

District I1625 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 293274

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 30-015-48103
4. Property Code 330294	5. Property Name KEN WILSON 14 15	6. Well No. 112H

7. Surface Location

UL - Lot H	Section 14	Township 24S	Range 28E	Lot Idn H	Feet From 1936	N/S Line N	Feet From 356	E/W Line E	County Eddy
---------------	---------------	-----------------	--------------	--------------	-------------------	---------------	------------------	---------------	----------------

8. Proposed Bottom Hole Location

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

9. Pool Information

MALAGA;BONE SPRING	42780
--------------------	-------

Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 2966
16. Multiple N	17. Proposed Depth 17800	18. Formation Bone Spring	19. Contractor	20. Spud Date 7/1/2021
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	17718	2800	2550

Casing/Cement Program: Additional Comments

--

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 Brian Fancher

Title: Regulatory Manager

Email Address: bfancher@matadorresources.com

Date: 3/22/2021

Phone: 972-371-5242

OIL CONSERVATION DIVISION

Approved By: Kurt Simmons

Title: Petroleum Specialist - A

Approved Date: 3/23/2021

Expiration Date: 3/23/2023

Conditions of Approval Attached

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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 42780	³ Pool Name MALAGA; BONE SPRING
⁴ Property Code	⁵ Property Name KEN WILSON 14 & 15	⁶ Well Number 112H
⁷ OGRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 2966'

¹⁰Surface Location

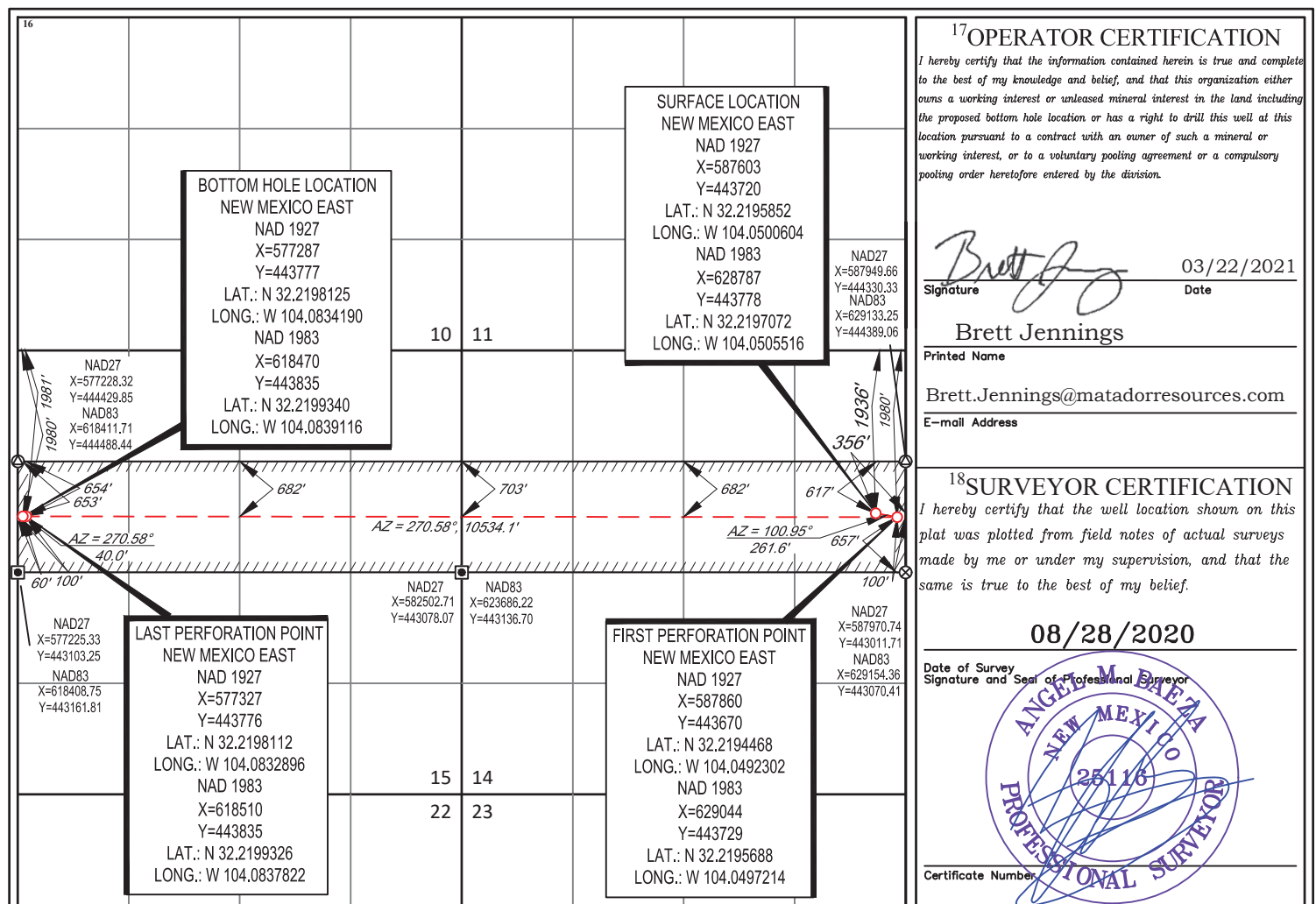
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	14	24-S	28-E	-	1936'	NORTH	356'	EAST	EDDY

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
E	15	24-S	28-E	-	1980'	NORTH	60'	WEST	EDDY

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
--------------------------------------	-------------------------------	----------------------------------	-------------------------

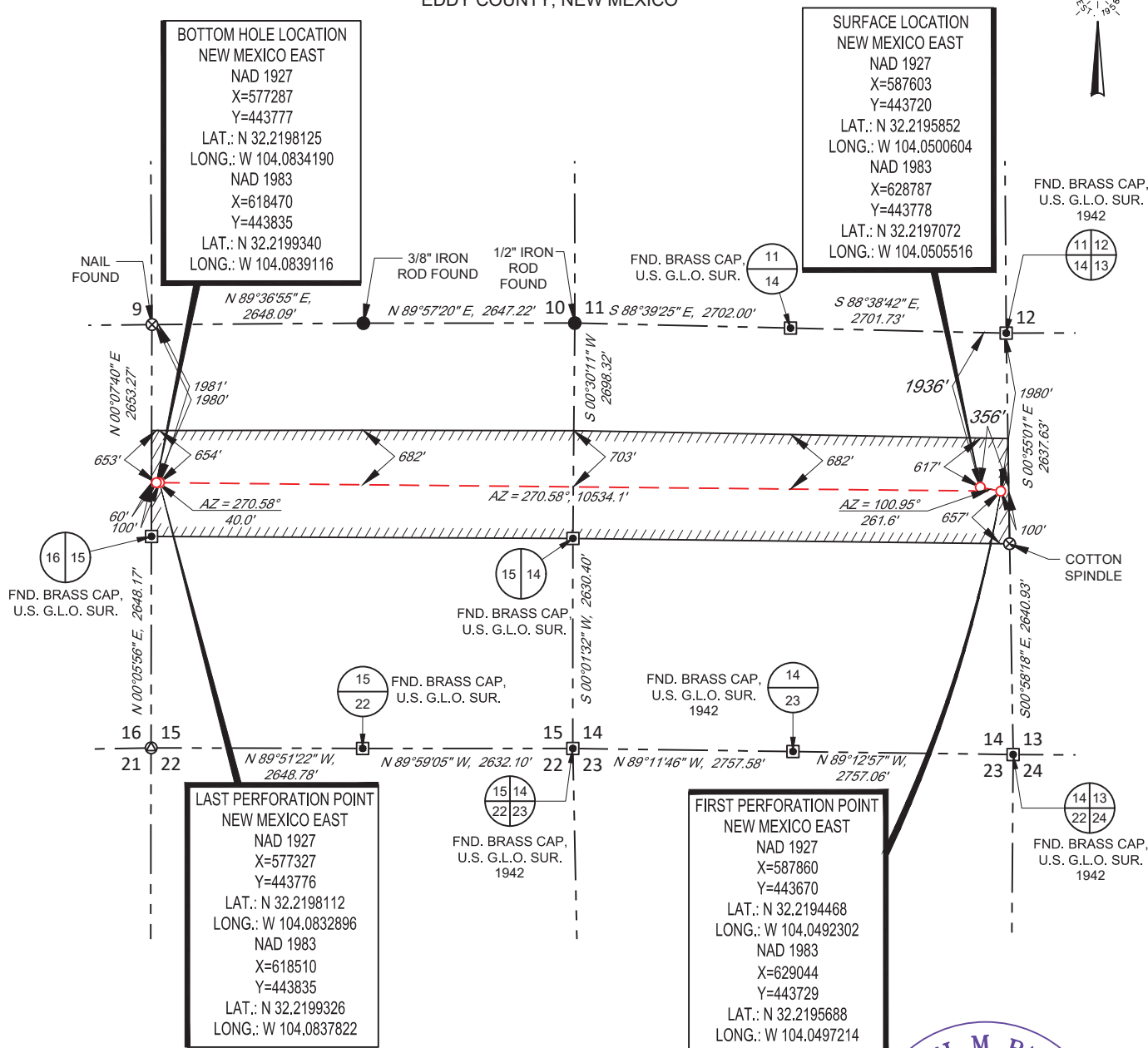
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



SCALE: 1" = 1000'
0' 500' 1000'



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



LEASE NAME & WELL NO.: KEN WILSON 112H
SECTION 14 TWP 24-S RGE 28-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 1936' FNL & 356' FEL

DISTANCE & DIRECTION

FROM INT. OF DUARTE RD. & US-285. GO EAST ON DUARTE RD.
±1.3 MILES, THENCE SOUTH (RIGHT) ON MCDONALD RD. ±0.4
MILE TO A POINT ±470 FEET EAST OF THIS LOCATION.



Angel M. Baeza, P.S. No. 25116
SEPTEMBER 3, 2020

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

AS OF THE DATE OF SURVEY, ALL ABOVE GROUND APPURTENANCES WITHIN 300' OF THE STAKED LOCATION ARE SHOWN HEREON.



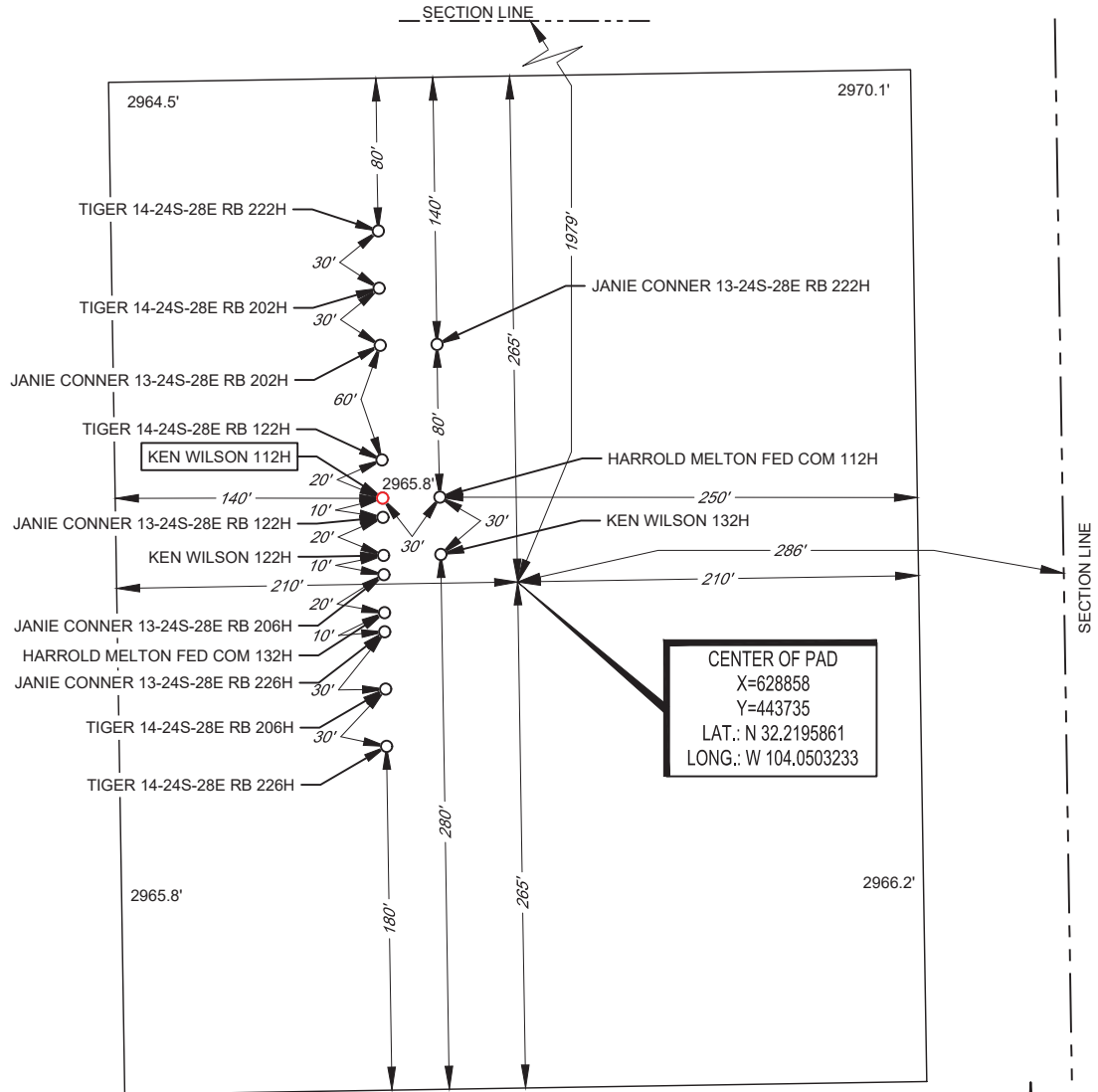
TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 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



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.: KEN WILSON 112H
112H LATITUDE N 32.2197072 112H LONGITUDE W 104.0505516

CENTER OF PAD IS 1979' FNL & 286' FEL



SCALE: 1" = 100'
0' 50' 100'

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"



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

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

GAS CAPTURE PLAN

Date: 3/23/2021

☒ Original

Operator & OGRID No.: [228937] MATADOR PRODUCTION COMPANY

☐ Amended - Reason for
Amendment:

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
KEN WILSON 14 15 #112H	30-015-48103	H-14-24S-28E	1936N 0356E	4000	None	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to LONGWOOD RB PIPELINE, LLC and will be connected to LONGWOOD RB PIPELINE, LLC High Pressure gathering system located in Eddy County, New Mexico. It will require 2000' of pipeline to connect the facility to High Pressure gathering system. MATADOR PRODUCTION COMPANY provides (periodically) to LONGWOOD RB PIPELINE, LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, MATADOR PRODUCTION COMPANY and LONGWOOD RB PIPELINE, LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at LONGWOOD RB PIPELINE, LLC Processing Plant located in Sec. 31, Twn. 23S, Rng. 28E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on LONGWOOD RB PIPELINE, LLC system at that time. Based on current information, it is MATADOR PRODUCTION COMPANY's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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 APD Comments

Permit 293274

PERMIT COMMENTS

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240		API Number: 30-015-48103
		Well: KEN WILSON 14 15 #112H
Created By	Comment	Comment Date

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 APD Conditions

Permit 293274

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	API Number: 30-015-48103
	Well: KEN WILSON 14 15 #112H

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	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days
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
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	Surface casing must be set 25' below top of Rustler Anhydrite or salt in order to seal off protectable water



SURVEY PROGRAM

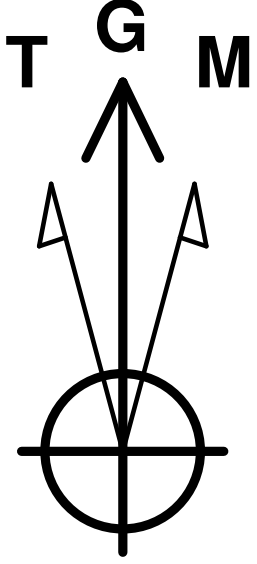
WELL DETAILS: Ken Wilson #112H

Depth From	Depth To	Survey/Plan	Tool				GL @ 2966.0	KB @ 2994.5usft		
0.0	17718.4	State Plan #1 (Wellbore #1)	MWD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
				0.0	0.0	443719.72	587603.34	32° 13' 10.507 N	104° 3' 0.217 W	

Company: Matador Production Company
Well: Ken Wilson #112H
County: Eddy
Wellbore: Wellbore #1
Plan: State Plan #1
Date: 10/12/2020

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: 6.66°

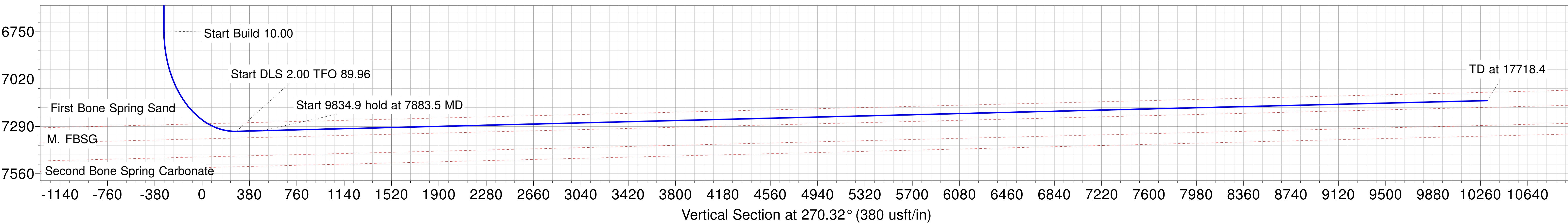
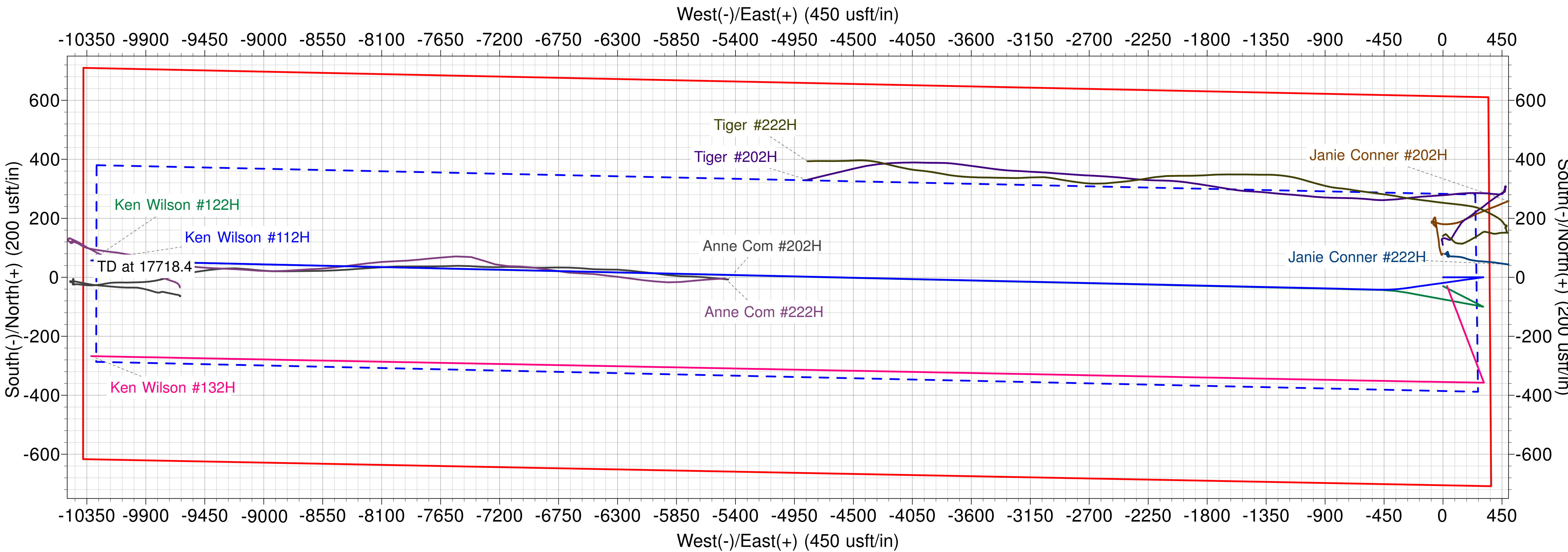
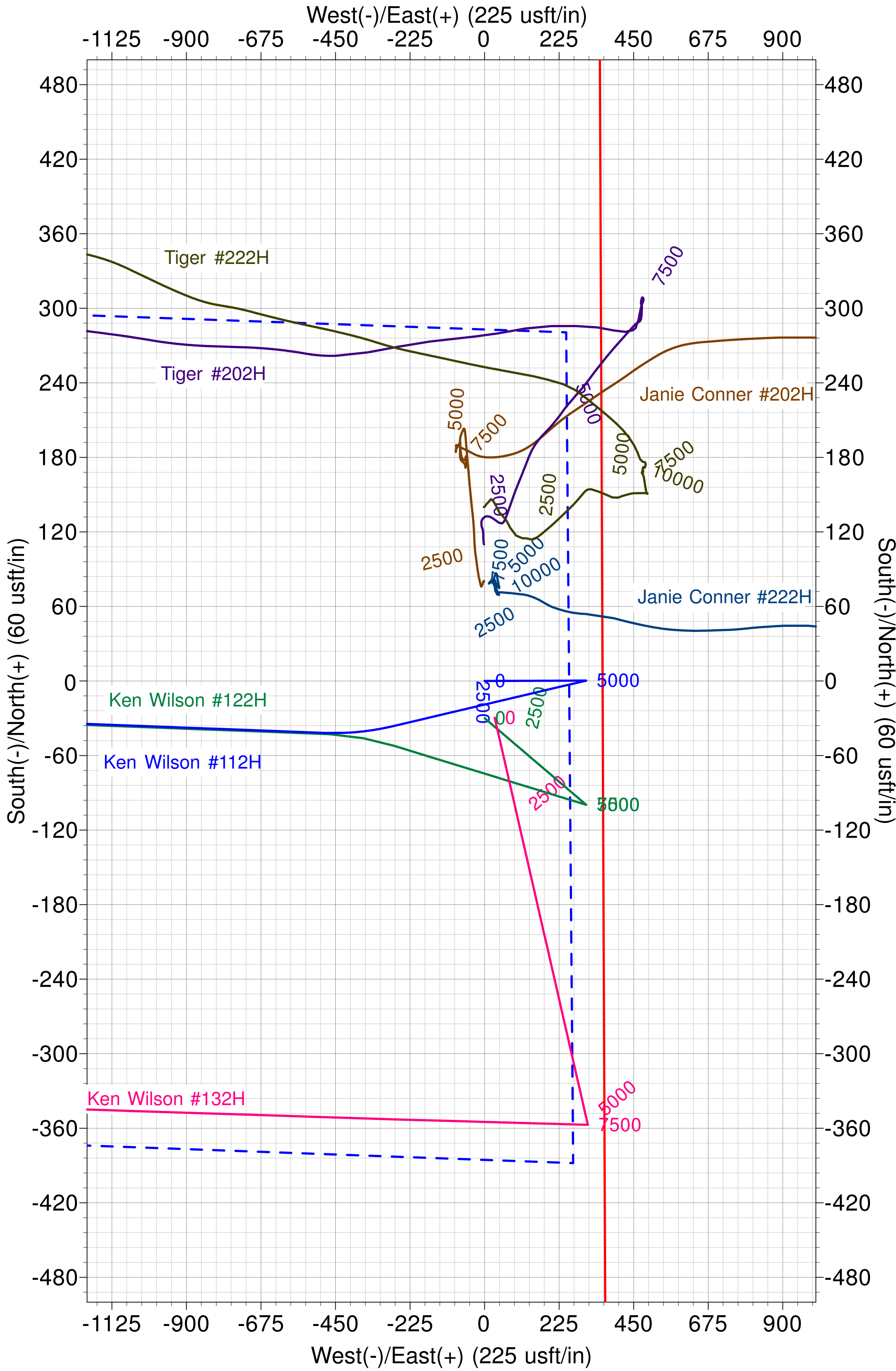
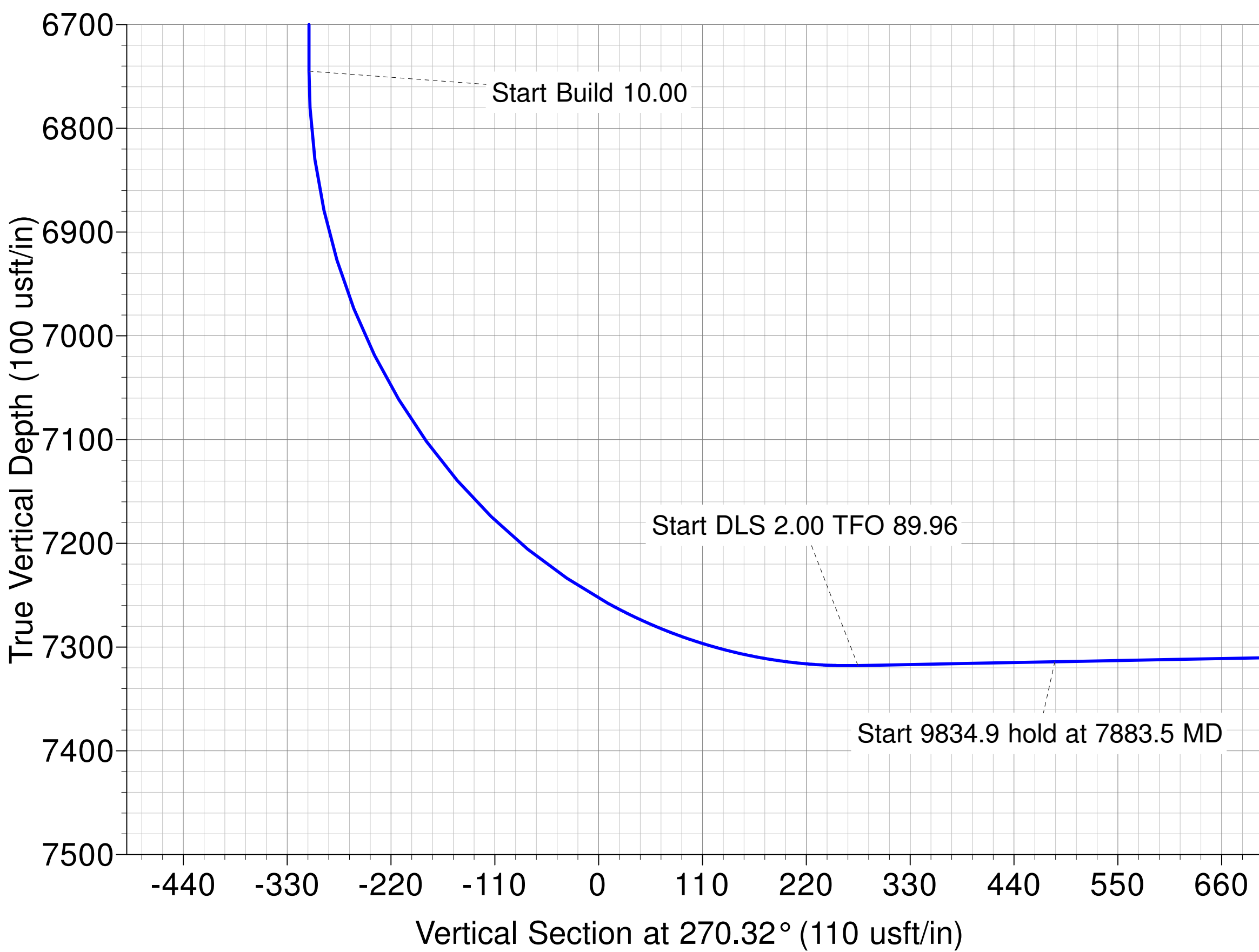
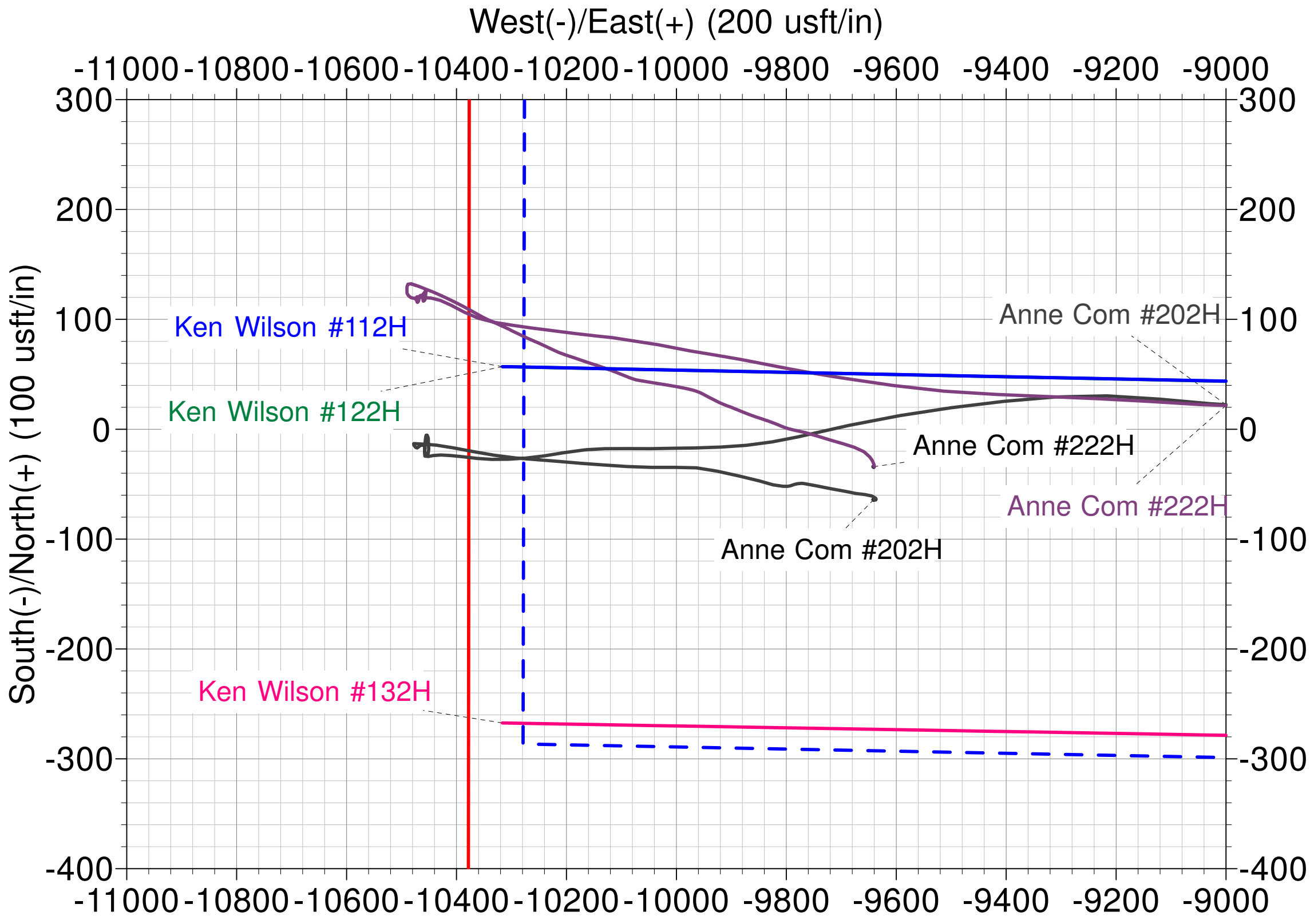
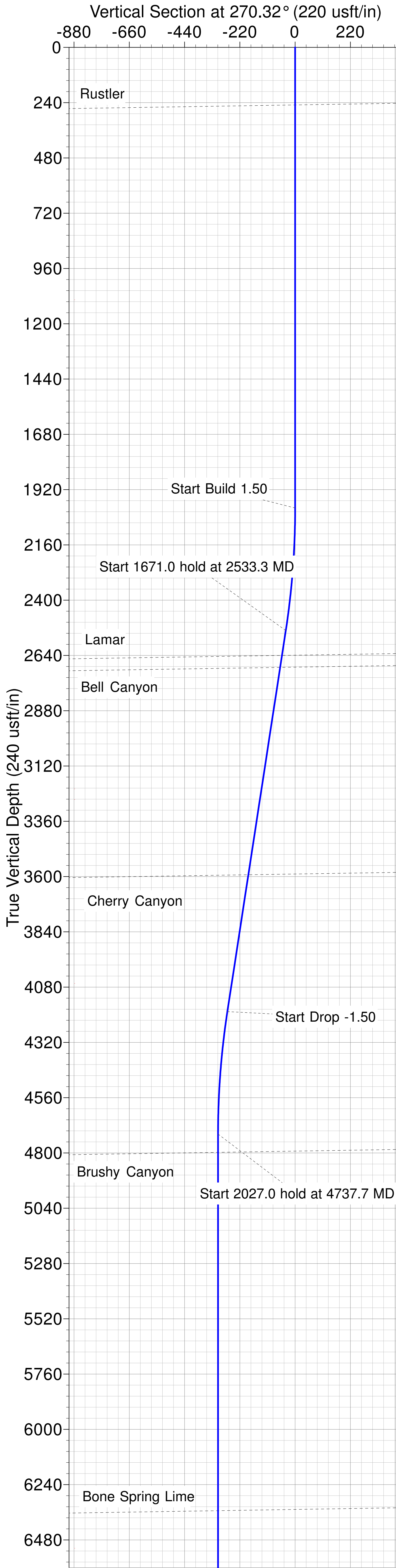
Magnetic Field
Strength: 47547.5snT
Dip Angle: 59.94°
Date: 10/12/2020
Model: IGRF2015

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VP - Ken Wilson #112H	6745.0	0.3	306.9	443720.05	587910.22	32° 13' 10.502 N	104° 2' 56.645 W
BHL - Ken Wilson #112H	7142.6	57.1	-10316.5	443776.81	577286.83	32° 13' 11.325 N	104° 5' 0.308 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	
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	Start Build 1.50
2533.3	8.00	89.94	2531.6	0.0	37.2	1.50	89.94	-37.2	Start 1671.0 hold at 2533.3 MD
4204.4	8.00	89.94	4186.4	0.3	269.7	0.00	0.00	-269.7	Start Drop -1.50
4737.7	0.00	0.00	4718.0	0.3	306.9	1.50	180.00	-306.9	Start 2027.0 hold at 4737.7 MD
6764.7	0.00	0.00	6745.0	0.3	306.9	0.00	0.00	-306.9	Start Build 10.00
7674.7	91.00	266.40	7317.9	-36.3	-274.9	10.00	266.40	274.7	Start DLS 2.00 TFO 89.96
7883.5	91.00	270.58	7314.2	-41.8	-483.5	2.00	89.96	483.3	Start 9834.9 hold at 7883.5 MD
17718.4	91.00	270.58	7142.6	57.1	-10316.5	0.00	0.00	10316.6	TD at 17718.4



Matador Production Company

Rustler Breaks

RB - Section 15/14/13/18 - Slot 2

Ken Wilson #112H

Wellbore #1

Plan: State Plan #1

Standard Planning Report

12 October, 2020

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Ken Wilson #112H
Company:	Matador Production Company	TVD Reference:	KB @ 2994.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 2994.5usft
Site:	RB - Section 15/14/13/18 - Slot 2	North Reference:	Grid
Well:	Ken Wilson #112H	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 2			
Site Position:		Northing:	443,719.72 usft	Latitude:	32° 13' 10.507 N
From:	Lat/Long	Easting:	587,603.35 usft	Longitude:	104° 3' 0.217 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15 °

Well	Ken Wilson #112H					
Well Position	+N-S	0.0 usft	Northing:	443,719.72 usft	Latitude:	32° 13' 10.507 N
	+E-W	0.0 usft	Easting:	587,603.35 usft	Longitude:	104° 3' 0.217 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	2,966.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/12/2020	6.82	59.94	47,547.52935152

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	270.32

Plan Survey Tool Program	Date	10/12/2020		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,718.4	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	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,533.3	8.00	89.94	2,531.6	0.0	37.2	1.50	1.50	0.00	89.94	
4,204.4	8.00	89.94	4,186.4	0.3	269.7	0.00	0.00	0.00	0.00	
4,737.7	0.00	0.00	4,718.0	0.3	306.9	1.50	-1.50	0.00	180.00	
6,764.7	0.00	0.00	6,745.0	0.3	306.9	0.00	0.00	0.00	0.00	VP - Ken Wilson #1
7,674.7	91.00	266.40	7,317.9	-36.3	-274.9	10.00	10.00	0.00	266.40	
7,883.5	91.00	270.58	7,314.2	-41.8	-483.5	2.00	0.00	2.00	89.96	
17,718.4	91.00	270.58	7,142.6	57.1	-10,316.5	0.00	0.00	0.00	0.00	BHL - Ken Wilson #

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Ken Wilson #112H
Company:	Matador Production Company	TVD Reference:	KB @ 2994.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 2994.5usft
Site:	RB - Section 15/14/13/18 - Slot 2	North Reference:	Grid
Well:	Ken Wilson #112H	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
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	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	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1.50									
2,100.0	1.50	89.94	2,100.0	0.0	1.3	-1.3	1.50	1.50	0.00
2,200.0	3.00	89.94	2,199.9	0.0	5.2	-5.2	1.50	1.50	0.00
2,300.0	4.50	89.94	2,299.7	0.0	11.8	-11.8	1.50	1.50	0.00
2,400.0	6.00	89.94	2,399.3	0.0	20.9	-20.9	1.50	1.50	0.00
2,500.0	7.50	89.94	2,498.6	0.0	32.7	-32.7	1.50	1.50	0.00
2,533.3	8.00	89.94	2,531.6	0.0	37.2	-37.2	1.50	1.50	0.00
Start 1671.0 hold at 2533.3 MD									
2,600.0	8.00	89.94	2,597.6	0.1	46.5	-46.5	0.00	0.00	0.00
2,642.7	8.00	89.94	2,639.9	0.1	52.4	-52.4	0.00	0.00	0.00
Lamar									
2,695.4	8.00	89.94	2,692.0	0.1	59.7	-59.7	0.00	0.00	0.00
Bell Canyon									
2,700.0	8.00	89.94	2,696.6	0.1	60.4	-60.4	0.00	0.00	0.00
2,800.0	8.00	89.94	2,795.7	0.1	74.3	-74.3	0.00	0.00	0.00
2,900.0	8.00	89.94	2,894.7	0.1	88.2	-88.2	0.00	0.00	0.00
3,000.0	8.00	89.94	2,993.7	0.1	102.1	-102.1	0.00	0.00	0.00
3,100.0	8.00	89.94	3,092.8	0.1	116.0	-116.0	0.00	0.00	0.00
3,200.0	8.00	89.94	3,191.8	0.1	130.0	-130.0	0.00	0.00	0.00
3,300.0	8.00	89.94	3,290.8	0.2	143.9	-143.9	0.00	0.00	0.00
3,400.0	8.00	89.94	3,389.8	0.2	157.8	-157.8	0.00	0.00	0.00
3,500.0	8.00	89.94	3,488.9	0.2	171.7	-171.7	0.00	0.00	0.00
3,600.0	8.00	89.94	3,587.9	0.2	185.6	-185.6	0.00	0.00	0.00
3,604.4	8.00	89.94	3,592.3	0.2	186.2	-186.2	0.00	0.00	0.00
Cherry Canyon									
3,700.0	8.00	89.94	3,686.9	0.2	199.5	-199.5	0.00	0.00	0.00
3,800.0	8.00	89.94	3,785.9	0.2	213.5	-213.5	0.00	0.00	0.00
3,900.0	8.00	89.94	3,885.0	0.2	227.4	-227.4	0.00	0.00	0.00
4,000.0	8.00	89.94	3,984.0	0.3	241.3	-241.3	0.00	0.00	0.00
4,100.0	8.00	89.94	4,083.0	0.3	255.2	-255.2	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Ken Wilson #112H
Company:	Matador Production Company	TVD Reference:	KB @ 2994.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 2994.5usft
Site:	RB - Section 15/14/13/18 - Slot 2	North Reference:	Grid
Well:	Ken Wilson #112H	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)
4,200.0	8.00	89.94	4,182.0	0.3	269.1	-269.1	0.00	0.00	0.00
4,204.4	8.00	89.94	4,186.4	0.3	269.7	-269.7	0.00	0.00	0.00
Start Drop -1.50									
4,300.0	6.57	89.94	4,281.2	0.3	281.9	-281.9	1.50	-1.50	0.00
4,400.0	5.07	89.94	4,380.7	0.3	292.0	-292.0	1.50	-1.50	0.00
4,500.0	3.57	89.94	4,480.4	0.3	299.5	-299.5	1.50	-1.50	0.00
4,600.0	2.07	89.94	4,580.3	0.3	304.4	-304.4	1.50	-1.50	0.00
4,700.0	0.57	89.94	4,680.3	0.3	306.7	-306.7	1.50	-1.50	0.00
4,737.7	0.00	0.00	4,718.0	0.3	306.9	-306.9	1.50	-1.50	0.00
Start 2027.0 hold at 4737.7 MD									
4,800.0	0.00	0.00	4,780.3	0.3	306.9	-306.9	0.00	0.00	0.00
4,817.1	0.00	0.00	4,797.4	0.3	306.9	-306.9	0.00	0.00	0.00
Brushy Canyon									
4,900.0	0.00	0.00	4,880.3	0.3	306.9	-306.9	0.00	0.00	0.00
5,000.0	0.00	0.00	4,980.3	0.3	306.9	-306.9	0.00	0.00	0.00
5,100.0	0.00	0.00	5,080.3	0.3	306.9	-306.9	0.00	0.00	0.00
5,200.0	0.00	0.00	5,180.3	0.3	306.9	-306.9	0.00	0.00	0.00
5,300.0	0.00	0.00	5,280.3	0.3	306.9	-306.9	0.00	0.00	0.00
5,400.0	0.00	0.00	5,380.3	0.3	306.9	-306.9	0.00	0.00	0.00
5,500.0	0.00	0.00	5,480.3	0.3	306.9	-306.9	0.00	0.00	0.00
5,600.0	0.00	0.00	5,580.3	0.3	306.9	-306.9	0.00	0.00	0.00
5,700.0	0.00	0.00	5,680.3	0.3	306.9	-306.9	0.00	0.00	0.00
5,800.0	0.00	0.00	5,780.3	0.3	306.9	-306.9	0.00	0.00	0.00
5,900.0	0.00	0.00	5,880.3	0.3	306.9	-306.9	0.00	0.00	0.00
6,000.0	0.00	0.00	5,980.3	0.3	306.9	-306.9	0.00	0.00	0.00
6,100.0	0.00	0.00	6,080.3	0.3	306.9	-306.9	0.00	0.00	0.00
6,200.0	0.00	0.00	6,180.3	0.3	306.9	-306.9	0.00	0.00	0.00
6,300.0	0.00	0.00	6,280.3	0.3	306.9	-306.9	0.00	0.00	0.00
6,373.1	0.00	0.00	6,353.4	0.3	306.9	-306.9	0.00	0.00	0.00
Bone Spring Lime									
6,400.0	0.00	0.00	6,380.3	0.3	306.9	-306.9	0.00	0.00	0.00
6,500.0	0.00	0.00	6,480.3	0.3	306.9	-306.9	0.00	0.00	0.00
6,600.0	0.00	0.00	6,580.3	0.3	306.9	-306.9	0.00	0.00	0.00
6,700.0	0.00	0.00	6,680.3	0.3	306.9	-306.9	0.00	0.00	0.00
6,764.7	0.00	0.00	6,745.0	0.3	306.9	-306.9	0.00	0.00	0.00
Start Build 10.00 - VP - Ken Wilson #112H									
6,800.0	3.53	266.40	6,780.3	0.3	305.8	-305.8	10.00	10.00	0.00
6,900.0	13.53	266.40	6,879.0	-0.7	291.0	-291.0	10.00	10.00	0.00
7,000.0	23.53	266.40	6,973.7	-2.7	259.4	-259.4	10.00	10.00	0.00
7,100.0	33.53	266.40	7,061.5	-5.7	211.8	-211.8	10.00	10.00	0.00
7,200.0	43.53	266.40	7,139.6	-9.6	149.7	-149.7	10.00	10.00	0.00
7,300.0	53.53	266.40	7,205.7	-14.3	75.0	-75.1	10.00	10.00	0.00
7,400.0	63.53	266.40	7,257.9	-19.6	-10.0	9.9	10.00	10.00	0.00
7,439.4	67.46	266.40	7,274.2	-21.9	-45.8	45.6	10.00	10.00	0.00
First Bone Spring Sand									
7,500.0	73.53	266.40	7,294.4	-25.4	-102.8	102.6	10.00	10.00	0.00
7,600.0	83.53	266.40	7,314.3	-31.6	-200.5	200.3	10.00	10.00	0.00
7,674.7	91.00	266.40	7,317.9	-36.3	-274.9	274.7	10.00	10.00	0.00
Start DLS 2.00 TFO 89.96									
7,700.0	91.00	266.91	7,317.4	-37.7	-300.1	299.9	2.00	0.00	2.00
7,800.0	91.00	268.91	7,315.7	-41.4	-400.0	399.8	2.00	0.00	2.00
7,883.5	91.00	270.58	7,314.2	-41.8	-483.5	483.3	2.00	0.00	2.00
Start 9834.9 hold at 7883.5 MD									

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Ken Wilson#112H
Company:	Matador Production Company	TVD Reference:	KB @ 2994.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 2994.5usft
Site:	RB - Section 15/14/13/18 - Slot 2	North Reference:	Grid
Well:	Ken Wilson #112H	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)
7,900.0	91.00	270.58	7,313.9	-41.6	-500.0	499.8	0.00	0.00	0.00
8,000.0	91.00	270.58	7,312.2	-40.6	-600.0	599.8	0.00	0.00	0.00
8,100.0	91.00	270.58	7,310.4	-39.6	-700.0	699.7	0.00	0.00	0.00
8,200.0	91.00	270.58	7,308.7	-38.6	-800.0	799.7	0.00	0.00	0.00
8,300.0	91.00	270.58	7,307.0	-37.6	-899.9	899.7	0.00	0.00	0.00
8,400.0	91.00	270.58	7,305.2	-36.6	-999.9	999.7	0.00	0.00	0.00
8,500.0	91.00	270.58	7,303.5	-35.6	-1,099.9	1,099.7	0.00	0.00	0.00
8,600.0	91.00	270.58	7,301.7	-34.6	-1,199.9	1,199.7	0.00	0.00	0.00
8,700.0	91.00	270.58	7,300.0	-33.6	-1,299.9	1,299.7	0.00	0.00	0.00
8,800.0	91.00	270.58	7,298.2	-32.6	-1,399.8	1,399.6	0.00	0.00	0.00
8,900.0	91.00	270.58	7,296.5	-31.6	-1,499.8	1,499.6	0.00	0.00	0.00
9,000.0	91.00	270.58	7,294.7	-30.6	-1,599.8	1,599.6	0.00	0.00	0.00
9,100.0	91.00	270.58	7,293.0	-29.6	-1,699.8	1,699.6	0.00	0.00	0.00
9,200.0	91.00	270.58	7,291.3	-28.5	-1,799.8	1,799.6	0.00	0.00	0.00
9,300.0	91.00	270.58	7,289.5	-27.5	-1,899.7	1,899.6	0.00	0.00	0.00
9,400.0	91.00	270.58	7,287.8	-26.5	-1,999.7	1,999.5	0.00	0.00	0.00
9,500.0	91.00	270.58	7,286.0	-25.5	-2,099.7	2,099.5	0.00	0.00	0.00
9,600.0	91.00	270.58	7,284.3	-24.5	-2,199.7	2,199.5	0.00	0.00	0.00
9,700.0	91.00	270.58	7,282.5	-23.5	-2,299.7	2,299.5	0.00	0.00	0.00
9,800.0	91.00	270.58	7,280.8	-22.5	-2,399.6	2,399.5	0.00	0.00	0.00
9,900.0	91.00	270.58	7,279.0	-21.5	-2,499.6	2,499.5	0.00	0.00	0.00
10,000.0	91.00	270.58	7,277.3	-20.5	-2,599.6	2,599.4	0.00	0.00	0.00
10,100.0	91.00	270.58	7,275.5	-19.5	-2,699.6	2,699.4	0.00	0.00	0.00
10,200.0	91.00	270.58	7,273.8	-18.5	-2,799.6	2,799.4	0.00	0.00	0.00
10,300.0	91.00	270.58	7,272.1	-17.5	-2,899.5	2,899.4	0.00	0.00	0.00
10,400.0	91.00	270.58	7,270.3	-16.5	-2,999.5	2,999.4	0.00	0.00	0.00
10,500.0	91.00	270.58	7,268.6	-15.5	-3,099.5	3,099.4	0.00	0.00	0.00
10,600.0	91.00	270.58	7,266.8	-14.5	-3,199.5	3,199.3	0.00	0.00	0.00
10,700.0	91.00	270.58	7,265.1	-13.5	-3,299.5	3,299.3	0.00	0.00	0.00
10,800.0	91.00	270.58	7,263.3	-12.5	-3,399.4	3,399.3	0.00	0.00	0.00
10,900.0	91.00	270.58	7,261.6	-11.5	-3,499.4	3,499.3	0.00	0.00	0.00
11,000.0	91.00	270.58	7,259.8	-10.4	-3,599.4	3,599.3	0.00	0.00	0.00
11,100.0	91.00	270.58	7,258.1	-9.4	-3,699.4	3,699.3	0.00	0.00	0.00
11,200.0	91.00	270.58	7,256.4	-8.4	-3,799.3	3,799.2	0.00	0.00	0.00
11,300.0	91.00	270.58	7,254.6	-7.4	-3,899.3	3,899.2	0.00	0.00	0.00
11,400.0	91.00	270.58	7,252.9	-6.4	-3,999.3	3,999.2	0.00	0.00	0.00
11,500.0	91.00	270.58	7,251.1	-5.4	-4,099.3	4,099.2	0.00	0.00	0.00
11,600.0	91.00	270.58	7,249.4	-4.4	-4,199.3	4,199.2	0.00	0.00	0.00
11,700.0	91.00	270.58	7,247.6	-3.4	-4,299.2	4,299.2	0.00	0.00	0.00
11,800.0	91.00	270.58	7,245.9	-2.4	-4,399.2	4,399.1	0.00	0.00	0.00
11,900.0	91.00	270.58	7,244.1	-1.4	-4,499.2	4,499.1	0.00	0.00	0.00
12,000.0	91.00	270.58	7,242.4	-0.4	-4,599.2	4,599.1	0.00	0.00	0.00
12,100.0	91.00	270.58	7,240.6	0.6	-4,699.2	4,699.1	0.00	0.00	0.00
12,200.0	91.00	270.58	7,238.9	1.6	-4,799.1	4,799.1	0.00	0.00	0.00
12,300.0	91.00	270.58	7,237.2	2.6	-4,899.1	4,899.1	0.00	0.00	0.00
12,400.0	91.00	270.58	7,235.4	3.6	-4,999.1	4,999.0	0.00	0.00	0.00
12,500.0	91.00	270.58	7,233.7	4.6	-5,099.1	5,099.0	0.00	0.00	0.00
12,600.0	91.00	270.58	7,231.9	5.6	-5,199.1	5,199.0	0.00	0.00	0.00
12,700.0	91.00	270.58	7,230.2	6.6	-5,299.0	5,299.0	0.00	0.00	0.00
12,800.0	91.00	270.58	7,228.4	7.6	-5,399.0	5,399.0	0.00	0.00	0.00
12,900.0	91.00	270.58	7,226.7	8.7	-5,499.0	5,499.0	0.00	0.00	0.00
13,000.0	91.00	270.58	7,224.9	9.7	-5,599.0	5,599.0	0.00	0.00	0.00
13,100.0	91.00	270.58	7,223.2	10.7	-5,699.0	5,698.9	0.00	0.00	0.00
13,200.0	91.00	270.58	7,221.4	11.7	-5,798.9	5,798.9	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Ken Wilson #112H
Company:	Matador Production Company	TVD Reference:	KB @ 2994.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 2994.5usft
Site:	RB - Section 15/14/13/18 - Slot 2	North Reference:	Grid
Well:	Ken Wilson #112H	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)	
13,300.0	91.00	270.58	7,219.7	12.7	-5,898.9	5,898.9	0.00	0.00	0.00	
13,400.0	91.00	270.58	7,218.0	13.7	-5,998.9	5,998.9	0.00	0.00	0.00	
13,500.0	91.00	270.58	7,216.2	14.7	-6,098.9	6,098.9	0.00	0.00	0.00	
13,600.0	91.00	270.58	7,214.5	15.7	-6,198.9	6,198.9	0.00	0.00	0.00	
13,700.0	91.00	270.58	7,212.7	16.7	-6,298.8	6,298.8	0.00	0.00	0.00	
13,800.0	91.00	270.58	7,211.0	17.7	-6,398.8	6,398.8	0.00	0.00	0.00	
13,900.0	91.00	270.58	7,209.2	18.7	-6,498.8	6,498.8	0.00	0.00	0.00	
14,000.0	91.00	270.58	7,207.5	19.7	-6,598.8	6,598.8	0.00	0.00	0.00	
14,100.0	91.00	270.58	7,205.7	20.7	-6,698.8	6,698.8	0.00	0.00	0.00	
14,200.0	91.00	270.58	7,204.0	21.7	-6,798.7	6,798.8	0.00	0.00	0.00	
14,300.0	91.00	270.58	7,202.3	22.7	-6,898.7	6,898.7	0.00	0.00	0.00	
14,400.0	91.00	270.58	7,200.5	23.7	-6,998.7	6,998.7	0.00	0.00	0.00	
14,500.0	91.00	270.58	7,198.8	24.7	-7,098.7	7,098.7	0.00	0.00	0.00	
14,600.0	91.00	270.58	7,197.0	25.7	-7,198.7	7,198.7	0.00	0.00	0.00	
14,700.0	91.00	270.58	7,195.3	26.7	-7,298.6	7,298.7	0.00	0.00	0.00	
14,800.0	91.00	270.58	7,193.5	27.8	-7,398.6	7,398.7	0.00	0.00	0.00	
14,900.0	91.00	270.58	7,191.8	28.8	-7,498.6	7,498.6	0.00	0.00	0.00	
15,000.0	91.00	270.58	7,190.0	29.8	-7,598.6	7,598.6	0.00	0.00	0.00	
15,100.0	91.00	270.58	7,188.3	30.8	-7,698.6	7,698.6	0.00	0.00	0.00	
15,200.0	91.00	270.58	7,186.5	31.8	-7,798.5	7,798.6	0.00	0.00	0.00	
15,300.0	91.00	270.58	7,184.8	32.8	-7,898.5	7,898.6	0.00	0.00	0.00	
15,400.0	91.00	270.58	7,183.1	33.8	-7,998.5	7,998.6	0.00	0.00	0.00	
15,500.0	91.00	270.58	7,181.3	34.8	-8,098.5	8,098.5	0.00	0.00	0.00	
15,600.0	91.00	270.58	7,179.6	35.8	-8,198.5	8,198.5	0.00	0.00	0.00	
15,700.0	91.00	270.58	7,177.8	36.8	-8,298.4	8,298.5	0.00	0.00	0.00	
15,800.0	91.00	270.58	7,176.1	37.8	-8,398.4	8,398.5	0.00	0.00	0.00	
15,900.0	91.00	270.58	7,174.3	38.8	-8,498.4	8,498.5	0.00	0.00	0.00	
16,000.0	91.00	270.58	7,172.6	39.8	-8,598.4	8,598.5	0.00	0.00	0.00	
16,100.0	91.00	270.58	7,170.8	40.8	-8,698.4	8,698.4	0.00	0.00	0.00	
16,200.0	91.00	270.58	7,169.1	41.8	-8,798.3	8,798.4	0.00	0.00	0.00	
16,300.0	91.00	270.58	7,167.4	42.8	-8,898.3	8,898.4	0.00	0.00	0.00	
16,400.0	91.00	270.58	7,165.6	43.8	-8,998.3	8,998.4	0.00	0.00	0.00	
16,500.0	91.00	270.58	7,163.9	44.8	-9,098.3	9,098.4	0.00	0.00	0.00	
16,600.0	91.00	270.58	7,162.1	45.8	-9,198.3	9,198.4	0.00	0.00	0.00	
16,700.0	91.00	270.58	7,160.4	46.9	-9,298.2	9,298.4	0.00	0.00	0.00	
16,800.0	91.00	270.58	7,158.6	47.9	-9,398.2	9,398.3	0.00	0.00	0.00	
16,900.0	91.00	270.58	7,156.9	48.9	-9,498.2	9,498.3	0.00	0.00	0.00	
17,000.0	91.00	270.58	7,155.1	49.9	-9,598.2	9,598.3	0.00	0.00	0.00	
17,100.0	91.00	270.58	7,153.4	50.9	-9,698.2	9,698.3	0.00	0.00	0.00	
17,200.0	91.00	270.58	7,151.6	51.9	-9,798.1	9,798.3	0.00	0.00	0.00	
17,300.0	91.00	270.58	7,149.9	52.9	-9,898.1	9,898.3	0.00	0.00	0.00	
17,400.0	91.00	270.58	7,148.2	53.9	-9,998.1	9,998.2	0.00	0.00	0.00	
17,500.0	91.00	270.58	7,146.4	54.9	-10,098.1	10,098.2	0.00	0.00	0.00	
17,600.0	91.00	270.58	7,144.7	55.9	-10,198.1	10,198.2	0.00	0.00	0.00	
17,700.0	91.00	270.58	7,142.9	56.9	-10,298.0	10,298.2	0.00	0.00	0.00	
17,718.4	91.00	270.58	7,142.6	57.1	-10,316.5	10,316.6	0.00	0.00	0.00	
TD at 17718.4 - BHL - Ken Wilson #112H										

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Ken Wilson #112H
Company:	Matador Production Company	TVD Reference:	KB @ 2994.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 2994.5usft
Site:	RB - Section 15/14/13/18 - Slot 2	North Reference:	Grid
Well:	Ken Wilson #112H	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 - Ken Wilson #112	0.00	0.01	6,745.0	0.3	306.9	443,720.05	587,910.22	32° 13' 10.502 N	104° 2' 56.645 W
- plan hits target center									
- Point									
BHL - Ken Wilson #11	0.00	0.00	7,142.6	57.1	-10,316.5	443,776.81	577,286.84	32° 13' 11.325 N	104° 5' 0.308 W
- plan hits target center									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
250.0	250.0	Rustler		-1.00	270.58	
2,642.7	2,639.9	Lamar		-1.00	270.58	
2,695.4	2,692.0	Bell Canyon		-1.00	270.58	
3,604.4	3,592.3	Cherry Canyon		-1.00	270.58	
4,817.1	4,797.4	Brushy Canyon		-1.00	270.58	
6,373.1	6,353.4	Bone Spring Lime		-1.00	270.58	
7,439.4	7,274.2	First Bone Spring Sand		-1.00	270.58	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
2,000.0	2,000.0	0.0	0.0	Start Build 1.50	
2,533.3	2,531.6	0.0	37.2	Start 1671.0 hold at 2533.3 MD	
4,204.4	4,186.4	0.3	269.7	Start Drop -1.50	
4,737.7	4,718.0	0.3	306.9	Start 2027.0 hold at 4737.7 MD	
6,764.7	6,745.0	0.3	306.9	Start Build 10.00	
7,674.7	7,317.9	-36.3	-274.9	Start DLS 2.00 TFO 89.96	
7,883.5	7,314.2	-41.8	-483.5	Start 9834.9 hold at 7883.5 MD	
17,718.4	7,142.6	57.1	-10,316.4	TD at 17718.4	