24S-28E	⁶ Well Number 113H
⁷ OGRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 2974'

¹⁰Surface Location

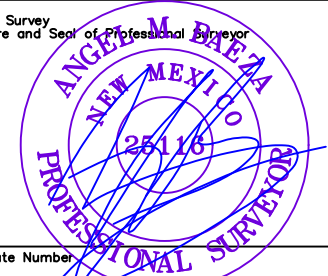
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	14	24-S	28-E	-	1621'	SOUTH	220'	EAST	EDDY

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	15	24-S	28-E	-	1980'	SOUTH	60'	WEST	EDDY

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

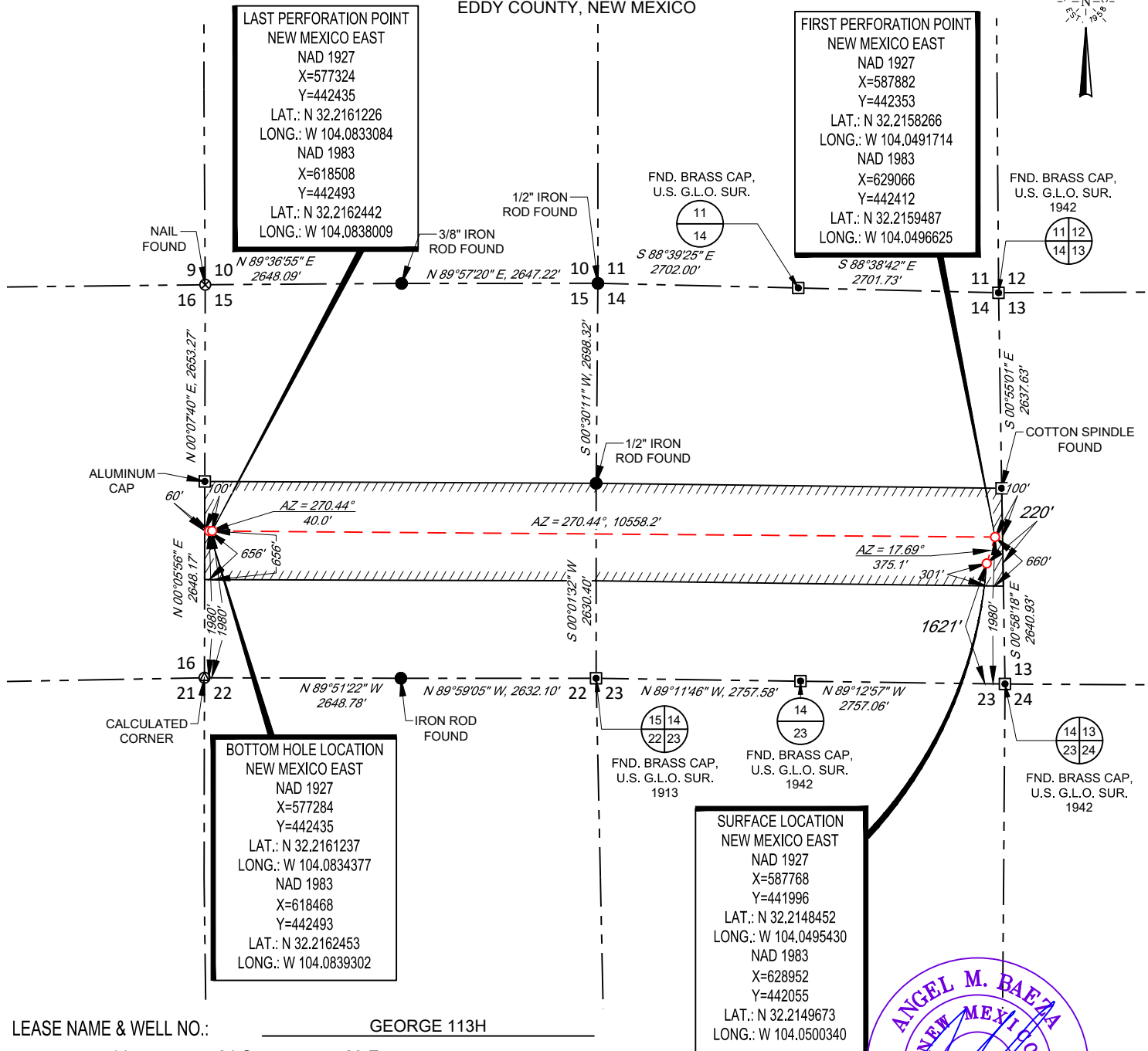
¹⁶ LAST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=577324 Y=442435 LAT.: N 32.2161226 LONG.: W 104.0833084 NAD 1983 X=618508 Y=442493 LAT.: N 32.2162442 LONG.: W 104.0838009 FIRST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=587882 Y=442353 LAT.: N 32.2158266 LONG.: W 104.0491714 NAD 1983 X=629066 Y=442412 LAT.: N 32.2159487 LONG.: W 104.0496625				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature  Date 6/22/2021 Printed Name Brett Jennings E-mail Address Brett.Jennings@matadorresources.com	
BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1927 X=577284 Y=442435 LAT.: N 32.2161237 LONG.: W 104.0834377 NAD 1983 X=618468 Y=442493 LAT.: N 32.2162453 LONG.: W 104.0839302 SURFACE LOCATION NEW MEXICO EAST NAD 1927 X=587768 Y=441996 LAT.: N 32.2148452 LONG.: W 104.0495430 NAD 1983 X=628952 Y=442055 LAT.: N 32.2149673 LONG.: W 104.0500340				¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief. Date of Survey 08/27/2020 Signature and Seal of Professional Surveyor  Certificate Number	

SCALE: 1" = 2000'

0' 1000' 2000'



SECTION 14, TOWNSHIP 24-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: _____ GEORGE 113H

SECTION 14 TWP 24-S RGE 28-E SURVEY N.M.P.M.

COUNTY EDDY STATE NM

DESCRIPTION 1621' FSL & 220' FEL

DISTANCE & DIRECTION

FROM INT. OF US-285 & DUARTE RD.. GO EAST ON DUARTE RD. ±1.3
MILES, THENCE SOUTH (RIGHT) ON McDONALD RD. ±0.8 MILES TO A
POINT ±220 FEET EAST 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

September 2, 2020



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

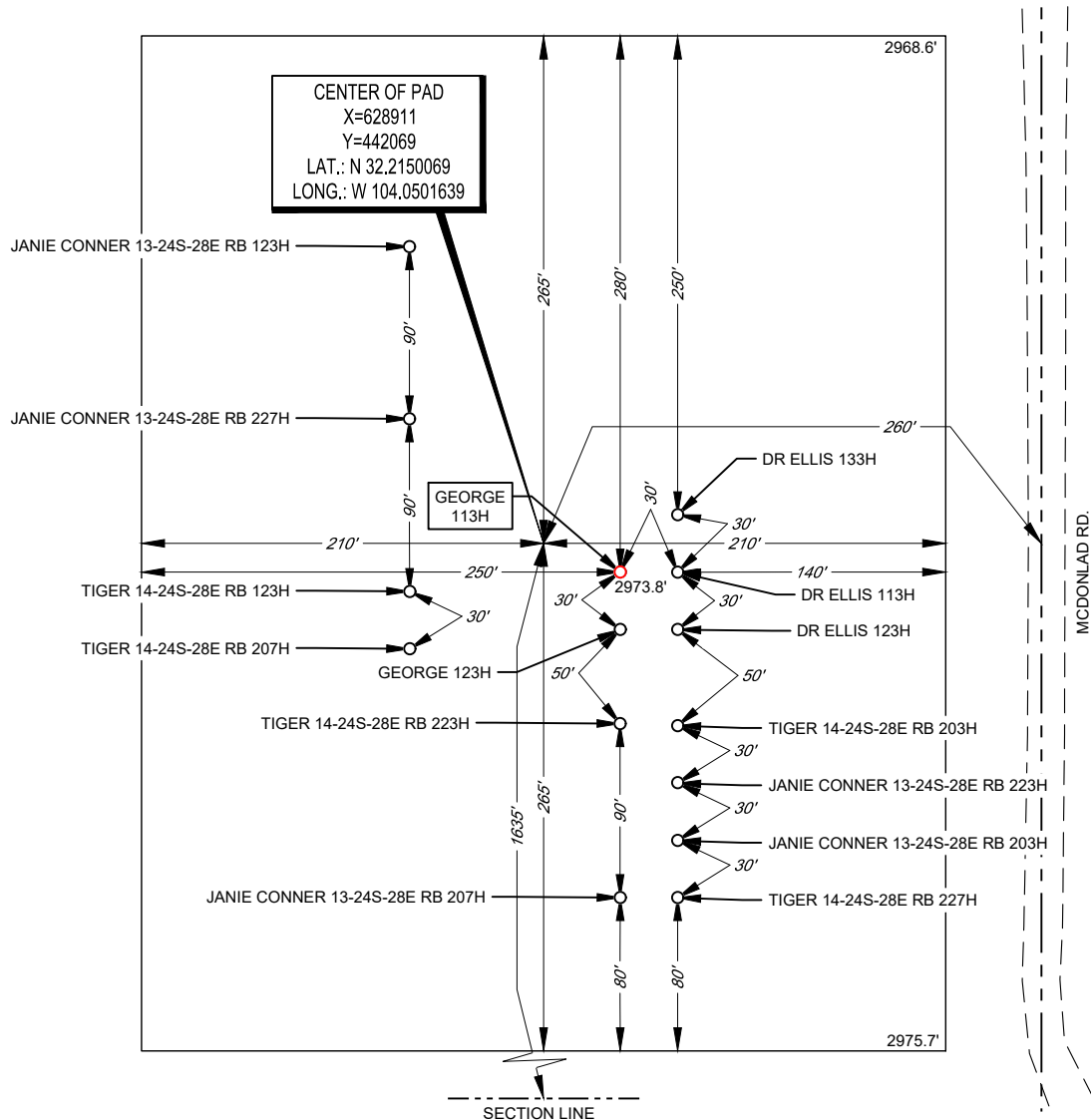


LEGEND

--- SECTION LINE
 === ROAD WAY

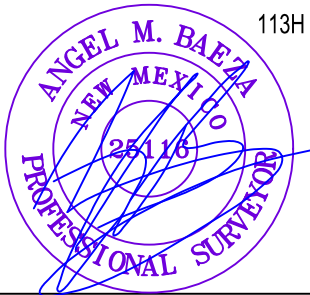
SECTION 14, TOWNSHIP 24-S, RANGE 28-E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

DETAIL VIEW
 SCALE: 1" = 100'



LEASE NAME & WELL NO.: GEORGE 113H
 113H LATITUDE N 32.2149673 113H LONGITUDE W 104.0500340

CENTER OF PAD IS 1635' FSL & 260' FEL

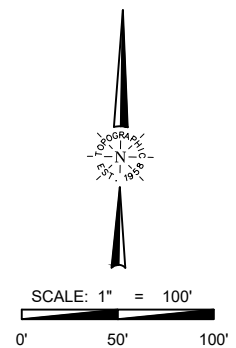


Angel M. Baeza, P.S. No. 25116

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

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form APD Conditions

Permit 297645

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	API Number: 30-015-48618
	Well: GEORGE 14 15 24S 28E #113H

OCD Reviewer	Condition
ksimmons	Notify OCD 24 hours prior to casing & cement
ksimmons	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ksimmons	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
kpickford	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
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	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

Page 5

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Mutador Production Company **OGRID:** 228937 **Date:** 06/22/2021

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
			255' FEL			
George 114H		P 14-245-285	350' FSL	1906	5082	6031
George 113H		I 14-245-285	1621' FSL	1906	5082	6031
			220' FEL			

IV. Central Delivery Point Name: Tiger TB 32.211° - 104.051° [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
George 114H		03/24/2022	04/10/2022	05/16/2022	07/26/2022	07/26/2022
George 113H		03/02/2022	03/19/2022	05/26/2022	07/23/2022	07/23/2022

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

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

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

Section 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.

Page 8

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:	Omar Enriquez
Title:	Sr. Production Engineer
E-mail Address:	oenriquez@mutindoresources.com
Date:	06/22/2021
Phone:	972-587-4638
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
George 113H and 114H

VI. Separation Equipment

Flow from the wells will be routed via flowlines to a 48"x15' three phase separator dedicated to each well. These first stage separators are sized with input from BRE ProMax and API 12J. Expected production from each well is approximately 5,082 mcf/d, 1,906 bopd, and 6,031 bwpd. Liquid retention times at expected maximum rates will be >3 minutes. Gas will be routed from the first stage separators to sales. Hydrocarbon liquids are dumped from the first stage separators and commingled to one or more heater treaters. The flash gas from the heater treater(s) could either be sent to sales or routed to a compressor if the sales line pressure is higher than the MAWP of the heater treater (125 psi). From the heater treaters, hydrocarbon liquid will be routed to the tanks where vapor is compressed by a VRU if technically feasible to either sales or a compressor if the sales line pressure is higher than the VRU's maximum discharge pressure (~150 psi). Therefore, Matador has sized our separation equipment to optimize gas capture and our separation equipment is of sufficient size to handle the expected volumes of gas.

VII. Operation Practices

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

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

VII. Best Management Practices

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

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

Well Name: George 14&15-24S-28E #113H

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	600	0	400	0	
INT 1	BRINE	12.25	9.625	J-55	40.00	2750	0	730	0	
PROD	CUT BRINE	8.75	5.5	P-110	20.00	17755	0	2800	2550	



SURVEY PROGRAM

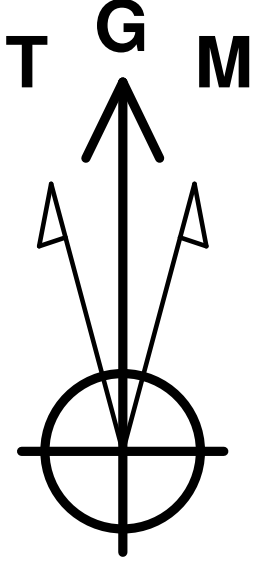
WELL DETAILS: George #113H

Depth From	Depth To	Survey/Plan	Tool				GL @ 2974.0	KB @ 3002.5usft			
0.0	17755.5	State Plan #1 (Wellbore #1)	MWD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
				0.0	0.0	441995.87	587767.90	32° 12' 53.443 N	104° 2' 58.355 W		

Company: Matador Production Company
Well: George #113H
County:
Wellbore: Wellbore #1
Plan: State Plan #1
Date: 10/7/2020

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 6.67°
To convert a Magnetic Direction to a True Direction, Add 6.82° East
To convert a True Direction to a Grid Direction, Subtract 0.15°



Azimuths to Grid North
True North: -0.15°
Magnetic North: 6.67°

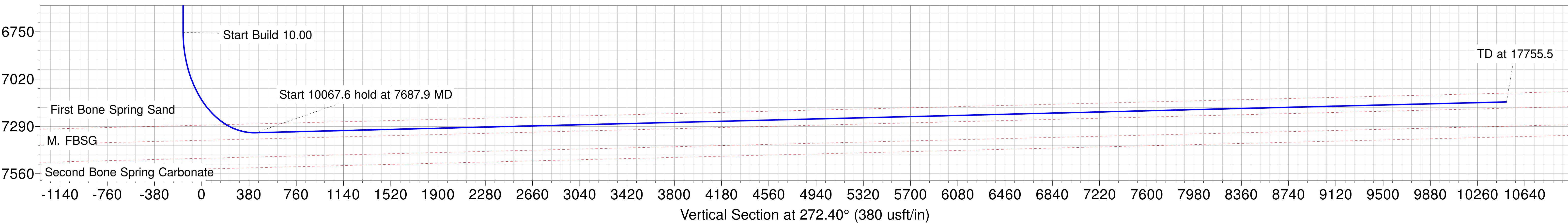
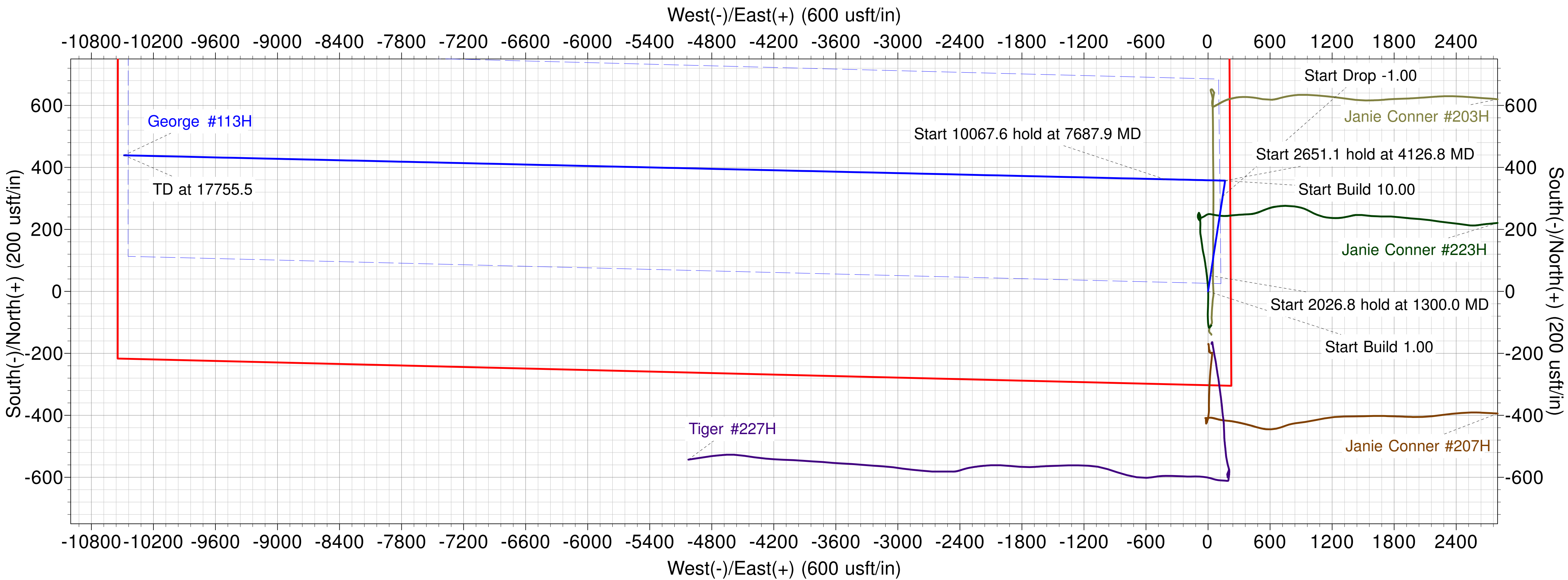
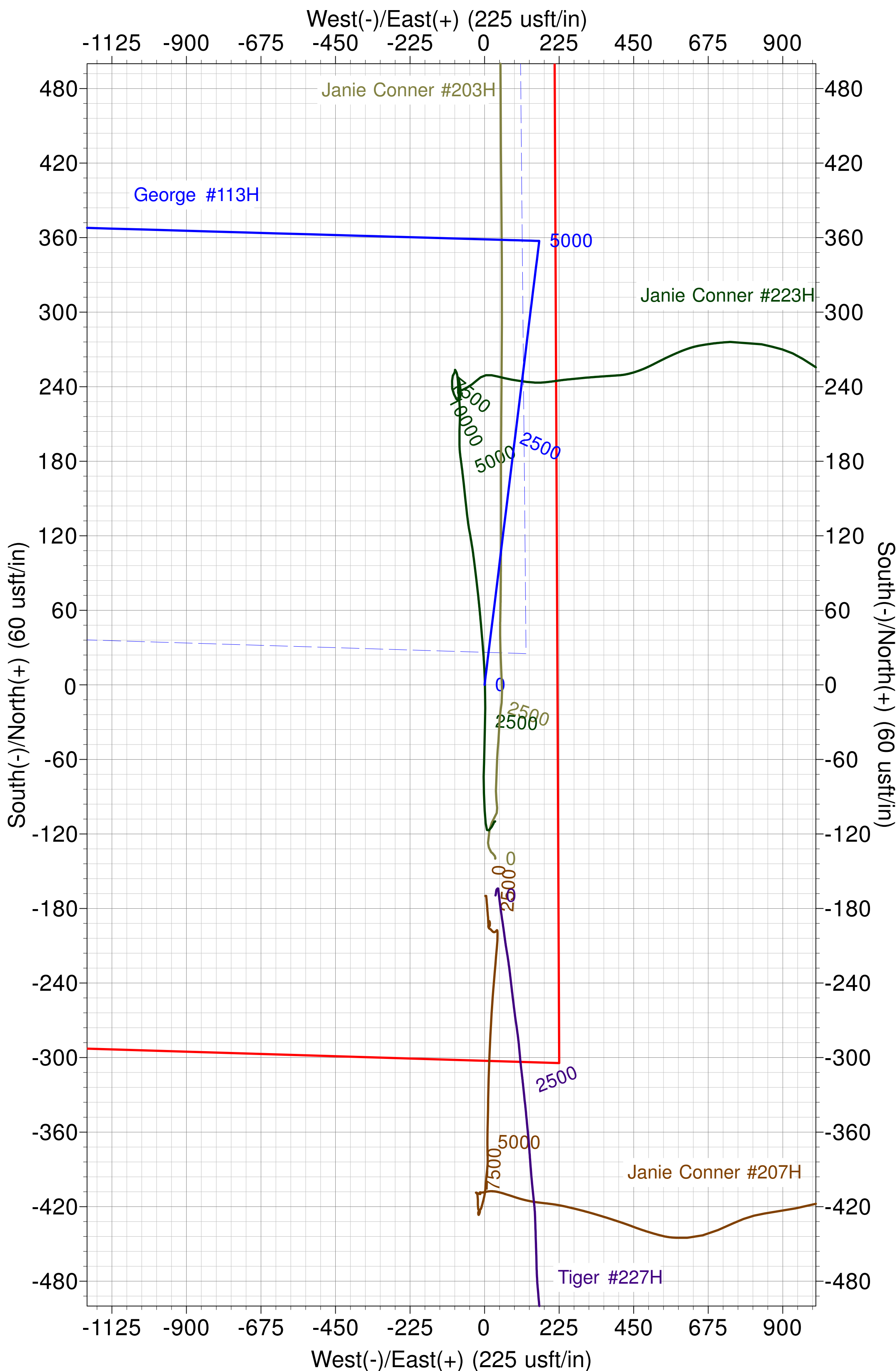
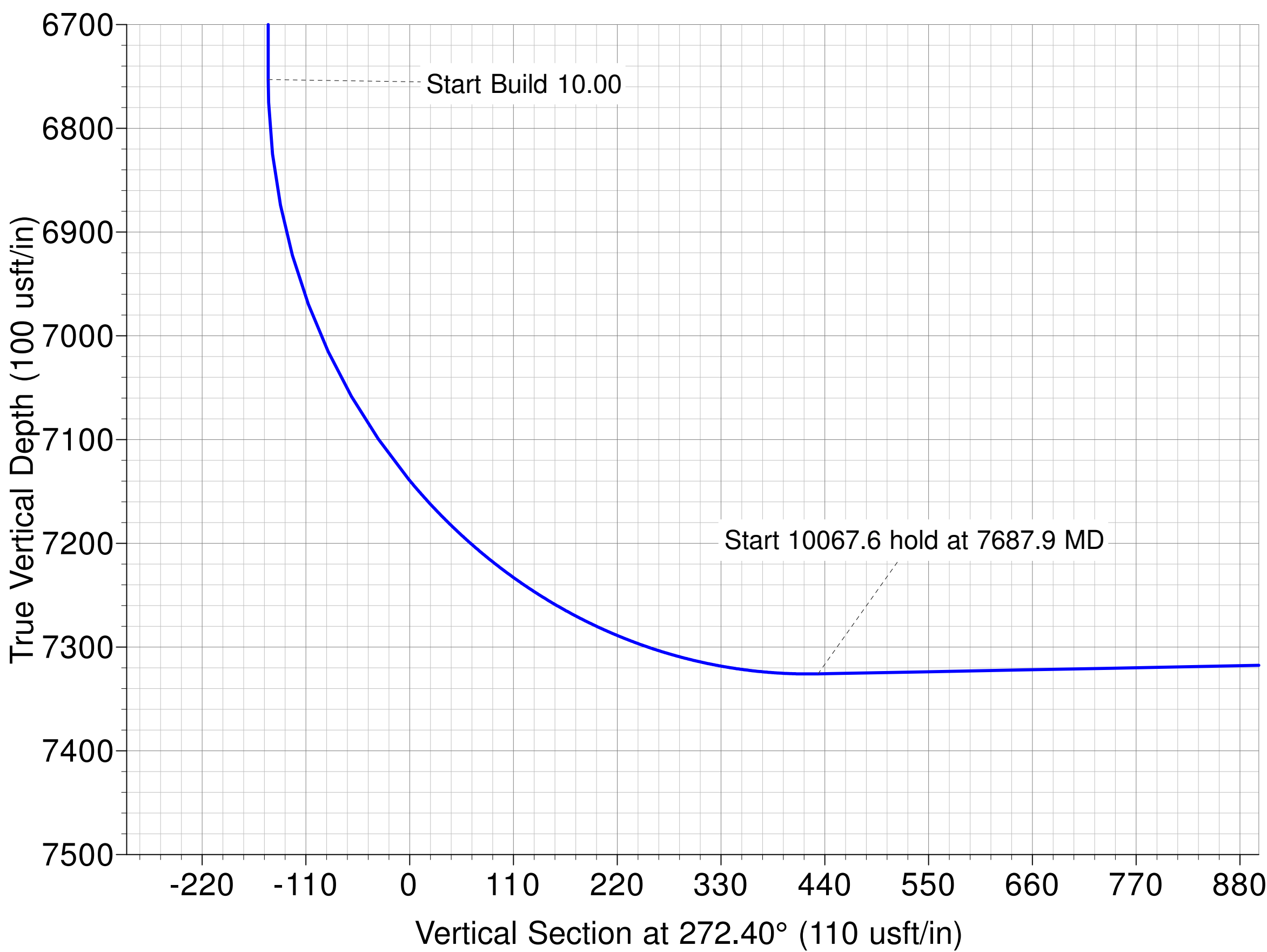
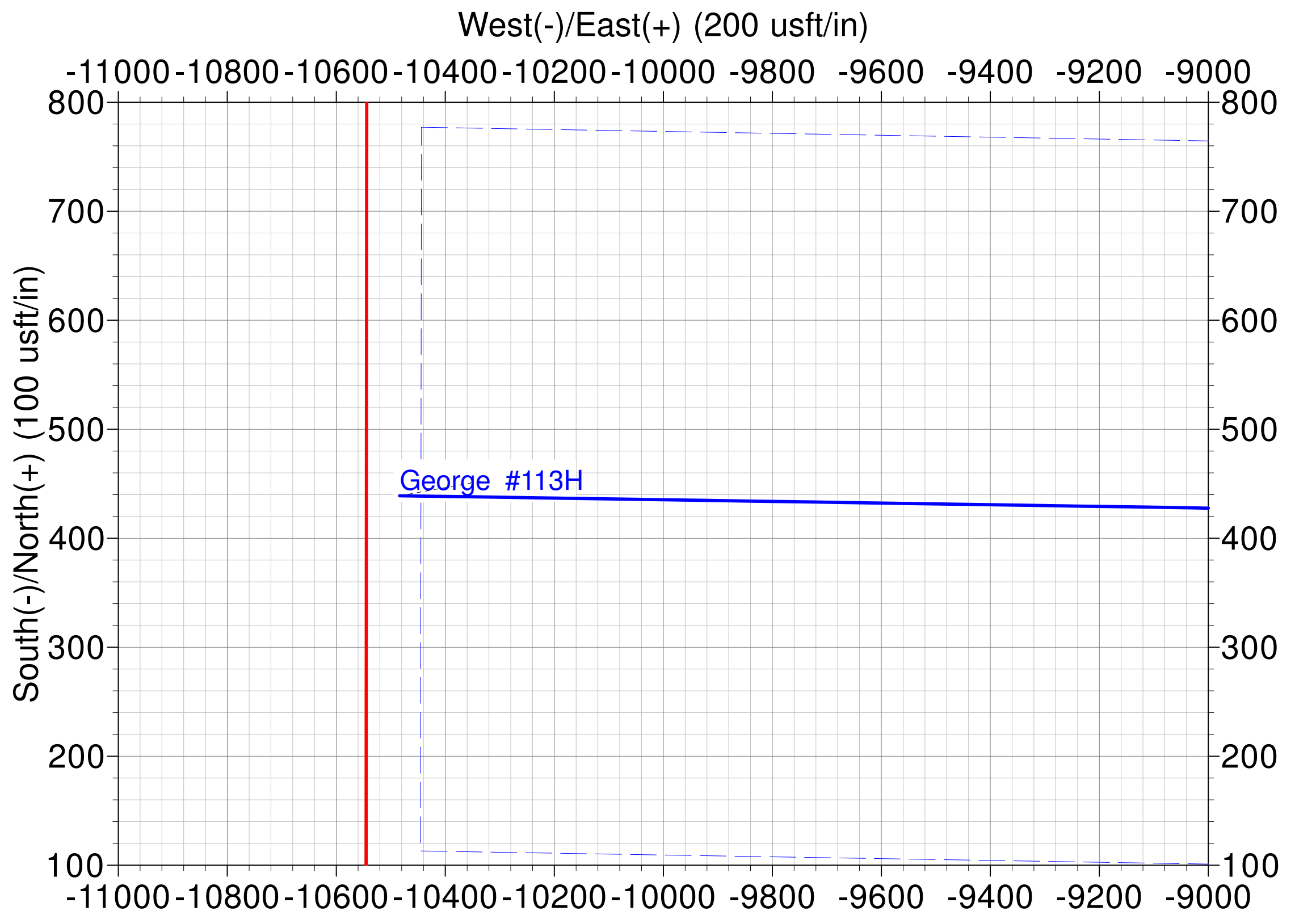
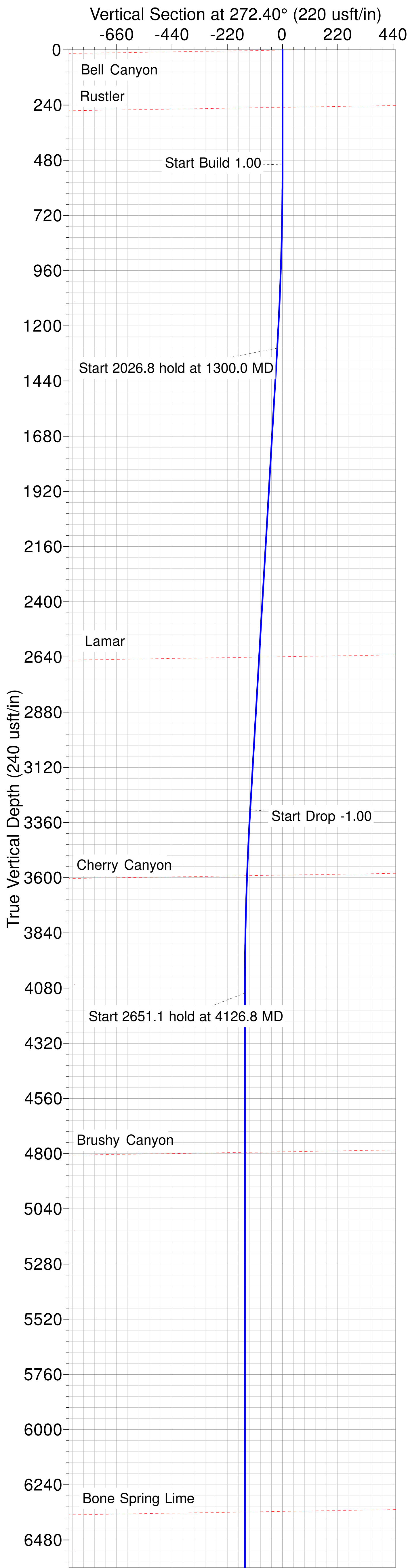
Magnetic Field
Strength: 47546.1snT
Dip Angle: 59.94°
Date: 10/7/2020
Model: IGRF2015

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VP - George #113H	6753.0	357.3	165.0	442353.18	587932.89	32° 12' 56.974 N	104° 2' 56.423 W
BHL - George #113H	7150.2	439.1	-10483.7	442434.92	577284.17	32° 12' 58.045 N	104° 5' 0.376 W

SECTION DETIALS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	Start Build 1.00
1300.0	8.00	24.78	1297.4	50.6	23.4	1.00	24.78	-21.2	Start 2026.8 hold at 1300.0 MD
3326.8	8.00	24.78	3304.5	306.7	141.6	0.00	0.00	-128.7	Start Drop -1.00
4126.8	0.00	0.00	4101.9	357.3	165.0	1.00	180.00	-149.9	Start 2651.1 hold at 4126.8 MD
6777.9	0.00	0.00	6753.0	357.3	165.0	0.00	0.00	-149.9	Start Build 10.00
7687.9	91.00	270.44	7325.9	361.8	-417.9	10.00	270.44	432.7	Start 10067.6 hold at 7687.9 MD
17755.5	91.00	270.44	7150.2	439.1	-10483.7	0.00	0.00	10492.9	TD at 17755.5



Matador Production Company

Rustler Breaks

RB - Section 15/14/13/18 - Slot 3

George #113H

Wellbore #1

Plan: State Plan #1

Standard Planning Report

09 October, 2020

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Site RB - Section 15/14/13/18 - Slot 3
Company:	Matador Production Company	TVD Reference:	KB @ 3002.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3002.5usft
Site:	RB - Section 15/14/13/18 - Slot 3	North Reference:	Grid
Well:	George #113H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Project	Rustler Breaks,		
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	RB - Section 15/14/13/18 - Slot 3		
Site Position:		Northing:	441,995.87 usft
From:	Lat/Long	Easting:	587,767.91 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 12' 53.443 N
		Longitude:	104° 2' 58.355 W
		Grid Convergence:	0.15 °

Well	George #113H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/7/2020	6.82	59.94	47,546.13251680

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	272.40

Plan Survey Tool Program	Date	10/8/2020		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,755.5	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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,300.0	8.00	24.78	1,297.4	50.6	23.4	1.00	1.00	0.00	24.78	
3,326.8	8.00	24.78	3,304.5	306.7	141.6	0.00	0.00	0.00	0.00	
4,126.8	0.00	0.00	4,101.9	357.3	165.0	1.00	-1.00	0.00	180.00	
6,777.9	0.00	0.00	6,753.0	357.3	165.0	0.00	0.00	0.00	0.00	VP - George #113H
7,687.9	91.00	270.44	7,325.9	361.8	-417.9	10.00	10.00	0.00	270.44	
17,755.5	91.00	270.44	7,150.2	439.1	-10,483.7	0.00	0.00	0.00	0.00	BHL - George #113

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Site RB - Section 15/14/13/18 - Slot 3
Company:	Matador Production Company	TVD Reference:	KB @ 3002.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3002.5usft
Site:	RB - Section 15/14/13/18 - Slot 3	North Reference:	Grid
Well:	George #113H	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
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
Bell Canyon									
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
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
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	1.00	24.78	600.0	0.8	0.4	-0.3	1.00	1.00	0.00
700.0	2.00	24.78	700.0	3.2	1.5	-1.3	1.00	1.00	0.00
800.0	3.00	24.78	799.9	7.1	3.3	-3.0	1.00	1.00	0.00
900.0	4.00	24.78	899.7	12.7	5.9	-5.3	1.00	1.00	0.00
1,000.0	5.00	24.78	999.4	19.8	9.1	-8.3	1.00	1.00	0.00
1,100.0	6.00	24.78	1,098.9	28.5	13.2	-12.0	1.00	1.00	0.00
1,200.0	7.00	24.78	1,198.3	38.8	17.9	-16.3	1.00	1.00	0.00
1,300.0	8.00	24.78	1,297.4	50.6	23.4	-21.2	1.00	1.00	0.00
1,400.0	8.00	24.78	1,396.4	63.3	29.2	-26.5	0.00	0.00	0.00
1,500.0	8.00	24.78	1,495.5	75.9	35.0	-31.8	0.00	0.00	0.00
Start Build 1.00									
1,600.0	8.00	24.78	1,594.5	88.5	40.9	-37.1	0.00	0.00	0.00
1,700.0	8.00	24.78	1,693.5	101.2	46.7	-42.4	0.00	0.00	0.00
1,800.0	8.00	24.78	1,792.5	113.8	52.5	-47.7	0.00	0.00	0.00
1,900.0	8.00	24.78	1,891.6	126.4	58.4	-53.0	0.00	0.00	0.00
2,000.0	8.00	24.78	1,990.6	139.1	64.2	-58.3	0.00	0.00	0.00
2,100.0	8.00	24.78	2,089.6	151.7	70.0	-63.6	0.00	0.00	0.00
2,200.0	8.00	24.78	2,188.6	164.3	75.9	-68.9	0.00	0.00	0.00
2,300.0	8.00	24.78	2,287.7	177.0	81.7	-74.2	0.00	0.00	0.00
Start 2026.8 hold at 2300.0 MD									
2,400.0	8.00	24.78	2,386.7	189.6	87.6	-79.5	0.00	0.00	0.00
2,500.0	8.00	24.78	2,485.7	202.2	93.4	-84.8	0.00	0.00	0.00
2,600.0	8.00	24.78	2,584.8	214.9	99.2	-90.1	0.00	0.00	0.00
2,656.6	8.00	24.78	2,640.8	222.0	102.5	-93.1	0.00	0.00	0.00
Lamar									
2,700.0	8.00	24.78	2,683.8	227.5	105.1	-95.4	0.00	0.00	0.00
2,800.0	8.00	24.78	2,782.8	240.2	110.9	-100.7	0.00	0.00	0.00
2,900.0	8.00	24.78	2,881.8	252.8	116.7	-106.0	0.00	0.00	0.00
3,000.0	8.00	24.78	2,980.9	265.4	122.6	-111.3	0.00	0.00	0.00
3,100.0	8.00	24.78	3,079.9	278.1	128.4	-116.6	0.00	0.00	0.00
3,200.0	8.00	24.78	3,178.9	290.7	134.2	-121.9	0.00	0.00	0.00
3,300.0	8.00	24.78	3,277.9	303.3	140.1	-127.2	0.00	0.00	0.00
3,326.8	8.00	24.78	3,304.5	306.7	141.6	-128.7	0.00	0.00	0.00
3,400.0	7.27	24.78	3,377.0	315.5	145.7	-132.4	1.00	-1.00	0.00
3,500.0	6.27	24.78	3,476.3	326.2	150.6	-136.9	1.00	-1.00	0.00
3,600.0	5.27	24.78	3,575.8	335.4	154.9	-140.7	1.00	-1.00	0.00
3,615.9	5.11	24.78	3,591.7	336.7	155.5	-141.2	1.00	-1.00	0.00
Cherry Canyon									
3,700.0	4.27	24.78	3,675.5	342.9	158.3	-143.9	1.00	-1.00	0.00
3,800.0	3.27	24.78	3,775.3	348.9	161.1	-146.4	1.00	-1.00	0.00
3,900.0	2.27	24.78	3,875.1	353.3	163.1	-148.2	1.00	-1.00	0.00
4,000.0	1.27	24.78	3,975.1	356.1	164.4	-149.4	1.00	-1.00	0.00
4,100.0	0.27	24.78	4,075.1	357.3	165.0	-149.9	1.00	-1.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Site RB - Section 15/14/13/18 - Slot 3
Company:	Matador Production Company	TVD Reference:	KB @ 3002.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3002.5usft
Site:	RB - Section 15/14/13/18 - Slot 3	North Reference:	Grid
Well:	George #113H	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)
4,126.8	0.00	0.00	4,101.9	357.3	165.0	-149.9	1.00	-1.00	0.00
4,200.0	0.00	0.00	4,175.1	357.3	165.0	-149.9	0.00	0.00	0.00
4,300.0	0.00	0.00	4,275.1	357.3	165.0	-149.9	0.00	0.00	0.00
4,326.8	0.00	0.00	4,301.9	357.3	165.0	-149.9	0.00	0.00	0.00
Start Drop -1.00									
4,400.0	0.00	0.00	4,375.1	357.3	165.0	-149.9	0.00	0.00	0.00
4,500.0	0.00	0.00	4,475.1	357.3	165.0	-149.9	0.00	0.00	0.00
4,600.0	0.00	0.00	4,575.1	357.3	165.0	-149.9	0.00	0.00	0.00
4,700.0	0.00	0.00	4,675.1	357.3	165.0	-149.9	0.00	0.00	0.00
4,800.0	0.00	0.00	4,775.1	357.3	165.0	-149.9	0.00	0.00	0.00
4,819.8	0.00	0.00	4,794.8	357.3	165.0	-149.9	0.00	0.00	0.00
Brushy Canyon									
4,900.0	0.00	0.00	4,875.1	357.3	165.0	-149.9	0.00	0.00	0.00
5,000.0	0.00	0.00	4,975.1	357.3	165.0	-149.9	0.00	0.00	0.00
5,100.0	0.00	0.00	5,075.1	357.3	165.0	-149.9	0.00	0.00	0.00
5,126.8	0.00	0.00	5,101.9	357.3	165.0	-149.9	0.00	0.00	0.00
Start 1651.1 hold at 5126.8 MD									
5,200.0	0.00	0.00	5,175.1	357.3	165.0	-149.9	0.00	0.00	0.00
5,300.0	0.00	0.00	5,275.1	357.3	165.0	-149.9	0.00	0.00	0.00
5,400.0	0.00	0.00	5,375.1	357.3	165.0	-149.9	0.00	0.00	0.00
5,500.0	0.00	0.00	5,475.1	357.3	165.0	-149.9	0.00	0.00	0.00
5,600.0	0.00	0.00	5,575.1	357.3	165.0	-149.9	0.00	0.00	0.00
5,700.0	0.00	0.00	5,675.1	357.3	165.0	-149.9	0.00	0.00	0.00
5,800.0	0.00	0.00	5,775.1	357.3	165.0	-149.9	0.00	0.00	0.00
5,900.0	0.00	0.00	5,875.1	357.3	165.0	-149.9	0.00	0.00	0.00
6,000.0	0.00	0.00	5,975.1	357.3	165.0	-149.9	0.00	0.00	0.00
6,100.0	0.00	0.00	6,075.1	357.3	165.0	-149.9	0.00	0.00	0.00
6,200.0	0.00	0.00	6,175.1	357.3	165.0	-149.9	0.00	0.00	0.00
6,300.0	0.00	0.00	6,275.1	357.3	165.0	-149.9	0.00	0.00	0.00
6,383.8	0.00	0.00	6,358.8	357.3	165.0	-149.9	0.00	0.00	0.00
Bone Spring Lime									
6,400.0	0.00	0.00	6,375.1	357.3	165.0	-149.9	0.00	0.00	0.00
6,500.0	0.00	0.00	6,475.1	357.3	165.0	-149.9	0.00	0.00	0.00
6,600.0	0.00	0.00	6,575.1	357.3	165.0	-149.9	0.00	0.00	0.00
6,700.0	0.00	0.00	6,675.1	357.3	165.0	-149.9	0.00	0.00	0.00
6,777.9	0.00	0.00	6,753.0	357.3	165.0	-149.9	0.00	0.00	0.00
Start Build 10.00 - VP - George #113H									
6,800.0	2.21	270.44	6,775.1	357.3	164.6	-149.5	10.00	10.00	0.00
6,900.0	12.21	270.44	6,874.2	357.4	152.0	-137.0	10.00	10.00	0.00
7,000.0	22.21	270.44	6,969.6	357.7	122.5	-107.4	10.00	10.00	0.00
7,100.0	32.21	270.44	7,058.4	358.0	76.8	-61.8	10.00	10.00	0.00
7,200.0	42.21	270.44	7,137.9	358.5	16.4	-1.4	10.00	10.00	0.00
7,300.0	52.21	270.44	7,205.8	359.0	-56.8	71.8	10.00	10.00	0.00
7,400.0	62.21	270.44	7,259.9	359.7	-140.8	155.7	10.00	10.00	0.00
7,446.3	66.84	270.44	7,279.8	360.0	-182.6	197.5	10.00	10.00	0.00
First Bone Spring Sand									
7,500.0	72.21	270.44	7,298.6	360.4	-232.9	247.7	10.00	10.00	0.00
7,600.0	82.21	270.44	7,320.7	361.1	-330.3	345.1	10.00	10.00	0.00
7,687.9	91.00	270.44	7,325.9	361.8	-417.9	432.7	10.00	10.00	0.00
Start 10067.6 hold at 7687.9 MD									
7,700.0	91.00	270.44	7,325.7	361.9	-430.0	444.8	0.00	0.00	0.00
7,800.0	91.00	270.44	7,323.9	362.7	-530.0	544.7	0.00	0.00	0.00
7,900.0	91.00	270.44	7,322.2	363.5	-630.0	644.6	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Site RB - Section 15/14/13/18 - Slot 3
Company:	Matador Production Company	TVD Reference:	KB @ 3002.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3002.5usft
Site:	RB - Section 15/14/13/18 - Slot 3	North Reference:	Grid
Well:	George #113H	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)	
8,000.0	91.00	270.44	7,320.4	364.2	-730.0	744.6	0.00	0.00	0.00	
8,100.0	91.00	270.44	7,318.7	365.0	-829.9	844.5	0.00	0.00	0.00	
8,200.0	91.00	270.44	7,316.9	365.8	-929.9	944.4	0.00	0.00	0.00	
8,300.0	91.00	270.44	7,315.2	366.5	-1,029.9	1,044.3	0.00	0.00	0.00	
8,400.0	91.00	270.44	7,313.4	367.3	-1,129.9	1,144.3	0.00	0.00	0.00	
8,500.0	91.00	270.44	7,311.7	368.1	-1,229.9	1,244.2	0.00	0.00	0.00	
8,600.0	91.00	270.44	7,310.0	368.8	-1,329.9	1,344.1	0.00	0.00	0.00	
8,700.0	91.00	270.44	7,308.2	369.6	-1,429.8	1,444.0	0.00	0.00	0.00	
8,800.0	91.00	270.44	7,306.5	370.4	-1,529.8	1,544.0	0.00	0.00	0.00	
8,900.0	91.00	270.44	7,304.7	371.1	-1,629.8	1,643.9	0.00	0.00	0.00	
9,000.0	91.00	270.44	7,303.0	371.9	-1,729.8	1,743.8	0.00	0.00	0.00	
9,100.0	91.00	270.44	7,301.2	372.7	-1,829.8	1,843.8	0.00	0.00	0.00	
9,200.0	91.00	270.44	7,299.5	373.4	-1,929.7	1,943.7	0.00	0.00	0.00	
9,300.0	91.00	270.44	7,297.7	374.2	-2,029.7	2,043.6	0.00	0.00	0.00	
9,400.0	91.00	270.44	7,296.0	375.0	-2,129.7	2,143.5	0.00	0.00	0.00	
9,500.0	91.00	270.44	7,294.2	375.7	-2,229.7	2,243.5	0.00	0.00	0.00	
9,600.0	91.00	270.44	7,292.5	376.5	-2,329.7	2,343.4	0.00	0.00	0.00	
9,700.0	91.00	270.44	7,290.8	377.3	-2,429.7	2,443.3	0.00	0.00	0.00	
9,800.0	91.00	270.44	7,289.0	378.0	-2,529.6	2,543.2	0.00	0.00	0.00	
9,900.0	91.00	270.44	7,287.3	378.8	-2,629.6	2,643.2	0.00	0.00	0.00	
10,000.0	91.00	270.44	7,285.5	379.6	-2,729.6	2,743.1	0.00	0.00	0.00	
10,100.0	91.00	270.44	7,283.8	380.3	-2,829.6	2,843.0	0.00	0.00	0.00	
10,200.0	91.00	270.44	7,282.0	381.1	-2,929.6	2,942.9	0.00	0.00	0.00	
10,300.0	91.00	270.44	7,280.3	381.9	-3,029.5	3,042.9	0.00	0.00	0.00	
10,400.0	91.00	270.44	7,278.5	382.6	-3,129.5	3,142.8	0.00	0.00	0.00	
10,500.0	91.00	270.44	7,276.8	383.4	-3,229.5	3,242.7	0.00	0.00	0.00	
10,600.0	91.00	270.44	7,275.0	384.2	-3,329.5	3,342.6	0.00	0.00	0.00	
10,700.0	91.00	270.44	7,273.3	384.9	-3,429.5	3,442.6	0.00	0.00	0.00	
10,800.0	91.00	270.44	7,271.6	385.7	-3,529.5	3,542.5	0.00	0.00	0.00	
10,900.0	91.00	270.44	7,269.8	386.5	-3,629.4	3,642.4	0.00	0.00	0.00	
11,000.0	91.00	270.44	7,268.1	387.3	-3,729.4	3,742.4	0.00	0.00	0.00	
11,100.0	91.00	270.44	7,266.3	388.0	-3,829.4	3,842.3	0.00	0.00	0.00	
11,200.0	91.00	270.44	7,264.6	388.8	-3,929.4	3,942.2	0.00	0.00	0.00	
11,300.0	91.00	270.44	7,262.8	389.6	-4,029.4	4,042.1	0.00	0.00	0.00	
11,400.0	91.00	270.44	7,261.1	390.3	-4,129.3	4,142.1	0.00	0.00	0.00	
11,500.0	91.00	270.44	7,259.3	391.1	-4,229.3	4,242.0	0.00	0.00	0.00	
11,600.0	91.00	270.44	7,257.6	391.9	-4,329.3	4,341.9	0.00	0.00	0.00	
11,700.0	91.00	270.44	7,255.8	392.6	-4,429.3	4,441.8	0.00	0.00	0.00	
11,800.0	91.00	270.44	7,254.1	393.4	-4,529.3	4,541.8	0.00	0.00	0.00	
11,900.0	91.00	270.44	7,252.4	394.2	-4,629.3	4,641.7	0.00	0.00	0.00	
12,000.0	91.00	270.44	7,250.6	394.9	-4,729.2	4,741.6	0.00	0.00	0.00	
12,100.0	91.00	270.44	7,248.9	395.7	-4,829.2	4,841.5	0.00	0.00	0.00	
12,200.0	91.00	270.44	7,247.1	396.5	-4,929.2	4,941.5	0.00	0.00	0.00	
12,300.0	91.00	270.44	7,245.4	397.2	-5,029.2	5,041.4	0.00	0.00	0.00	
12,400.0	91.00	270.44	7,243.6	398.0	-5,129.2	5,141.3	0.00	0.00	0.00	
12,500.0	91.00	270.44	7,241.9	398.8	-5,229.1	5,241.2	0.00	0.00	0.00	
12,600.0	91.00	270.44	7,240.1	399.5	-5,329.1	5,341.2	0.00	0.00	0.00	
12,700.0	91.00	270.44	7,238.4	400.3	-5,429.1	5,441.1	0.00	0.00	0.00	
12,800.0	91.00	270.44	7,236.7	401.1	-5,529.1	5,541.0	0.00	0.00	0.00	
12,900.0	91.00	270.44	7,234.9	401.8	-5,629.1	5,641.0	0.00	0.00	0.00	
13,000.0	91.00	270.44	7,233.2	402.6	-5,729.1	5,740.9	0.00	0.00	0.00	
13,100.0	91.00	270.44	7,231.4	403.4	-5,829.0	5,840.8	0.00	0.00	0.00	
13,200.0	91.00	270.44	7,229.7	404.1	-5,929.0	5,940.7	0.00	0.00	0.00	
13,300.0	91.00	270.44	7,227.9	404.9	-6,029.0	6,040.7	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Site RB - Section 15/14/13/18 - Slot 3
Company:	Matador Production Company	TVD Reference:	KB @ 3002.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3002.5usft
Site:	RB - Section 15/14/13/18 - Slot 3	North Reference:	Grid
Well:	George #113H	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)	
13,400.0	91.00	270.44	7,226.2	405.7	-6,129.0	6,140.6	0.00	0.00	0.00	
13,500.0	91.00	270.44	7,224.4	406.4	-6,229.0	6,240.5	0.00	0.00	0.00	
13,600.0	91.00	270.44	7,222.7	407.2	-6,328.9	6,340.4	0.00	0.00	0.00	
13,700.0	91.00	270.44	7,220.9	408.0	-6,428.9	6,440.4	0.00	0.00	0.00	
13,800.0	91.00	270.44	7,219.2	408.8	-6,528.9	6,540.3	0.00	0.00	0.00	
13,900.0	91.00	270.44	7,217.5	409.5	-6,628.9	6,640.2	0.00	0.00	0.00	
14,000.0	91.00	270.44	7,215.7	410.3	-6,728.9	6,740.1	0.00	0.00	0.00	
14,100.0	91.00	270.44	7,214.0	411.1	-6,828.9	6,840.1	0.00	0.00	0.00	
14,200.0	91.00	270.44	7,212.2	411.8	-6,928.8	6,940.0	0.00	0.00	0.00	
14,300.0	91.00	270.44	7,210.5	412.6	-7,028.8	7,039.9	0.00	0.00	0.00	
14,400.0	91.00	270.44	7,208.7	413.4	-7,128.8	7,139.9	0.00	0.00	0.00	
14,500.0	91.00	270.44	7,207.0	414.1	-7,228.8	7,239.8	0.00	0.00	0.00	
14,600.0	91.00	270.44	7,205.2	414.9	-7,328.8	7,339.7	0.00	0.00	0.00	
14,700.0	91.00	270.44	7,203.5	415.7	-7,428.7	7,439.6	0.00	0.00	0.00	
14,800.0	91.00	270.44	7,201.7	416.4	-7,528.7	7,539.6	0.00	0.00	0.00	
14,900.0	91.00	270.44	7,200.0	417.2	-7,628.7	7,639.5	0.00	0.00	0.00	
15,000.0	91.00	270.44	7,198.3	418.0	-7,728.7	7,739.4	0.00	0.00	0.00	
15,100.0	91.00	270.44	7,196.5	418.7	-7,828.7	7,839.3	0.00	0.00	0.00	
15,200.0	91.00	270.44	7,194.8	419.5	-7,928.7	7,939.3	0.00	0.00	0.00	
15,300.0	91.00	270.44	7,193.0	420.3	-8,028.6	8,039.2	0.00	0.00	0.00	
15,400.0	91.00	270.44	7,191.3	421.0	-8,128.6	8,139.1	0.00	0.00	0.00	
15,500.0	91.00	270.44	7,189.5	421.8	-8,228.6	8,239.0	0.00	0.00	0.00	
15,600.0	91.00	270.44	7,187.8	422.6	-8,328.6	8,339.0	0.00	0.00	0.00	
15,700.0	91.00	270.44	7,186.0	423.3	-8,428.6	8,438.9	0.00	0.00	0.00	
15,800.0	91.00	270.44	7,184.3	424.1	-8,528.5	8,538.8	0.00	0.00	0.00	
15,900.0	91.00	270.44	7,182.5	424.9	-8,628.5	8,638.7	0.00	0.00	0.00	
16,000.0	91.00	270.44	7,180.8	425.6	-8,728.5	8,738.7	0.00	0.00	0.00	
16,100.0	91.00	270.44	7,179.1	426.4	-8,828.5	8,838.6	0.00	0.00	0.00	
16,200.0	91.00	270.44	7,177.3	427.2	-8,928.5	8,938.5	0.00	0.00	0.00	
16,300.0	91.00	270.44	7,175.6	427.9	-9,028.5	9,038.5	0.00	0.00	0.00	
16,400.0	91.00	270.44	7,173.8	428.7	-9,128.4	9,138.4	0.00	0.00	0.00	
16,500.0	91.00	270.44	7,172.1	429.5	-9,228.4	9,238.3	0.00	0.00	0.00	
16,600.0	91.00	270.44	7,170.3	430.3	-9,328.4	9,338.2	0.00	0.00	0.00	
16,700.0	91.00	270.44	7,168.6	431.0	-9,428.4	9,438.2	0.00	0.00	0.00	
16,800.0	91.00	270.44	7,166.8	431.8	-9,528.4	9,538.1	0.00	0.00	0.00	
16,900.0	91.00	270.44	7,165.1	432.6	-9,628.3	9,638.0	0.00	0.00	0.00	
17,000.0	91.00	270.44	7,163.4	433.3	-9,728.3	9,737.9	0.00	0.00	0.00	
17,100.0	91.00	270.44	7,161.6	434.1	-9,828.3	9,837.9	0.00	0.00	0.00	
17,200.0	91.00	270.44	7,159.9	434.9	-9,928.3	9,937.8	0.00	0.00	0.00	
17,300.0	91.00	270.44	7,158.1	435.6	-10,028.3	10,037.7	0.00	0.00	0.00	
17,400.0	91.00	270.44	7,156.4	436.4	-10,128.3	10,137.6	0.00	0.00	0.00	
17,500.0	91.00	270.44	7,154.6	437.2	-10,228.2	10,237.6	0.00	0.00	0.00	
17,600.0	91.00	270.44	7,152.9	437.9	-10,328.2	10,337.5	0.00	0.00	0.00	
17,700.0	91.00	270.44	7,151.1	438.7	-10,428.2	10,437.4	0.00	0.00	0.00	
17,755.5	91.00	270.44	7,150.2	439.1	-10,483.7	10,492.9	0.00	0.00	0.00	
TD at 17755.5 - BHL - George #113H										

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Site RB - Section 15/14/13/18 - Slot 3
Company:	Matador Production Company	TVD Reference:	KB @ 3002.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3002.5usft
Site:	RB - Section 15/14/13/18 - Slot 3	North Reference:	Grid
Well:	George #113H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
VP - George #113H	0.00	0.00	6,753.0	357.3	165.0	442,353.18	587,932.89	32° 12' 56.974 N	104° 2' 56.423 W
- plan hits target center									
- Point									
BHL - George #113H	0.00	0.00	7,150.2	439.1	-10,483.7	442,434.92	577,284.17	32° 12' 58.045 N	104° 5' 0.376 W
- plan misses target center by 0.1usft at 17755.5usft MD (7150.2 TVD, 439.1 N, -10483.7 E)									
- Point									

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1.0	-7.0	Bell Canyon		-1.00	270.44
250.0	242.0	Rustler		-1.00	270.44
2,656.6	2,632.8	Lamar		-1.00	270.44
3,615.9	3,583.7	Cherry Canyon		-1.00	270.44
4,819.8	4,786.8	Brushy Canyon		-1.00	270.44
6,383.8	6,350.8	Bone Spring Lime		-1.00	270.44
7,446.3	7,271.8	First Bone Spring Sand		-1.00	270.44

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,500.0	1,495.5	75.9	35.0	Start Build 1.00
2,300.0	2,287.7	177.0	81.7	Start 2026.8 hold at 2300.0 MD
4,326.8	4,301.9	357.3	165.0	Start Drop -1.00
5,126.8	5,101.9	357.3	165.0	Start 1651.1 hold at 5126.8 MD
6,777.9	6,753.0	357.3	165.0	Start Build 10.00
7,687.9	7,325.9	361.8	-417.9	Start 10067.6 hold at 7687.9 MD
17,755.5	7,150.2	439.1	-10,483.7	TD at 17755.5