

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 323893

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

1. Operator Name and Address Earthstone Operating, LLC 1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380		2. OGRID Number 331165
		3. API Number 30-025-50523
4. Property Code 332607	5. Property Name OUTLAND STATE UNIT	6. Well No. 013H

7. Surface Location

UL - Lot M	Section 11	Township 21S	Range 34E	Lot Idn	Feet From 195	N/S Line S	Feet From 1270	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot L	Section 2	Township 21S	Range 34E	Lot Idn L	Feet From 2500	N/S Line S	Feet From 1190	E/W Line W	County Lea
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9. Pool Information

GRAMA RIDGE;BONE SPRING, NORTH	28434
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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 3713
16. Multiple N	17. Proposed Depth 17991	18. Formation Bone Spring	19. Contractor	20. Spud Date 10/1/2022
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	14.375	10.75	45.5	1815	310	1315
Surf	14.375	10.75	45.5	1815	640	0
Int1	9.875	8.625	32	5475	320	0
Int1	9.875	8.625	32	5475	270	3600
Prod	7.875	5.5	200	17991	1360	9536
Prod	7.875	5.5	20	17991	390	4165

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	2500	2500	CAMERON
Double Ram	5000	5000	CAMERON
Pipe	5000	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.

OIL CONSERVATION DIVISION

Signature:

Printed Name: Electronically filed by Charlotte Stilwell	Approved By: Paul F Kautz
Title: Senior Production Analyst	Title: Geologist
Email Address: charlotte@earthstoneenergy.com	Approved Date: 8/31/2022
Date: 8/23/2022	Expiration Date: 8/31/2024
Phone: 281-771-3065	Conditions of Approval Attached

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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 28434	³ Pool Name GRAMA RIDGE; BONE SPRING, NORTH
⁴ Property Code 322772	⁵ Property Name OUTLAND STATE UNIT	⁶ Well Number 13H
⁷ OGRID No. 331165	⁸ Operator Name EARTHSTONE OPERATING, LLC	⁹ Elevation 3713.5

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	11	21 S	34 E		195	SOUTH	1270	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	2	21 S	34 E		2500	SOUTH	1190	WEST	LEA
¹² Dedicated Acres 240	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.

	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. <i>Jennifer Elrod</i> 08/23/2022 Signature Date JENNIFER ELROD Printed Name JELROD@CHISHOLMENERGY.COM E-mail Address 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 and correct to the best of my belief. JUNE 14, 2022 Date of Survey <i>[Signature]</i> Signature and Seal of Professional Surveyor Certificate Number: 12797 SURVEY NO. 9440
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Intent ☒ As Drilled ☐

API #		
Operator Name: EARTHSTONE OPERATING, LLC	Property Name: OUTLAND STATE UNIT	Well Number 13H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	11	21S	34E		195	SOUTH	1270	WEST	LEA
Latitude					Longitude				NAD
32.4866760					-103.4445115				27

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	11	21S	24E		100	SOUTH	1190	WEST	LEA
Latitude					Longitude				NAD
32.4864140					103.4448680				27

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
L	2	21S	24E		2500	SOUTH	1190	WEST	LEA
Latitude					Longitude				NAD
32.5075186					103.4448722				27

Is this well the defining well for the Horizontal Spacing Unit?

☐ NO

Is this well an infill well?

☐ YES

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 30-025-49759		
Operator Name: EARTHSTONE OPERATING, LLC	Property Name: OUTLAND STATE UNIT	Well Number 11H

KZ 06/29/2018

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

Form APD Conditions

Permit 323893

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: Earthstone Operating, LLC [331165] 1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380	API Number: 30-025-50523
	Well: OUTLAND STATE UNIT #013H

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

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: EARTHSTONE OPERATING, LLC **OGRID:** 331165 **Date:** 01 / 06 / 2022

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: ADDITIONAL WELL ADDED TO LOCATION

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
Outland State Unit 13H		M-11-21S-34E	195 FSL, 1270 FWL	1800	1800	6500
Outland State Unit 11H		M-11-21S-34E	190 FSL, 1240 FWL	1800	1800	6500
Outland State Unit 12H		M-11-21S-34E	190 FSL, 1300 FWL	1800	1800	6500

IV. Central Delivery Point Name: OUTLAND STATE UNIT WEST BATTERY [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
Outland State Unit 13H		12/20/2022	01/15/2023	03/10/2023	04/12/2023	04/15/2023
Outland State Unit 11H		11/01/2022	11/29/2022	03/10/2023	04/12/2023	04/15/2023
Outland State Unit 12H		12/01/2022	12/29/2022	03/10/2023	04/12/2023	04/15/2023

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.

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:	<i>Jennifer Elrod</i>
Printed Name:	JENNIFER ELROD
Title:	SR. REGULATORY ANALYST
E-mail Address:	JELROD@CHISHOLMENERGY.COM
Date:	08/23/2022
Phone:	(817)953-3728
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

**ESTE Natural Gas Management Plan
Items VI-VIII****VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.**

- Separation equipment will be sized to provide adequate separation for anticipated rates.
- Adequate separation relates to retention time for Liquid – Liquid separation and velocity for Gas-Liquid separation.
- Collection systems are appropriately sized to handle facility production rates on all (3) phases.
- Ancillary equipment and metering are selected to be serviced without flow interruptions or the need to release gas from the well.

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

- All flare stacks will be properly sized. The flare stacks will be located at a minimum 100' from the nearest surface hole location on the pad.
- All-natural gas produced during drilling operations will be flared, unless there is an equipment malfunction and/or to avoid risk of an immediate and substantial adverse impact on safety and the environment, at which point the gas will be vented.

Completions/Recompletions Operations

- New wells will not be flowed back until they are connected to a properly sized gathering system.
- The facility will be built/sized for maximum anticipated flowrates and pressures to minimize waste.
- For flowback operations, multiple stages of separation will be used as well as excess VRU and blowers to make sure waste is minimized off the storage tanks and facility.
- During initial flowback, the well stream will be routed to separation equipment.
- At an existing facility, when necessary, post separation natural gas will be flared until it meets pipeline specifications, at which point it will be turned into a collection system.
- At a new facility, post separation natural gas will be vented until storage tanks can safely function, at which point it will be flared until it meets pipeline spec.

Production Operations

- Weekly AVOs will be performed on all facilities.
- All flares will be equipped with auto-ignition systems and continuous pilot operations.
- After a well is stabilized from liquid unloading, the well will be turned back into the collection system.
- All tanks will have sight glasses installed, but no electronic gauging equipment.
- Leaking thief hatches found during AVOs will be cleaned and properly re-sealed.
- There will be no gas re-injection for underground storage, temporary storage, or for enhanced oil recovery; however, gas injection will be used for gas lift applications in which the gas would be circulated through a closed loop system.
- If H₂S is encountered, gas will be treated to pipeline spec to avoid shut-in's and/or flaring.

Performance Standards

- Production equipment will be designed to handle maximum anticipated rates and pressure.

Page 5

- All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
- Weekly AVOs will be performed on all wells and facilities that produce more than 50MCFPD.

Measurement & Estimation

- All volume that is flared or vented that is not measured will be estimated.
- All measurement equipment for flared volumes will conform to API 14.10.
- No meter bypasses will be installed.
- When metering is not practical due to low pressure/low rate, the vented or flared volume will be estimated.

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

- During downhole well maintenance, ESTE will use best management practices to vent as minimally as possible.
- After downhole well maintenance, natural gas will be flared until it reaches pipeline specification.

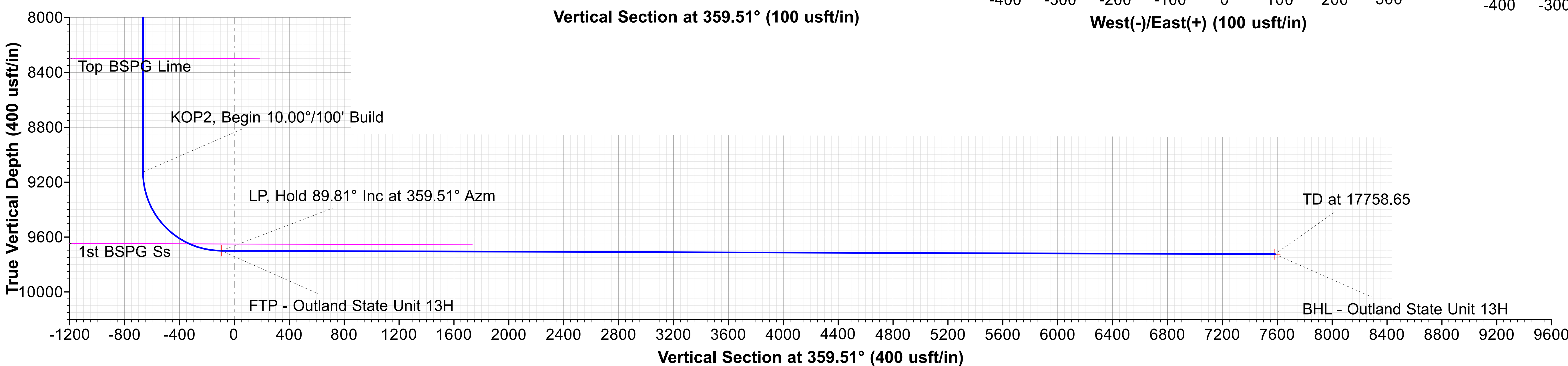
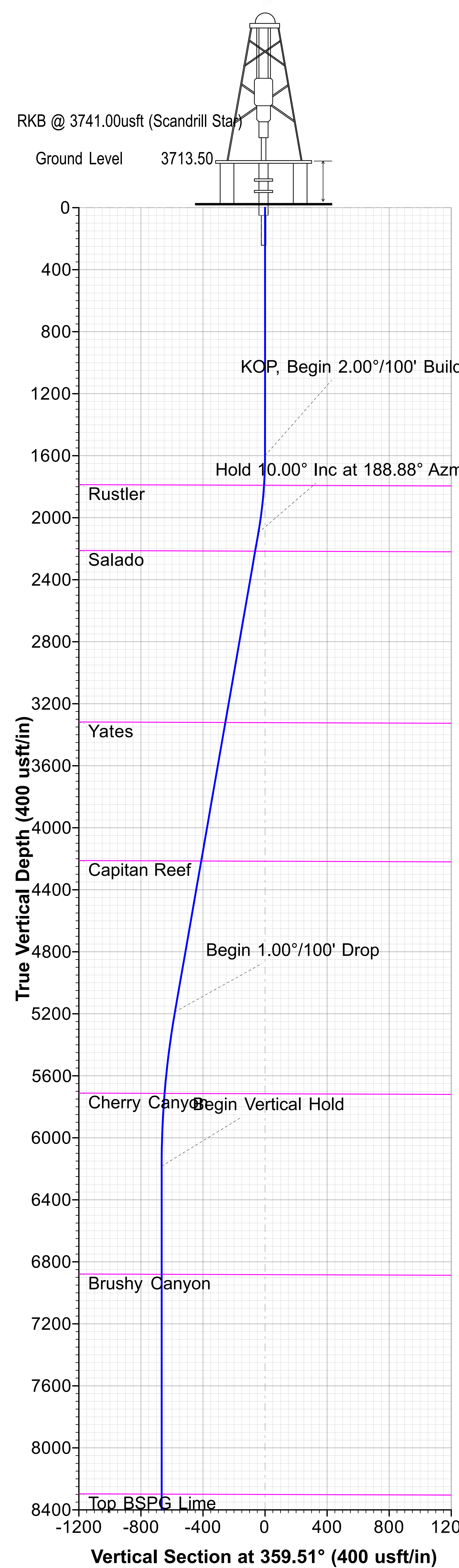
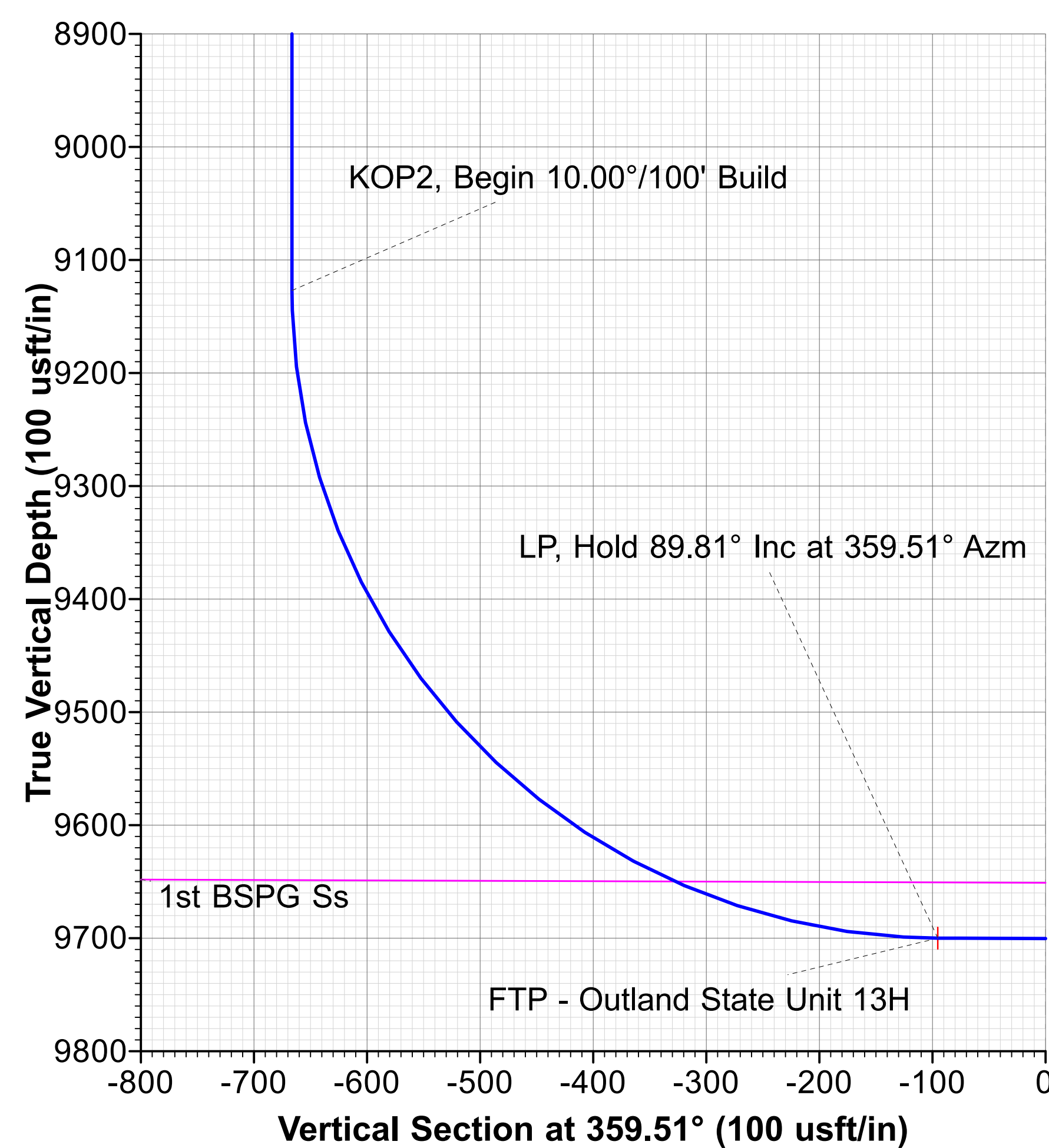
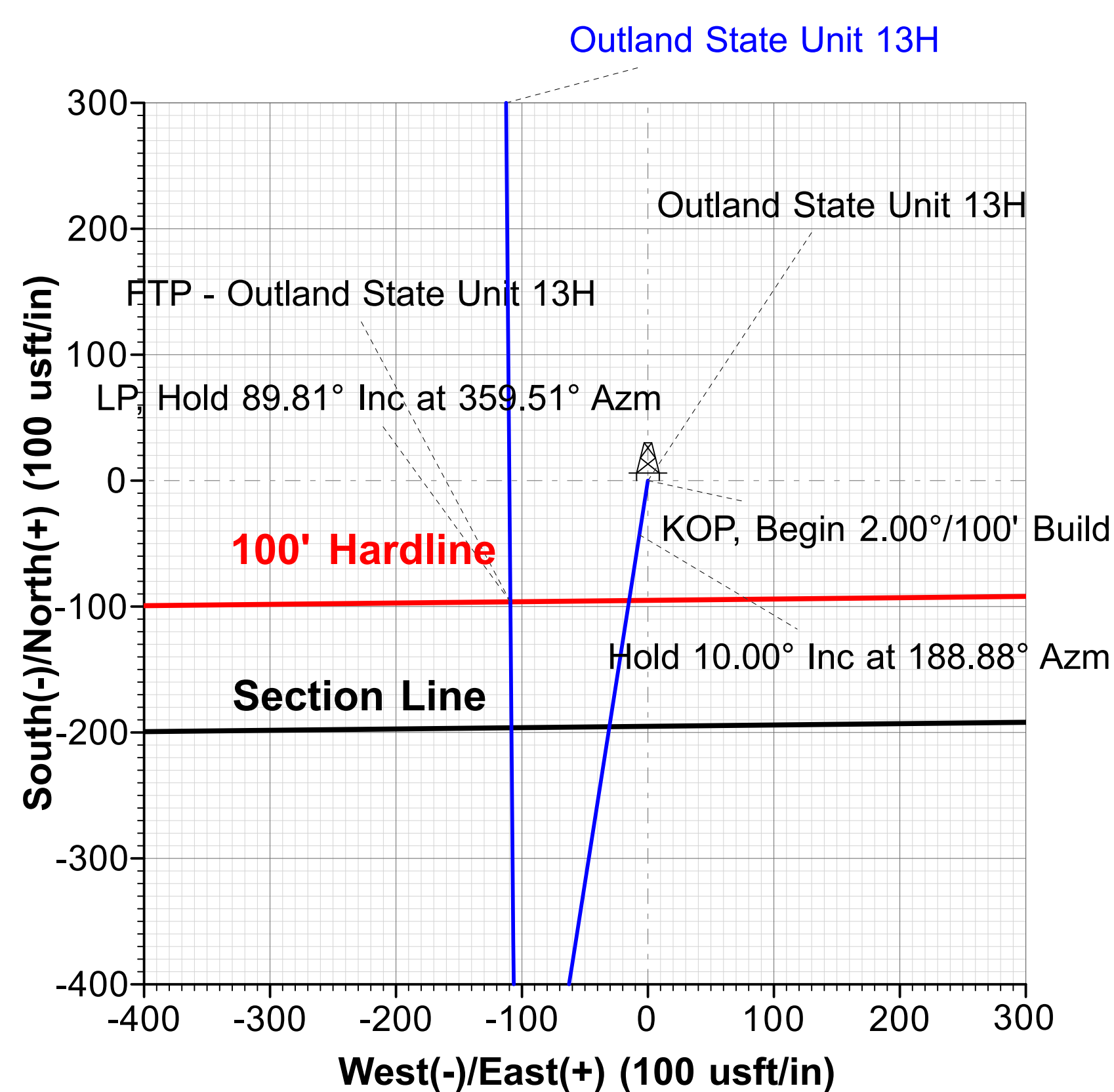
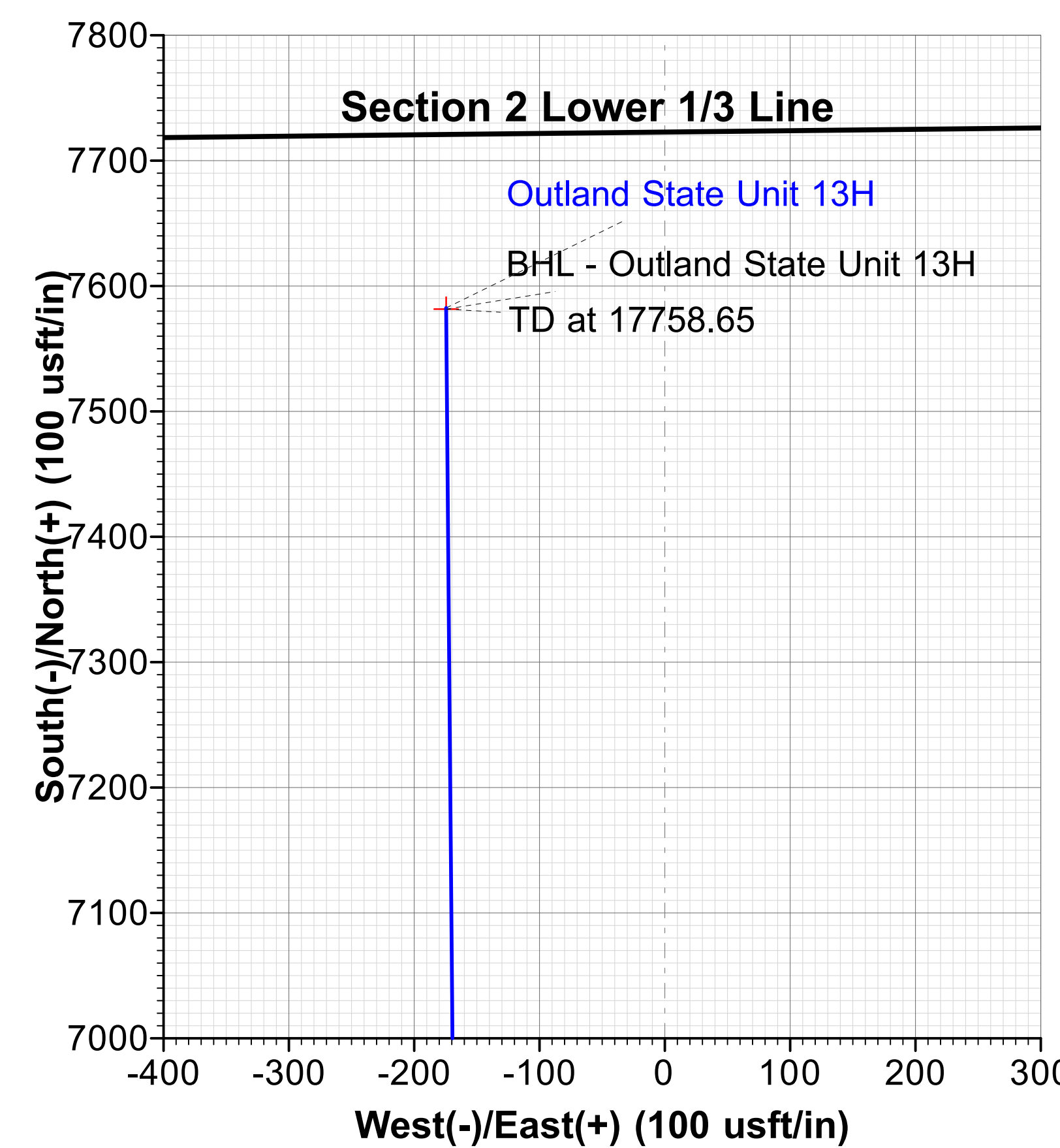
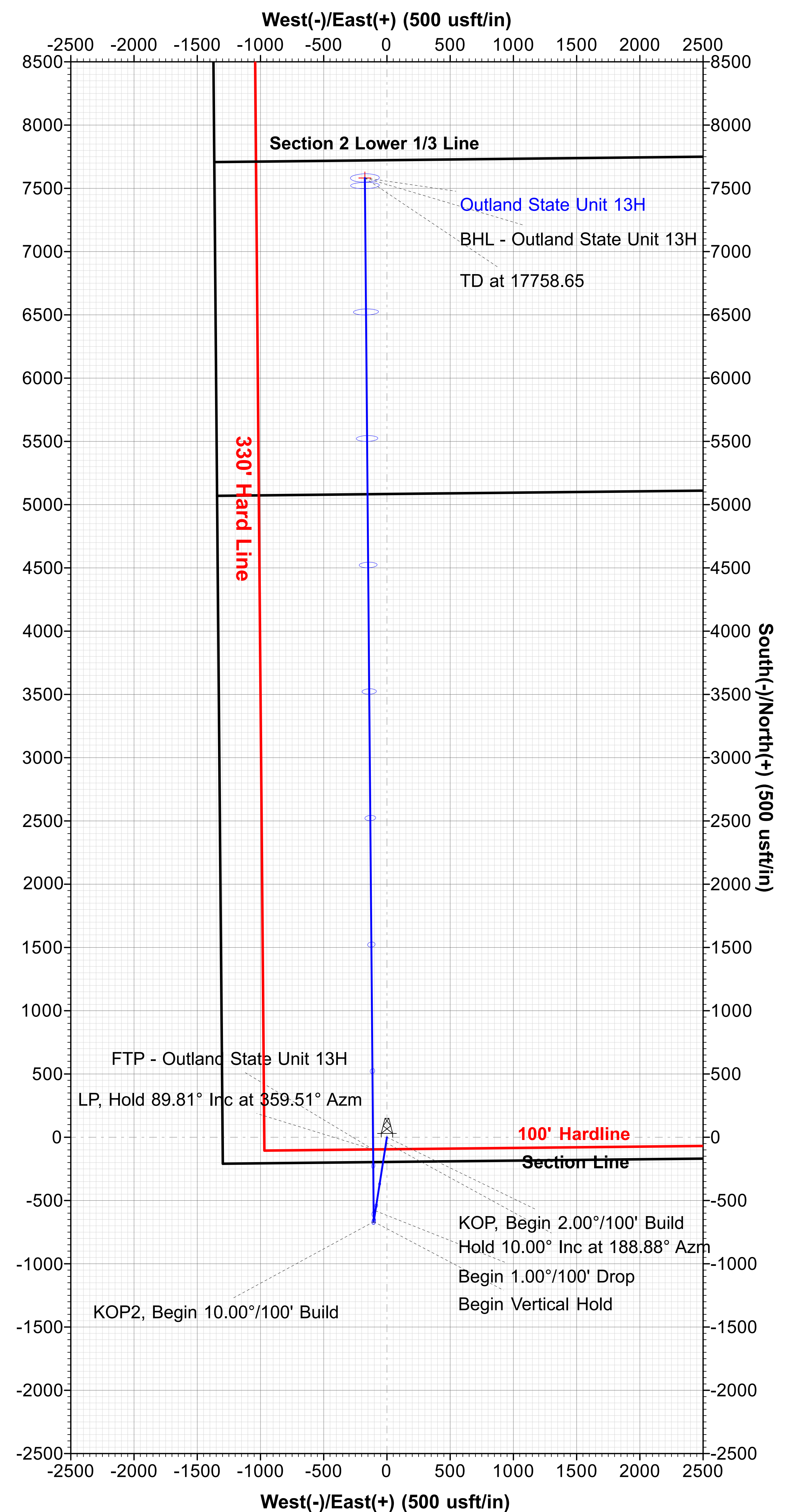
WELL DETAILS						
+N/-S	+E/-W	Northing	Ground Level Easting	Latitude	Longitude	
0.00	0.00	541907.51	3713.50 774069.50	32° 29' 12.033469 N	103° 26' 40.241361 W	

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00		
2	1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.000	0.00		KOP, Begin 2.00°/100' Build
3	2099.87	10.00	188.88	2097.34	-42.98	-6.72	2.00	188.883	-42.92		Hold 10.00° Inc at 188.88° Azm
4	5238.51	10.00	188.88	5188.32	-581.32	-90.85	0.00	0.000	-580.53		Begin 1.00°/100' Drop
5	6238.26	0.00	0.00	6183.00	-667.28	-104.29	1.00	180.000	-666.37		Begin Vertical Hold
6	9182.30	0.00	0.00	9127.05	-667.28	-104.29	0.00	0.000	-666.37		KOP2, Begin 10.00°/100' Build
7	10080.44	89.81	359.51	9700.00	-96.21	-109.14	10.00	359.513	-95.27	FTP - Outland State Unit 13H	LP, Hold 89.81° Inc at 359.51° Azm
8	17758.65	89.81	359.51	9725.00	7581.69	-174.41	0.00	0.000	7582.90	BHL - Outland State Unit 13H	TD at 17758.65

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
FTP - Outland State Unit 13H	9700.00	-96.21	-109.14	541811.30	773960.36	32° 29' 11.090490 N	103° 26' 41.524792 W		
BHL - Outland State Unit 13H	9725.00	7581.69	-174.41	549489.20	773895.09	32° 30' 27.066817 N	103° 26' 41.539973 W		

Map System: US State Plane 1927 (Exact solution)	
Datum: NAD 1927 (NADCON CONUS)	
Ellipsoid: Clarke 1866	
Zone Name: New Mexico East 3001	
Local Origin: Well Outland State Unit 13H, Grid North	
Latitude: 32° 29' 12.033469 N	
Longitude: 103° 26' 40.241361 W	
Grid East: 774069.50	
Grid North: 541907.51	
Scale Factor: 1.000	
Geomagnetic Model: MVHD	
Sample Date: 23-Oct-22	
Magnetic Declination: 6.320°	
Dip Angle from Horizontal: 60.240°	
Magnetic Field Strength: 47753.88795145nT	
To convert a Magnetic Direction to a Grid Direction, Add 5.842°	
To convert a Magnetic Direction to a True Direction, Add 6.320° East	
To convert a True Direction to a Grid Direction, Subtract 0.477°	

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1790.98	1791.12	Rustler
2215.78	2220.14	Salado
3321.11	3342.51	Yates
4214.56	4249.74	Capitan Reef
5713.74	5768.47	Cherry Canyon
6880.67	6935.93	Brushy Canyon
8298.67	8353.93	Top BSPG Lime
9649.86	9840.80	1st BSPG Ss





Earthstone Operating, LLC

Lea County, NM (Nad 27 NME)

Outland State Unit 13H

Outland State Unit 13H

OH

Plan: Plan 1 08-23-22

Standard Planning Report

23 August, 2022





Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Outland State Unit 13H
Company:	Earthstone Operating, LLC	TVD Reference:	RKB @ 3741.00usft (Scandril Star)
Project:	Lea County, NM (Nad 27 NME)	MD Reference:	RKB @ 3741.00usft (Scandril Star)
Site:	Outland State Unit 13H	North Reference:	Grid
Well:	Outland State Unit 13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-23-22		

Project	Lea County, NM (Nad 27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Outland State Unit 13H		
Site Position:		Northing:	541,907.51 usft
From:	Map	Easting:	774,069.50 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 29' 12.033469 N
		Longitude:	103° 26' 40.241361 W
		Grid Convergence:	0.477 °

Well	Outland State Unit 13H		
Well Position	+N/-S	0.00 usft	Northing: 541,907.51 usft
	+E/-W	0.00 usft	Easting: 774,069.50 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Latitude: 32° 29' 12.033469 N
			Longitude: 103° 26' 40.241361 W
			Ground Level: 3,713.50 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	10/23/2022	6.320	60.240	47,753.88795145

Design	Plan 1 08-23-22			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.51

Plan Survey Tool Program	Date	8/23/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,758.65	Plan 1 08-23-22 (OH)	MWD+HRGM
				OWSG MWD + HRGM

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,099.87	10.00	188.88	2,097.34	-42.98	-6.72	2.00	2.00	0.00	188.883	
5,238.51	10.00	188.88	5,188.32	-581.32	-90.85	0.00	0.00	0.00	0.000	
6,238.26	0.00	0.00	6,183.00	-667.28	-104.29	1.00	-1.00	0.00	180.000	
9,182.30	0.00	0.00	9,127.05	-667.28	-104.29	0.00	0.00	0.00	0.000	
10,080.44	89.81	359.51	9,700.00	-96.21	-109.14	10.00	10.00	0.00	359.513	FTP - Outland State
17,758.65	89.81	359.51	9,725.00	7,581.69	-174.41	0.00	0.00	0.00	0.000	BHL - Outland State



Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Outland State Unit 13H
Company:	Earthstone Operating, LLC	TVD Reference:	RKB @ 3741.00usft (Scandril Star)
Project:	Lea County, NM (Nad 27 NME)	MD Reference:	RKB @ 3741.00usft (Scandril Star)
Site:	Outland State Unit 13H	North Reference:	Grid
Well:	Outland State Unit 13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-23-22		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 2.00°/100' Build									
1,700.00	2.00	188.88	1,699.98	-1.72	-0.27	-1.72	2.00	2.00	0.00
1,791.12	3.82	188.88	1,790.98	-6.30	-0.98	-6.29	2.00	2.00	0.00
Rustler									
1,800.00	4.00	188.88	1,799.84	-6.89	-1.08	-6.89	2.00	2.00	0.00
1,900.00	6.00	188.88	1,899.45	-15.51	-2.42	-15.48	2.00	2.00	0.00
2,000.00	8.00	188.88	1,998.70	-27.55	-4.30	-27.51	2.00	2.00	0.00
2,099.87	10.00	188.88	2,097.34	-42.98	-6.72	-42.92	2.00	2.00	0.00
Hold 10.00° Inc at 188.88° Azm									
2,100.00	10.00	188.88	2,097.47	-43.00	-6.72	-42.94	0.00	0.00	0.00
2,200.00	10.00	188.88	2,195.95	-60.15	-9.40	-60.07	0.00	0.00	0.00
2,220.14	10.00	188.88	2,215.78	-63.61	-9.94	-63.52	0.00	0.00	0.00
Salado									
2,300.00	10.00	188.88	2,294.43	-77.30	-12.08	-77.20	0.00	0.00	0.00
2,400.00	10.00	188.88	2,392.91	-94.46	-14.76	-94.33	0.00	0.00	0.00
2,500.00	10.00	188.88	2,491.39	-111.61	-17.44	-111.46	0.00	0.00	0.00
2,600.00	10.00	188.88	2,589.87	-128.76	-20.12	-128.58	0.00	0.00	0.00
2,700.00	10.00	188.88	2,688.35	-145.91	-22.80	-145.71	0.00	0.00	0.00
2,800.00	10.00	188.88	2,786.84	-163.07	-25.48	-162.84	0.00	0.00	0.00
2,900.00	10.00	188.88	2,885.32	-180.22	-28.17	-179.97	0.00	0.00	0.00
3,000.00	10.00	188.88	2,983.80	-197.37	-30.85	-197.10	0.00	0.00	0.00
3,100.00	10.00	188.88	3,082.28	-214.52	-33.53	-214.23	0.00	0.00	0.00
3,200.00	10.00	188.88	3,180.76	-231.67	-36.21	-231.36	0.00	0.00	0.00
3,300.00	10.00	188.88	3,279.24	-248.83	-38.89	-248.49	0.00	0.00	0.00
3,342.51	10.00	188.88	3,321.11	-256.12	-40.03	-255.77	0.00	0.00	0.00
Yates									
3,400.00	10.00	188.88	3,377.73	-265.98	-41.57	-265.61	0.00	0.00	0.00
3,500.00	10.00	188.88	3,476.21	-283.13	-44.25	-282.74	0.00	0.00	0.00
3,600.00	10.00	188.88	3,574.69	-300.28	-46.93	-299.87	0.00	0.00	0.00
3,700.00	10.00	188.88	3,673.17	-317.44	-49.61	-317.00	0.00	0.00	0.00
3,800.00	10.00	188.88	3,771.65	-334.59	-52.29	-334.13	0.00	0.00	0.00
3,900.00	10.00	188.88	3,870.13	-351.74	-54.97	-351.26	0.00	0.00	0.00
4,000.00	10.00	188.88	3,968.62	-368.89	-57.65	-368.39	0.00	0.00	0.00
4,100.00	10.00	188.88	4,067.10	-386.04	-60.33	-385.51	0.00	0.00	0.00
4,200.00	10.00	188.88	4,165.58	-403.20	-63.01	-402.64	0.00	0.00	0.00
4,249.74	10.00	188.88	4,214.56	-411.73	-64.35	-411.16	0.00	0.00	0.00
Capitan Reef									
4,300.00	10.00	188.88	4,264.06	-420.35	-65.69	-419.77	0.00	0.00	0.00
4,400.00	10.00	188.88	4,362.54	-437.50	-68.37	-436.90	0.00	0.00	0.00
4,500.00	10.00	188.88	4,461.02	-454.65	-71.05	-454.03	0.00	0.00	0.00
4,600.00	10.00	188.88	4,559.50	-471.81	-73.74	-471.16	0.00	0.00	0.00
4,700.00	10.00	188.88	4,657.99	-488.96	-76.42	-488.29	0.00	0.00	0.00
4,800.00	10.00	188.88	4,756.47	-506.11	-79.10	-505.41	0.00	0.00	0.00
4,900.00	10.00	188.88	4,854.95	-523.26	-81.78	-522.54	0.00	0.00	0.00
5,000.00	10.00	188.88	4,953.43	-540.41	-84.46	-539.67	0.00	0.00	0.00
5,100.00	10.00	188.88	5,051.91	-557.57	-87.14	-556.80	0.00	0.00	0.00
5,200.00	10.00	188.88	5,150.39	-574.72	-89.82	-573.93	0.00	0.00	0.00
5,238.51	10.00	188.88	5,188.32	-581.32	-90.85	-580.53	0.00	0.00	0.00
Begin 1.00°/100' Drop									
5,300.00	9.38	188.88	5,248.93	-591.55	-92.45	-590.74	1.00	-1.00	0.00
5,400.00	8.38	188.88	5,347.73	-606.81	-94.83	-605.97	1.00	-1.00	0.00



Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Outland State Unit 13H
Company:	Earthstone Operating, LLC	TVD Reference:	RKB @ 3741.00usft (Scandril Star)
Project:	Lea County, NM (Nad 27 NME)	MD Reference:	RKB @ 3741.00usft (Scandril Star)
Site:	Outland State Unit 13H	North Reference:	Grid
Well:	Outland State Unit 13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-23-22		

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)
5,500.00	7.38	188.88	5,446.78	-620.35	-96.95	-619.50	1.00	-1.00	0.00
5,600.00	6.38	188.88	5,546.06	-632.19	-98.80	-631.33	1.00	-1.00	0.00
5,700.00	5.38	188.88	5,645.53	-642.32	-100.38	-641.44	1.00	-1.00	0.00
5,768.47	4.70	188.88	5,713.74	-648.26	-101.31	-647.37	1.00	-1.00	0.00
Cherry Canyon									
5,800.00	4.38	188.88	5,745.17	-650.73	-101.70	-649.84	1.00	-1.00	0.00
5,900.00	3.38	188.88	5,844.94	-657.42	-102.74	-656.52	1.00	-1.00	0.00
6,000.00	2.38	188.88	5,944.81	-662.39	-103.52	-661.48	1.00	-1.00	0.00
6,100.00	1.38	188.88	6,044.76	-665.63	-104.03	-664.72	1.00	-1.00	0.00
6,200.00	0.38	188.88	6,144.74	-667.16	-104.27	-666.24	1.00	-1.00	0.00
6,238.26	0.00	0.00	6,183.00	-667.28	-104.29	-666.37	1.00	-1.00	0.00
Begin Vertical Hold									
6,935.93	0.00	0.00	6,880.67	-667.28	-104.29	-666.37	0.00	0.00	0.00
Brushy Canyon									
8,353.93	0.00	0.00	8,298.67	-667.28	-104.29	-666.37	0.00	0.00	0.00
Top BSPG Lime									
9,182.30	0.00	0.00	9,127.05	-667.28	-104.29	-666.37	0.00	0.00	0.00
KOP2, Begin 10.00°/100' Build									
9,200.00	1.77	359.51	9,144.74	-667.01	-104.29	-666.09	10.00	10.00	0.00
9,300.00	11.77	359.51	9,243.92	-655.24	-104.39	-654.32	10.00	10.00	0.00
9,400.00	21.77	359.51	9,339.54	-626.42	-104.63	-625.50	10.00	10.00	0.00
9,500.00	31.77	359.51	9,428.71	-581.44	-105.02	-580.52	10.00	10.00	0.00
9,600.00	41.77	359.51	9,508.72	-521.66	-105.52	-520.74	10.00	10.00	0.00
9,700.00	51.77	359.51	9,577.12	-448.89	-106.14	-447.97	10.00	10.00	0.00
9,800.00	61.77	359.51	9,631.85	-365.35	-106.85	-364.43	10.00	10.00	0.00
9,840.80	65.85	359.51	9,649.86	-328.75	-107.16	-327.82	10.00	10.00	0.00
1st BSPG Ss									
9,900.00	71.77	359.51	9,671.25	-273.58	-107.63	-272.65	10.00	10.00	0.00
10,000.00	81.77	359.51	9,694.10	-176.36	-108.46	-175.43	10.00	10.00	0.00
10,080.44	89.81	359.51	9,700.00	-96.21	-109.14	-95.27	10.00	10.00	0.00
LP, Hold 89.81° Inc at 359.51° Azm									
10,100.00	89.81	359.51	9,700.06	-76.65	-109.31	-75.71	0.00	0.00	0.00
10,200.00	89.81	359.51	9,700.39	23.35	-110.16	24.29	0.00	0.00	0.00
10,300.00	89.81	359.51	9,700.72	123.34	-111.01	124.29	0.00	0.00	0.00
10,400.00	89.81	359.51	9,701.04	223.34	-111.86	224.29	0.00	0.00	0.00
10,500.00	89.81	359.51	9,701.37	323.34	-112.71	324.29	0.00	0.00	0.00
10,600.00	89.81	359.51	9,701.69	423.33	-113.56	424.29	0.00	0.00	0.00
10,700.00	89.81	359.51	9,702.02	523.33	-114.41	524.29	0.00	0.00	0.00
10,800.00	89.81	359.51	9,702.34	623.32	-115.26	624.29	0.00	0.00	0.00
10,900.00	89.81	359.51	9,702.67	723.32	-116.11	724.29	0.00	0.00	0.00
11,000.00	89.81	359.51	9,702.99	823.32	-116.96	824.29	0.00	0.00	0.00
11,100.00	89.81	359.51	9,703.32	923.31	-117.81	924.29	0.00	0.00	0.00
11,200.00	89.81	359.51	9,703.65	1,023.31	-118.66	1,024.28	0.00	0.00	0.00
11,300.00	89.81	359.51	9,703.97	1,123.30	-119.51	1,124.28	0.00	0.00	0.00
11,400.00	89.81	359.51	9,704.30	1,223.30	-120.36	1,224.28	0.00	0.00	0.00
11,500.00	89.81	359.51	9,704.62	1,323.29	-121.21	1,324.28	0.00	0.00	0.00
11,600.00	89.81	359.51	9,704.95	1,423.29	-122.06	1,424.28	0.00	0.00	0.00
11,700.00	89.81	359.51	9,705.27	1,523.29	-122.91	1,524.28	0.00	0.00	0.00
11,800.00	89.81	359.51	9,705.60	1,623.28	-123.76	1,624.28	0.00	0.00	0.00
11,900.00	89.81	359.51	9,705.92	1,723.28	-124.61	1,724.28	0.00	0.00	0.00
12,000.00	89.81	359.51	9,706.25	1,823.27	-125.46	1,824.28	0.00	0.00	0.00
12,100.00	89.81	359.51	9,706.58	1,923.27	-126.31	1,924.28	0.00	0.00	0.00
12,200.00	89.81	359.51	9,706.90	2,023.27	-127.16	2,024.28	0.00	0.00	0.00



Phoenix Planning Report



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Project:	Lea County, NM (Nad 27 NME)	MD Reference:	RKB @ 3741.00usft (Scandril Star)
Site:	Outland State Unit 13H	North Reference:	Grid
Well:	Outland State Unit 13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-23-22		

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)
12,300.00	89.81	359.51	9,707.23	2,123.26	-128.01	2,124.28	0.00	0.00	0.00
12,400.00	89.81	359.51	9,707.55	2,223.26	-128.86	2,224.28	0.00	0.00	0.00
12,500.00	89.81	359.51	9,707.88	2,323.25	-129.71	2,324.28	0.00	0.00	0.00
12,600.00	89.81	359.51	9,708.20	2,423.25	-130.56	2,424.28	0.00	0.00	0.00
12,700.00	89.81	359.51	9,708.53	2,523.25	-131.41	2,524.28	0.00	0.00	0.00
12,800.00	89.81	359.51	9,708.86	2,623.24	-132.26	2,624.28	0.00	0.00	0.00
12,900.00	89.81	359.51	9,709.18	2,723.24	-133.11	2,724.28	0.00	0.00	0.00
13,000.00	89.81	359.51	9,709.51	2,823.23	-133.96	2,824.28	0.00	0.00	0.00
13,100.00	89.81	359.51	9,709.83	2,923.23	-134.81	2,924.27	0.00	0.00	0.00
13,200.00	89.81	359.51	9,710.16	3,023.22	-135.66	3,024.27	0.00	0.00	0.00
13,300.00	89.81	359.51	9,710.48	3,123.22	-136.51	3,124.27	0.00	0.00	0.00
13,400.00	89.81	359.51	9,710.81	3,223.22	-137.36	3,224.27	0.00	0.00	0.00
13,500.00	89.81	359.51	9,711.13	3,323.21	-138.21	3,324.27	0.00	0.00	0.00
13,600.00	89.81	359.51	9,711.46	3,423.21	-139.06	3,424.27	0.00	0.00	0.00
13,700.00	89.81	359.51	9,711.79	3,523.20	-139.91	3,524.27	0.00	0.00	0.00
13,800.00	89.81	359.51	9,712.11	3,623.20	-140.76	3,624.27	0.00	0.00	0.00
13,900.00	89.81	359.51	9,712.44	3,723.20	-141.61	3,724.27	0.00	0.00	0.00
14,000.00	89.81	359.51	9,712.76	3,823.19	-142.46	3,824.27	0.00	0.00	0.00
14,100.00	89.81	359.51	9,713.09	3,923.19	-143.31	3,924.27	0.00	0.00	0.00
14,200.00	89.81	359.51	9,713.41	4,023.18	-144.16	4,024.27	0.00	0.00	0.00
14,300.00	89.81	359.51	9,713.74	4,123.18	-145.01	4,124.27	0.00	0.00	0.00
14,400.00	89.81	359.51	9,714.06	4,223.17	-145.86	4,224.27	0.00	0.00	0.00
14,500.00	89.81	359.51	9,714.39	4,323.17	-146.71	4,324.27	0.00	0.00	0.00
14,600.00	89.81	359.51	9,714.72	4,423.17	-147.56	4,424.27	0.00	0.00	0.00
14,700.00	89.81	359.51	9,715.04	4,523.16	-148.41	4,524.27	0.00	0.00	0.00
14,800.00	89.81	359.51	9,715.37	4,623.16	-149.26	4,624.27	0.00	0.00	0.00
14,900.00	89.81	359.51	9,715.69	4,723.15	-150.11	4,724.27	0.00	0.00	0.00
15,000.00	89.81	359.51	9,716.02	4,823.15	-150.96	4,824.26	0.00	0.00	0.00
15,100.00	89.81	359.51	9,716.34	4,923.15	-151.81	4,924.26	0.00	0.00	0.00
15,200.00	89.81	359.51	9,716.67	5,023.14	-152.66	5,024.26	0.00	0.00	0.00
15,300.00	89.81	359.51	9,716.99	5,123.14	-153.51	5,124.26	0.00	0.00	0.00
15,400.00	89.81	359.51	9,717.32	5,223.13	-154.36	5,224.26	0.00	0.00	0.00
15,500.00	89.81	359.51	9,717.65	5,323.13	-155.21	5,324.26	0.00	0.00	0.00
15,600.00	89.81	359.51	9,717.97	5,423.13	-156.06	5,424.26	0.00	0.00	0.00
15,700.00	89.81	359.51	9,718.30	5,523.12	-156.91	5,524.26	0.00	0.00	0.00
15,800.00	89.81	359.51	9,718.62	5,623.12	-157.76	5,624.26	0.00	0.00	0.00
15,900.00	89.81	359.51	9,718.95	5,723.11	-158.61	5,724.26	0.00	0.00	0.00
16,000.00	89.81	359.51	9,719.27	5,823.11	-159.46	5,824.26	0.00	0.00	0.00
16,100.00	89.81	359.51	9,719.60	5,923.10	-160.31	5,924.26	0.00	0.00	0.00
16,200.00	89.81	359.51	9,719.93	6,023.10	-161.16	6,024.26	0.00	0.00	0.00
16,300.00	89.81	359.51	9,720.25	6,123.10	-162.01	6,124.26	0.00	0.00	0.00
16,400.00	89.81	359.51	9,720.58	6,223.09	-162.86	6,224.26	0.00	0.00	0.00
16,500.00	89.81	359.51	9,720.90	6,323.09	-163.71	6,324.26	0.00	0.00	0.00
16,600.00	89.81	359.51	9,721.23	6,423.08	-164.56	6,424.26	0.00	0.00	0.00
16,700.00	89.81	359.51	9,721.55	6,523.08	-165.41	6,524.26	0.00	0.00	0.00
16,800.00	89.81	359.51	9,721.88	6,623.08	-166.26	6,624.26	0.00	0.00	0.00
16,900.00	89.81	359.51	9,722.20	6,723.07	-167.11	6,724.25	0.00	0.00	0.00
17,000.00	89.81	359.51	9,722.53	6,823.07	-167.96	6,824.25	0.00	0.00	0.00
17,100.00	89.81	359.51	9,722.86	6,923.06	-168.81	6,924.25	0.00	0.00	0.00
17,200.00	89.81	359.51	9,723.18	7,023.06	-169.66	7,024.25	0.00	0.00	0.00
17,300.00	89.81	359.51	9,723.51	7,123.05	-170.51	7,124.25	0.00	0.00	0.00
17,400.00	89.81	359.51	9,723.83	7,223.05	-171.36	7,224.25	0.00	0.00	0.00
17,500.00	89.81	359.51	9,724.16	7,323.05	-172.21	7,324.25	0.00	0.00	0.00
17,600.00	89.81	359.51	9,724.48	7,423.04	-173.06	7,424.25	0.00	0.00	0.00



Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Outland State Unit 13H
Company:	Earthstone Operating, LLC	TVD Reference:	RKB @ 3741.00usft (Scandril Star)
Project:	Lea County, NM (Nad 27 NME)	MD Reference:	RKB @ 3741.00usft (Scandril Star)
Site:	Outland State Unit 13H	North Reference:	Grid
Well:	Outland State Unit 13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 08-23-22		

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)
17,700.00	89.81	359.51	9,724.81	7,523.04	-173.91	7,524.25	0.00	0.00	0.00
17,758.65	89.81	359.51	9,725.00	7,581.69	-174.41	7,582.90	0.00	0.00	0.00
TD at 17758.65									

Design Targets									
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude Longitude
FTP - Outland State L	- plan hits target center	0.00	0.00	9,700.00	-96.21	-109.14	541,811.30	773,960.36	32° 29' 11.090490 N 3° 26' 41.524792 W
- Point									
BHL - Outland State L	- plan hits target center	0.00	0.00	9,725.00	7,581.69	-174.41	549,489.20	773,895.09	32° 30' 27.066817 N 3° 26' 41.539973 W
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,791.12	1,790.98	Rustler		0.200	359.51	
2,220.14	2,215.78	Salado		0.200	359.51	
3,342.51	3,321.11	Yates		0.200	359.51	
4,249.74	4,214.56	Capitan Reef		0.200	359.51	
5,768.47	5,713.74	Cherry Canyon		0.200	359.51	
6,935.93	6,880.67	Brushy Canyon		0.200	359.51	
8,353.93	8,298.67	Top BSPG Lime		0.200	359.51	
9,840.80	9,649.86	1st BSPG Ss		0.200	359.51	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,600.00	1,600.00	0.00	0.00	KOP, Begin 2.00°/100' Build
2,099.87	2,097.34	-42.98	-6.72	Hold 10.00° Inc at 188.88° Azm
5,238.51	5,188.32	-581.32	-90.85	Begin 1.00°/100' Drop
6,238.26	6,183.00	-667.28	-104.29	Begin Vertical Hold
9,182.30	9,127.05	-667.28	-104.29	KOP2, Begin 10.00°/100' Build
10,080.44	9,700.00	-96.21	-109.14	LP, Hold 89.81° Inc at 359.51° Azm
17,758.65	9,725.00	7,581.69	-174.41	TD at 17758.65

Updated: 08/12/2022

[illegible]