

**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 298289

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

1. Operator Name and Address Tascosa Energy Partners, L.L.C 901 W. Missouri Ave Midland, TX 79701		2. OGRID Number 329748
		3. API Number 30-015-48736
4. Property Code 331220	5. Property Name CATALINA 25 HE STATE	6. Well No. 001H

**7. Surface Location**

UL - Lot E	Section 30	Township 20S	Range 27E	Lot Idn 2	Feet From 1881	N/S Line N	Feet From 201	E/W Line W	County Eddy
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**8. Proposed Bottom Hole Location**

UL - Lot E	Section 25	Township 20S	Range 26E	Lot Idn E	Feet From 1980	N/S Line N	Feet From 100	E/W Line W	County Eddy
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**9. Pool Information**

AVALON; BONE SPRING	96381
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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 3243
16. Multiple N	17. Proposed Depth 13113	18. Formation Bone Spring	19. Contractor	20. Spud Date 9/1/2021
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	48	500	730	0
Int1	11	8.625	32	2500	827	0
Prod	7.875	5.5	20	13113	1595	0

**Casing/Cement Program: Additional Comments**

Production casing is 5.5" CYP110. Tascosa will use cut brine as the fluid system from 2,500'-KOP (7247'), at which point the system will change to a high performance water based mud.

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	5000	CTI
Blind	5000	5000	CTI
Pipe	5000	5000	CTI

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 Kelly M Hardy	Approved By:	Kurt Simmons
Title:	Land Manager	Title:	Petroleum Specialist - A
Email Address:	khardy@tascosaep.com	Approved Date:	8/6/2021
Date:	7/28/2021	Expiration Date:	8/6/2023
Phone:	432-695-6970	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

<sup>1</sup> API Number	<sup>2</sup> Pool Code 96381	<sup>3</sup> Pool Name Avalon, Bone Spring
<sup>4</sup> Property Code	<sup>5</sup> Property Name CATALINA 25HE STATE	<sup>6</sup> Well Number 1H
<sup>7</sup> OGRID No. 329748 –	<sup>8</sup> Operator Name TASCOSA ENERGY PARTNERS, LLC.	<sup>9</sup> Elevation 3243’

<sup>10</sup>Surface Location

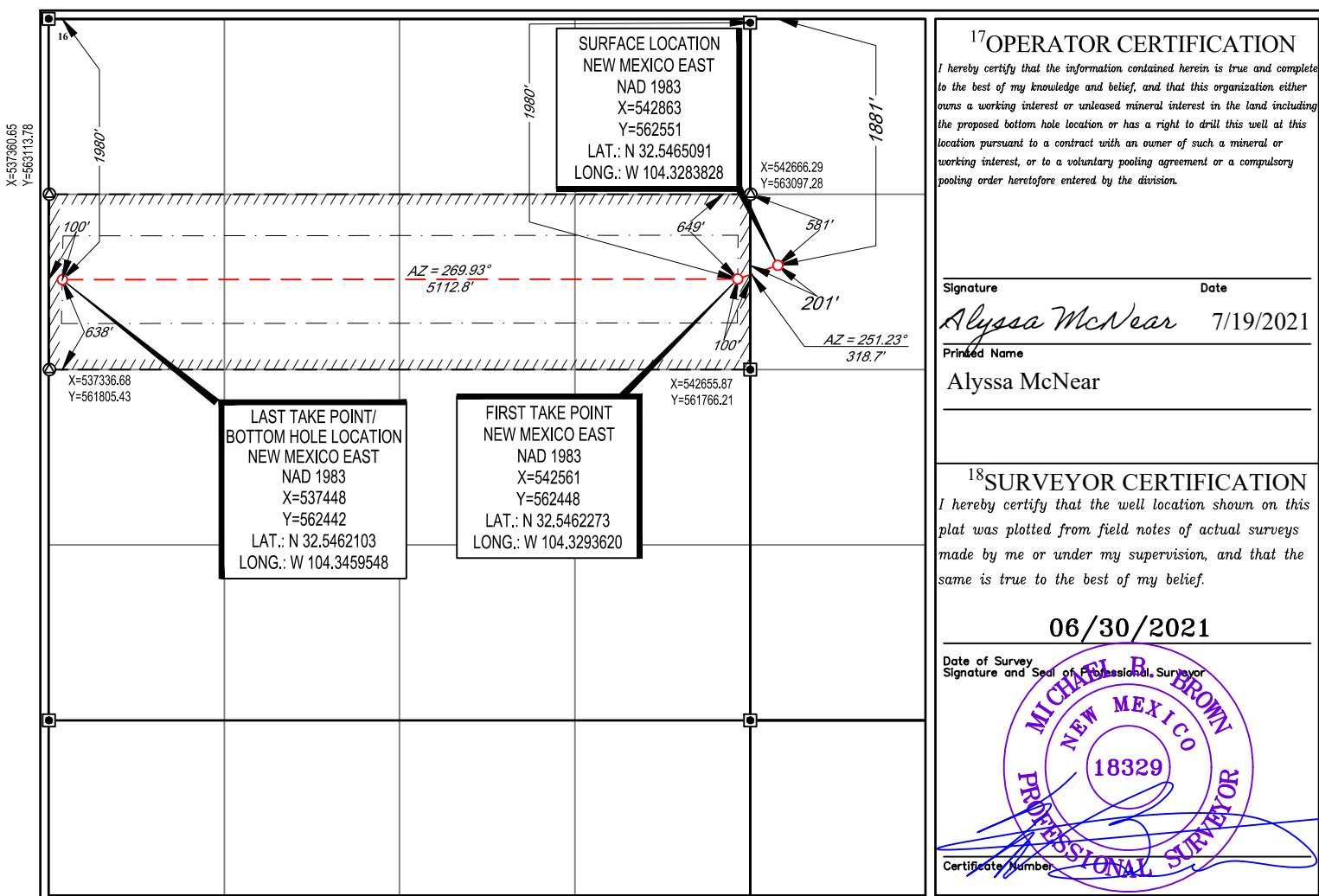
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	30	20-S	27-E	—	1881'	NORTH	201'	WEST	EDDY

<sup>11</sup>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
<b>E</b>	<b>25</b>	<b>20-S</b>	<b>26-E</b>	<b>-</b>	<b>1980'</b>	<b>NORTH</b>	<b>100'</b>	<b>WEST</b>	<b>EDDY</b>

<sup>12</sup> Dedicated Acres <b>160</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.



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

Form APD Comments

Permit 298289

**PERMIT COMMENTS**

Operator Name and Address: Tascosa Energy Partners, L.L.C [329748] 901 W. Missouri Ave Midland, TX 79701	API Number: 30-015-48736
	Well: CATALINA 25 HE STATE #001H

Created By	Comment	Comment Date
a.davanzo	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	7/19/2021
kpickford	This APD has been rejected due to being an incomplete submission. The submission is missing the "Natural Gas Management Plan" which has replaced the "Gas Capture Plan". See OCD Notice "Waste Rule C129 NGMP Final Forms" dated May 21, 2021 for further details. When resubmitting, please fill out the pool information on the C-102 Avalon Bone Spring 96381	7/28/2021

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

Form APD Conditions

Permit 298289

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: Tascosa Energy Partners, L.L.C [329748] 901 W. Missouri Ave Midland, TX 79701	API Number: 30-015-48736
	Well: CATALINA 25 HE STATE #001H

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	Surface casing must be set 25' below top of Rustler Anhydrite or salt in order to seal off protectable water
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



## **Catalina 25 HE State # 1H**

### **Closed Loop Drilling System**

## **Operations and Maintenance Plan**

Closed Loop equipment will be inspected and monitored closely (on a daily basis) by each drilling rig tour and by those hired specifically to operate the equipment. Any leak or release detected will be repaired immediately and the proper NMOCD official will be notified within the 48 hr requirement. A large release will require Tascosa Energy Partners, LLC representatives to contact NMOCD immediately at the Artesia office 575 748 1283 as stated by NMOCD rule 116. Mike Bratcher 575 626 0857 secondary contact.

## **Closure Plan**

During and after drilling operations, liquids (which apply), all drill cuttings and drilling fluids will be hauled and disposed of at the R-360 Disposal (permit number NM-01-0006) located about 30 miles East of Carlsbad, New Mexico. An alternate approved disposal site has been selected "Parabo" NM 01-0003 which is 3 miles East of Eunice. The Second site would only be used in the event of problems with CRI disposal.

Well name:

**Catalina 25 HE State # 1H**Operator: **Tascosa Energy Partners, LLC**String type: **Surface Casing (500)**Location: **Eddy County, New Mexico. 1881 FNL & 201 FWL, Sec 30, T20S, R27E**BHL Planned: **1980 FNL & 330 FWL, Sec 25, T20S, R26E****Design parameters:****Collapse**

Mud weight: 9.00 ppg

Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

DF 1.125

**Burst:**

DF 1.10

**Environment:**

H2S considered? No

Surface temperature: 75.00 °F

BHTemp 79 °F

Temp gradient: 0.80 °F/100ft

Minimum sec length: 500 ft

Minimum Drift: 12.25 in

Cement top: Surface

**Burst**

Max anticipated surface pressure

= 252 psi

Internal gradient: = 0.12 psi/ft

Calculated BHP = 312 psi

**Tension:**

8 Rd STC: 1.80

8 Rd LTC: 1.80

Buttress: 1.60

Premium: 1.50

Body yield: 1.50

Non-directional string.

(J)

(J)

(J)

(J)

(B)

**Re subsequent strings:**

Next setting depth: 2,500 ft

Next mud weight: 10.00 ppg

Next setting BHP: 1,300.00 psi

Fracture mud wt: 11.00 ppg

Safety Factor Injection 1.00 ppg

Fracture depth: 500.00 ft

Injection pressure 312.00 psi

**No backup mud specified.**

Tension is based on buoyed wgt.

Neutral pt: 434.00 ft

**Maximum Lift using 14.8 ppg cmt to surface with 8.5 ppg mud filled csg=**  
**23,014 lbs lift. String wgt = 24,000 lbs. Chain down casing prior to cmt job**  
**for Safety. Strg could be light as 986 lbs**

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)	Internal Capacity (bbls)
1	500	13.375	48.00	H-40	ST&C	500	500	12.559	440.9	78.54
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor	Inside Diameter (in)
1	210	740	3.5	227	1730	7.62	21.6	322	14.9	12.717

Prepared

by: Richard Wright

Phone: (432) 695 6970

FAX: (432) 695 6973

Date: 06/22/21

Midland, Texas

Remarks:

Collapse is based on a vertical depth of 500 ft, a mud weight of 9.0 ppg The casing is considered to be evacuated for collapse purposes.

Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

**Catalina 25 HE State # 1H**Operator: **Tascosa Energy Partners, LLC**String type: **Intermediate Casing (2500 ft)**Location: **Eddy County, New Mexico. 1881 FNL & 201 FWL, Sec 30, T20S, R27E**BHL Planned: **1980 FNL & 330 FWL, Sec 25, T20S, R26E****Design parameters:****Collapse**

Mud weight: 9.50 ppg

Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

DF 1.125

**Burst:**

DF 1.15

**Environment:**

H2S considered? No  
 Surface temperature: 75.00 °F  
 BH Temp 99 °F  
 Temp Gradient 0.80 °F/100ft  
 Minimum Sec Length 2500 ft  
 Minimum Drift: 8.75 in  
 Cement top: Surface

**Burst**

Max anticipated surface

pressure: 1,585.00 psi

Internal gradient: 0.12 psi/ft

Calculated BHP 1,885.00 psi

No backup mud specified.

**Tension:**

8 Rd STC: 1.80 (J)  
 8 Rd LTC: 1.80 (J)  
 Buttress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.50 (B)

Non-directional string.

**Re subsequent strings:**

Tension is based on buoyed wgt.

Neutral pt: ± 2147 ft

Next setting depth: 12,888 ft MD  
 Next setting depth: 7,715 ft TVD  
 Next mud weight: 9.5 ppg  
 Next setting BHP: 3,720 psi  
 Fracture mud wt: 13.5 ppg  
 Safety Factor-Injection 1 ppg  
 Fracture depth: 2500 ft  
 Injection pressure 1,885 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	ID Diameter (in)	Internal Capacity (bbls)
1	2500	8.625	32	J-55	LT&C	2500	2500	7.796	7.921	152.36

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1235	2530	2.04	1585	3930	2.48	80	417	5.2J

Prepared  
by: Richard Wright

Phone: (432) 695 6970  
FAX: (432) 695 6973

Date: 06/22/21  
Midland, Texas

**Remarks:**

Collapse is based on a vertical depth of 3,000 ft, a mud weight of 9.5 ppg. The casing is considered to be evacuated for collapse purposes.

Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

**Catalina 25 HE State # 1H**Operator: **Tascosa Energy Partners, LLC**String type: **Production Casing (± 13,113 MD) "FRAC"**Location: **Eddy County, New Mexico. 1881 FNL & 201 FWL, Sec 30, T20S, R27E**BHL Planned: **1980 FNL & 330 FWL, Sec 25, T20S, R26E****Design parameters:****Collapse**

Mud weight:

Design is based on evacuated pipe.

9.50 ppg

**Minimum design factors:****Collapse:**

DF 1.125

**Burst:**

DF 1.125

**Environment:**

H2S considered?

No

Surface temperature:

75.00 °F

Bottom hole temp:

138.6 °F

Temperature gradient:

0.80 °F/100ft

Minimum section lgth:

2,000 ft

Minimum Drift:

4.653 in

Cement top:

Surface ft

**Burst**

Max anticipated surface

**pressure FRAC @ RATE: 10,000.00 psi**

Internal gradient: 0.434 psi/ft

**Calculated BHP at rate 13,348.00 psi**

backup fluid specified. 0.434 psi/ft

Net Injection Pressure Surface 10,000.00 psi

Net Injection Pressure TVD 5,817.00 psi

Annular surface PSI 0 psi

FG projected = 13.50 ppg

1 ppg SF 14.5 ppg

**Tension:**

8 Rd STC: 1.80 (J)

8 Rd LTC: 1.80 (J)

Buttress: 1.60 (J)

Premium: 1.50 (J)

Body yield: 1.50 (B)

Directional Info - Build &amp; Hold

KOP ± 7,247 ft

Departure at shoe: 5,100 ft

Maximum dogleg: 12 °/100ft

Inclination at shoe: 90.88 °

Tension is based on buoyed weight. (.85474 factor)

Neutral pt: **± 6706 ft assumes no friction (mid pt of curve 7,650'nd)**

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	ID Diameter (in)	Internal Capacity (bbls)
1	13,113	5.5	20	CYP-110	GBCD BTC	7,715	13,113	4.653	4.778	284.9
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor	
1	4,012	12200	3.04	10000	12360	1.236	257.46	667	2.59 J	

Prepared

by: Richard Wright

Phone: (432) 695 6970

FAX: (432) 695 6973

Date: 06/22/21

Midland, Texas

**Remarks:**

Collapse is based on a vertical depth of 7,715 ft, a mud weight of 10.0 ppg Brine. The casing is considered to be evacuated for collapse purposes.

Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Tension load = pipe weight in air at mid point in curve + 100K overpull

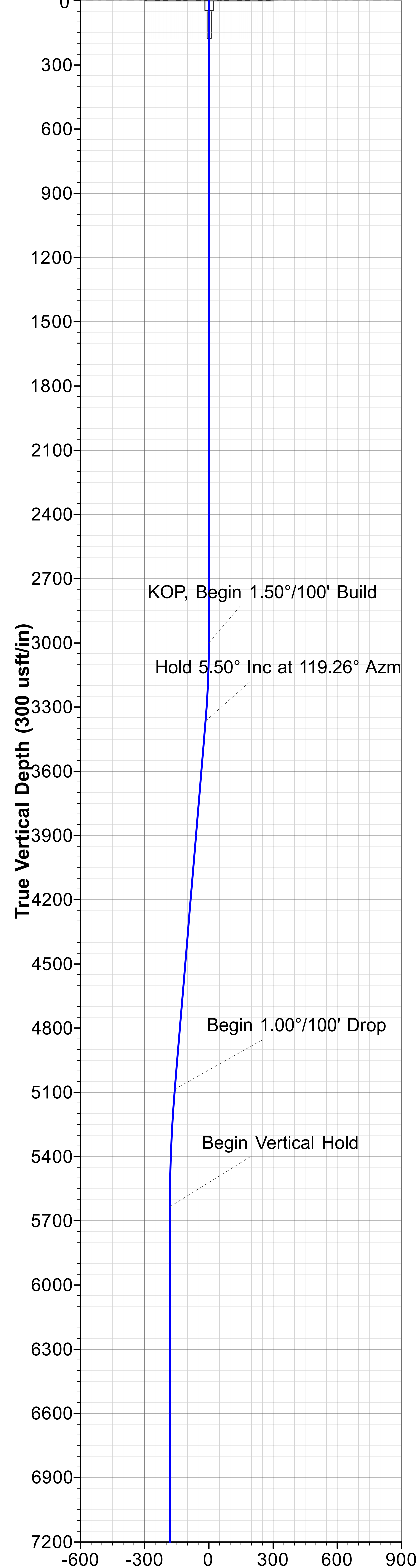
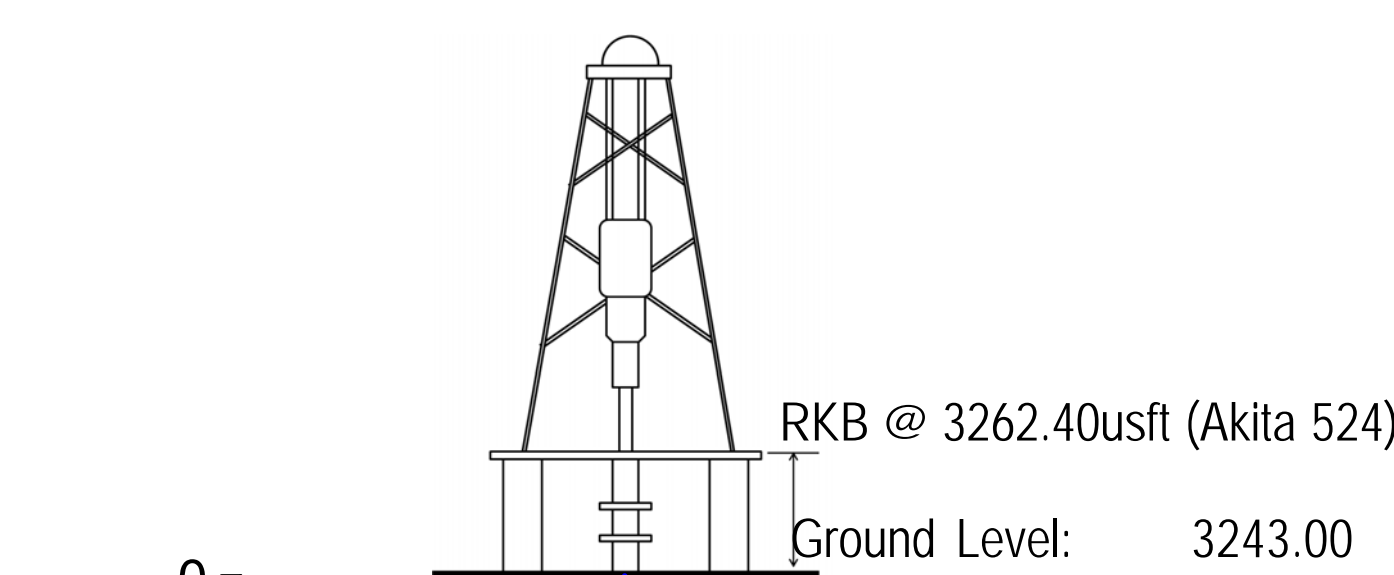
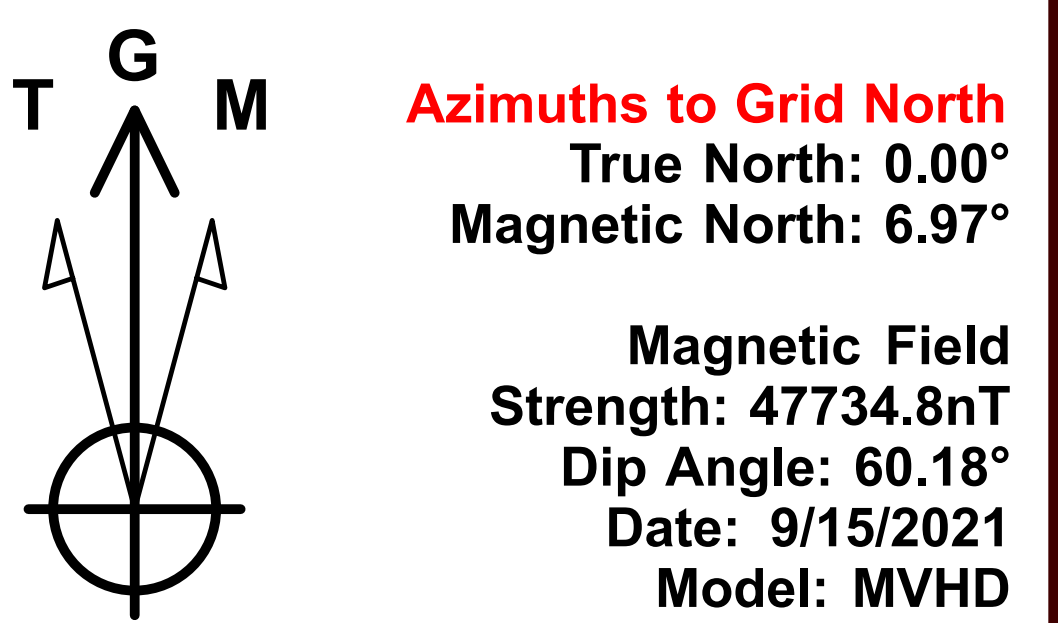
Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a tensile load which is added to the axial load



Tascosa Energy Partners, LLC.

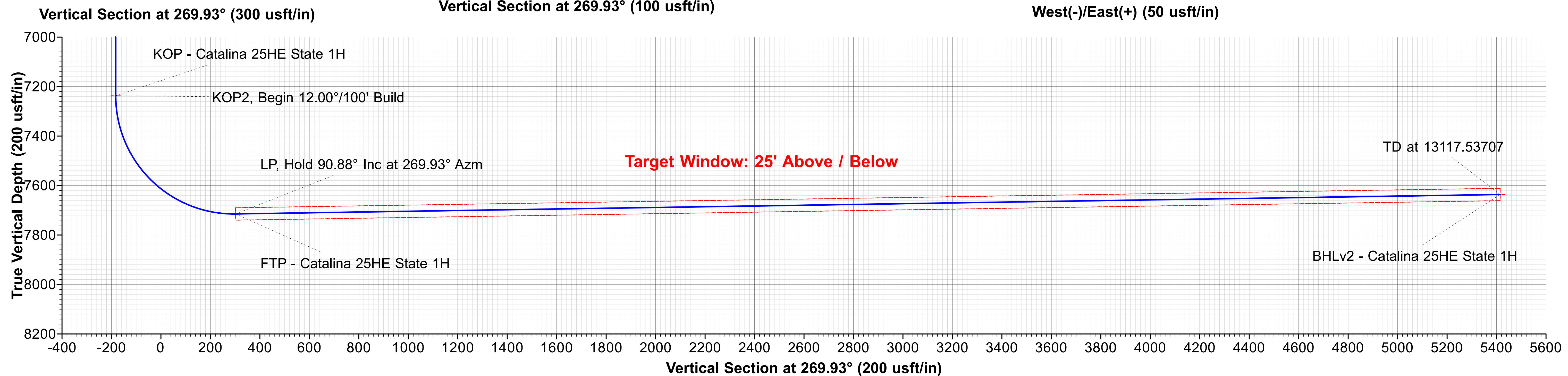
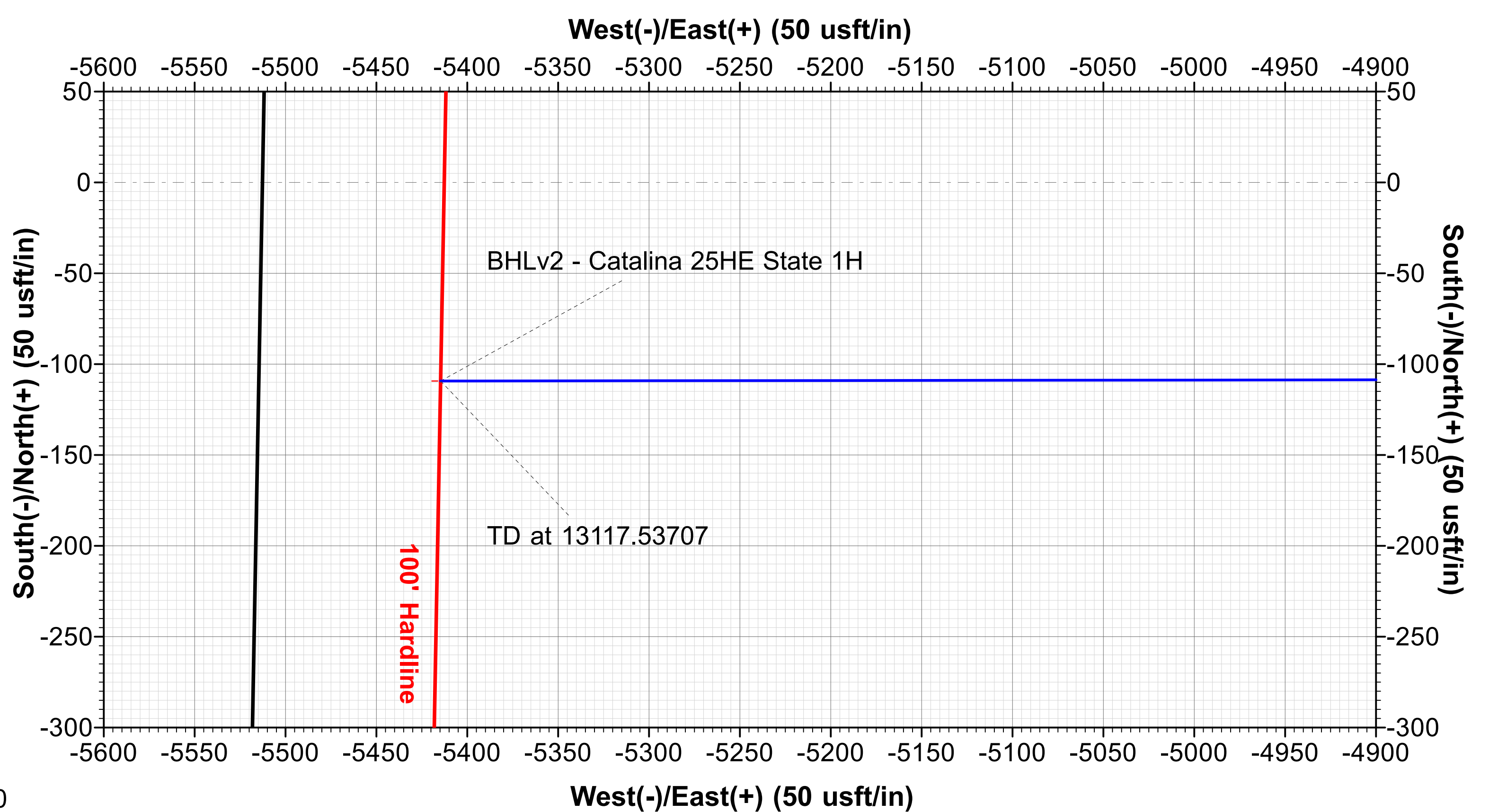
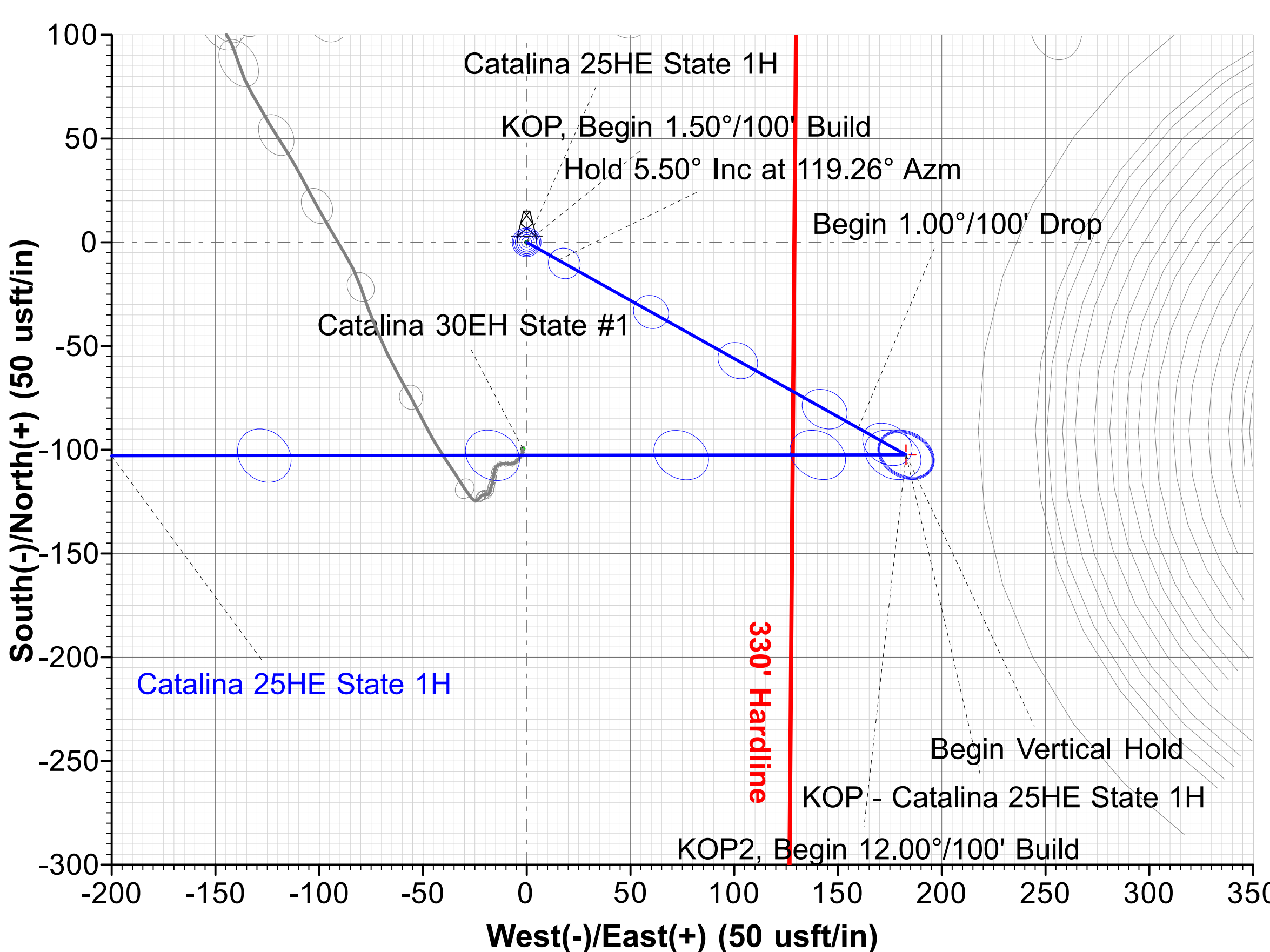
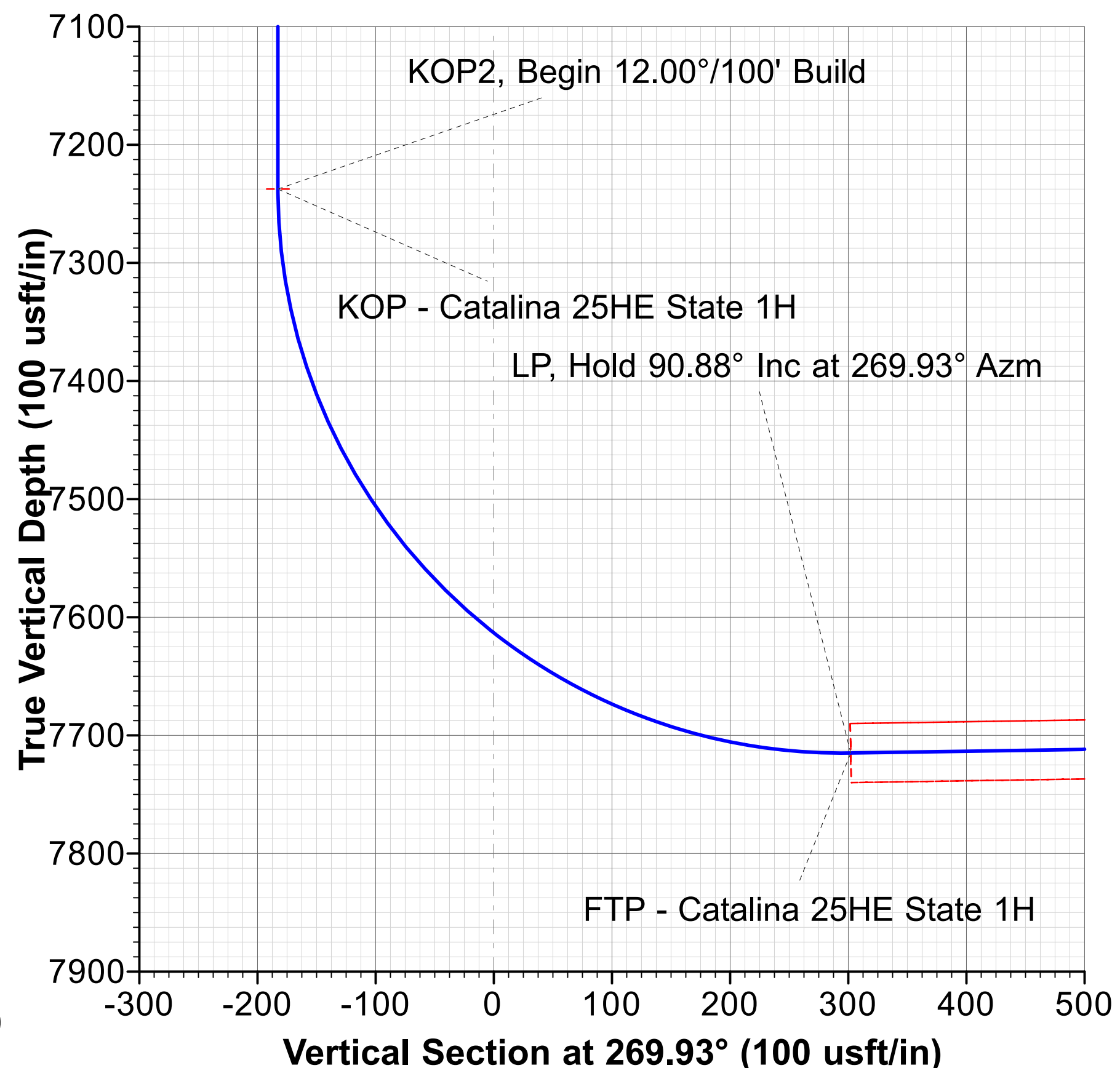
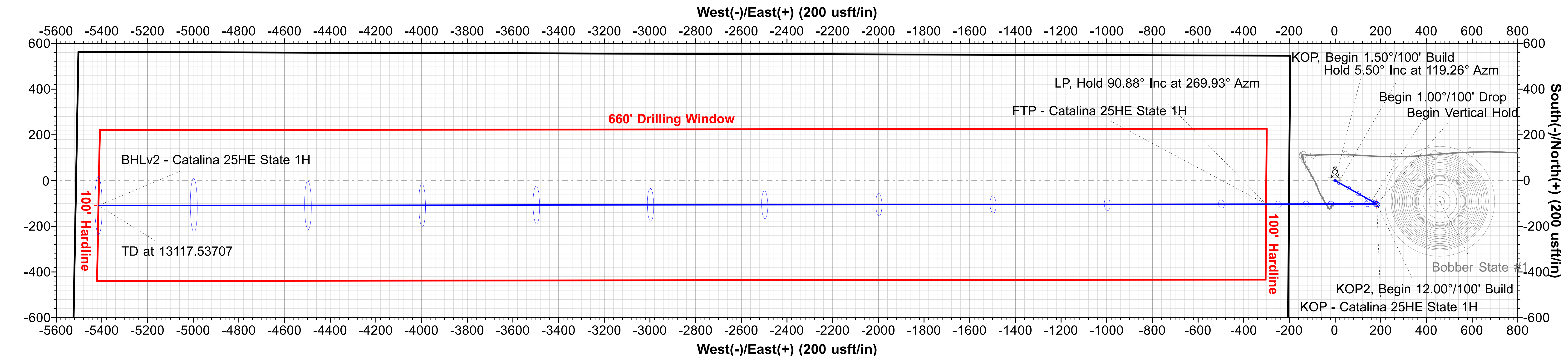
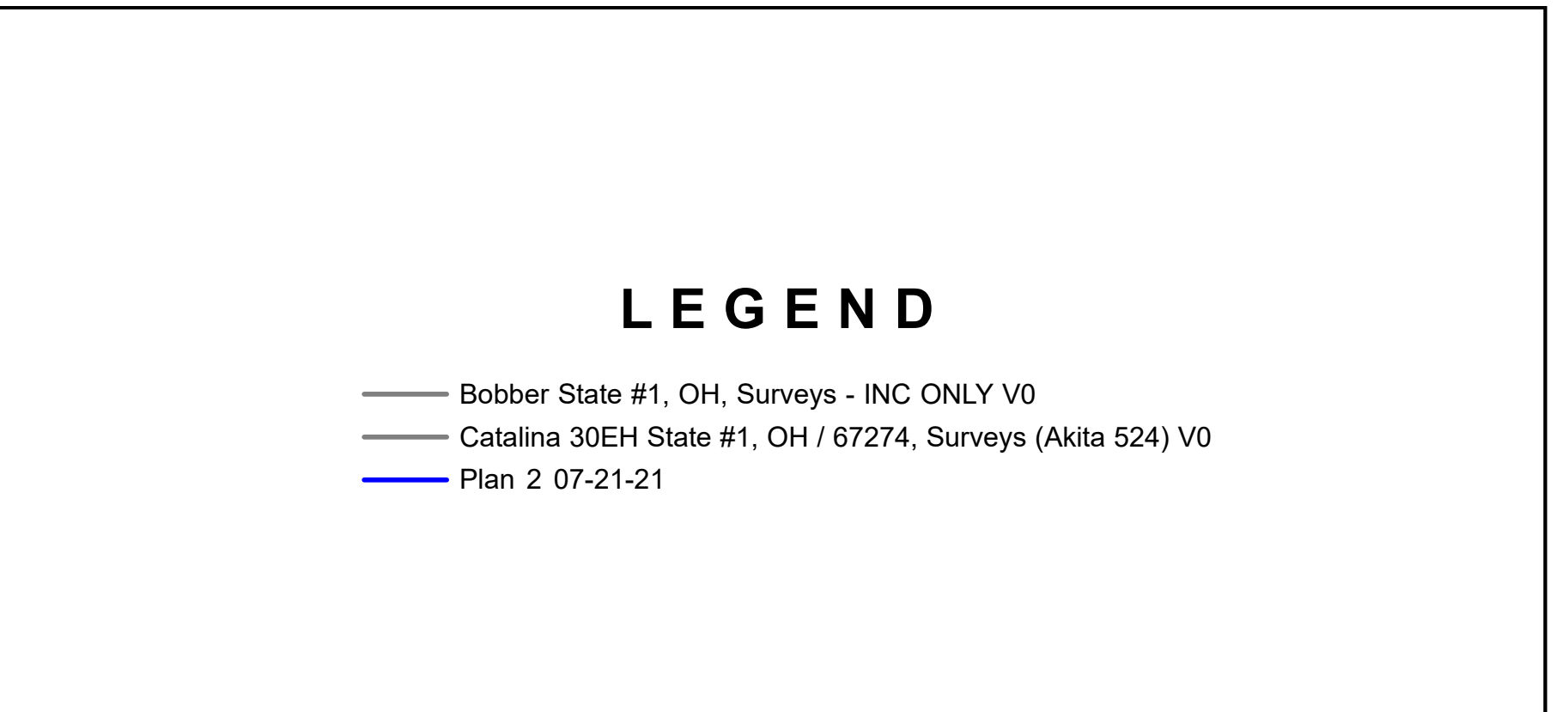
Project: Eddy County, NM (NAD 83 - NME)  
Site: Catalina  
Well: Catalina 25HE State 1H  
Wellbore: OH  
Design: Plan 2 07-21-21  
Rig: Akita 524



WELL DETAILS						
Ground Level: 3243.00						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	562551.00	542863.00	32° 32' 47.435470 N	104° 19' 42.177309 W	

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00		KOP, Begin 1.50°/100' Build
3	3366.67	5.50	119.26	3366.10	-8.59	15.34	1.50	119.26	-15.33		Hold 5.50° Inc at 119.26° Azm
4	5094.06	5.50	119.26	5085.55	-89.51	159.78	0.00	0.00	-159.67		Begin 1.00°/100' Drop
5	5644.06	0.00	269.93	5634.70	-102.40	182.80	1.00	180.00	-182.67		Begin Vertical Hold
6	7246.95	0.00	269.93	7237.59	-102.40	182.80	0.00	0.00	-182.67		KOP2, Begin 12.00°/100' Build
7	8004.28	90.88	269.93	7715.00	-103.00	-302.00	12.00	269.93	302.13		LP, Hold 90.88° Inc at 269.93° Azm
8	13117.54	90.88	269.93	7636.47	-109.28	-5414.65	0.00	0.00	5414.78	BHLv2 - Catalina 25HE State 1H	TD at 13117.53707

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
KOP - Catalina 25HE State 1H	7237.59	-102.40	182.80	562448.60	543045.80	32° 32' 46.422033 N	104° 19' 40.041719 W
BHLv2 - Catalina 25HE State 1H	7636.47	-109.28	-5414.65	562441.72	537448.35	32° 32' 46.352132 N	104° 20' 45.437440 W
FTP - Catalina 25HE State 1H	7715.00	-103.00	-302.00	562448.00	542561.00	32° 32' 46.416352 N	104° 19' 45.705674 W



Map System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone Name: New Mexico Eastern Zone

Local Origin: Well Catalina 25HE State 1H, Grid North

Latitude: 32° 32' 47.435470 N  
Longitude: 104° 19' 42.177309 W

Grid East: 542863.00  
Grid North: 562551.00  
Scale Factor: 1.000

Geomagnetic Model: MVHD  
Sample Date: 15-Sep-21  
Magnetic Declination: 6.97°  
Dip Angle from Horizontal: 60.18°  
Magnetic Field Strength: 47734.82596017nT

To convert a Magnetic Direction to a Grid Direction, Add 6.97°  
To convert a Magnetic Direction to a True Direction, Add 6.97° East  
To convert a True Direction to a Grid Direction, Subtract 0.00°





# **Tascosa Energy Partners, LLC.**

**Eddy County, NM (NAD 83 - NME)**

**Catalina**

**Catalina 25HE State 1H**

**OH**

**Plan: Plan 2 07-21-21**

## **Standard Planning Report**

**21 July, 2021**



## Phoenix Planning Report

<b>Database:</b>	USA Compass	<b>Local Co-ordinate Reference:</b>	Well Catalina 25HE State 1H
<b>Company:</b>	Tascosa Energy Partners, LLC.	<b>TVD Reference:</b>	RKB @ 3262.40usft (Akita 524)
<b>Project:</b>	Eddy County, NM (NAD 83 - NME)	<b>MD Reference:</b>	RKB @ 3262.40usft (Akita 524)
<b>Site:</b>	Catalina	<b>North Reference:</b>	Grid
<b>Well:</b>	Catalina 25HE State 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 2 07-21-21		

<b>Project</b>	Eddy County, NM (NAD 83 - NME)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	New Mexico Eastern Zone		

Site		Catalina			
Site Position:		Northing:	562,451.52 usft	Latitude:	32° 32' 46.451040 N
From:	Lat/Long	Easting:	542,861.25 usft	Longitude:	104° 19' 42.197880 W
Position Uncertainty:	1.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.00 °

Well	Catalina 25HE State 1H					
Well Position	+N/-S	99.48 usft	Northing:	562,551.00 usft	Latitude:	32° 32' 47.435470 N
	+E/-W	1.76 usft	Easting:	542,863.00 usft	Longitude:	104° 19' 42.177309 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,243.00 usft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	MVHD	9/15/2021	6.97	60.18	47,734.82596017

<b>Design</b>	Plan 2 07-21-21			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	269.93

<b>Plan Survey Tool Program</b>	<b>Date</b>	7/21/2021		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	13,117.54	Plan 2 07-21-21 (OH)	MWD+HRGM
				OWSG MWD + HRGM

<b>Plan Sections</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,366.67	5.50	119.26	3,366.10	-8.59	15.34	1.50	1.50	0.00	119.26	
5,094.06	5.50	119.26	5,085.55	-89.51	159.78	0.00	0.00	0.00	0.00	
5,644.06	0.00	269.93	5,634.70	-102.40	182.80	1.00	-1.00	0.00	180.00	
7,246.95	0.00	269.93	7,237.59	-102.40	182.80	0.00	0.00	0.00	0.00	
8,004.28	90.88	269.93	7,715.00	-103.00	-302.00	12.00	12.00	0.00	269.93	
13,117.54	90.88	269.93	7,636.47	-109.28	-5,414.65	0.00	0.00	0.00	0.00	BHLv2 - Catalina 25



## Phoenix Planning Report

<b>Database:</b>	USA Compass	<b>Local Co-ordinate Reference:</b>	Well Catalina 25HE State 1H
<b>Company:</b>	Tascosa Energy Partners, LLC.	<b>TVD Reference:</b>	RKB @ 3262.40usft (Akita 524)
<b>Project:</b>	Eddy County, NM (NAD 83 - NME)	<b>MD Reference:</b>	RKB @ 3262.40usft (Akita 524)
<b>Site:</b>	Catalina	<b>North Reference:</b>	Grid
<b>Well:</b>	Catalina 25HE State 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 2 07-21-21		

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
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>KOP, Begin 1.50°/100' Build</b>									
3,100.00	1.50	119.26	3,099.99	-0.64	1.14	-1.14	1.50	1.50	0.00
3,200.00	3.00	119.26	3,199.91	-2.56	4.57	-4.56	1.50	1.50	0.00
3,300.00	4.50	119.26	3,299.69	-5.75	10.27	-10.27	1.50	1.50	0.00
3,366.67	5.50	119.26	3,366.10	-8.59	15.34	-15.33	1.50	1.50	0.00
<b>Hold 5.50° Inc at 119.26° Azm</b>									
3,400.00	5.50	119.26	3,399.28	-10.16	18.13	-18.12	0.00	0.00	0.00
3,500.00	5.50	119.26	3,498.82	-14.84	26.49	-26.47	0.00	0.00	0.00
3,600.00	5.50	119.26	3,598.36	-19.52	34.85	-34.83	0.00	0.00	0.00
3,700.00	5.50	119.26	3,697.90	-24.21	43.21	-43.18	0.00	0.00	0.00
3,800.00	5.50	119.26	3,797.44	-28.89	51.58	-51.54	0.00	0.00	0.00
3,900.00	5.50	119.26	3,896.98	-33.58	59.94	-59.90	0.00	0.00	0.00
4,000.00	5.50	119.26	3,996.52	-38.26	68.30	-68.25	0.00	0.00	0.00
4,100.00	5.50	119.26	4,096.06	-42.95	76.66	-76.61	0.00	0.00	0.00
4,200.00	5.50	119.26	4,195.60	-47.63	85.02	-84.97	0.00	0.00	0.00
4,300.00	5.50	119.26	4,295.14	-52.32	93.39	-93.32	0.00	0.00	0.00
4,400.00	5.50	119.26	4,394.68	-57.00	101.75	-101.68	0.00	0.00	0.00
4,500.00	5.50	119.26	4,494.22	-61.68	110.11	-110.03	0.00	0.00	0.00
4,600.00	5.50	119.26	4,593.76	-66.37	118.47	-118.39	0.00	0.00	0.00
4,700.00	5.50	119.26	4,693.30	-71.05	126.83	-126.75	0.00	0.00	0.00
4,800.00	5.50	119.26	4,792.84	-75.74	135.20	-135.10	0.00	0.00	0.00
4,900.00	5.50	119.26	4,892.38	-80.42	143.56	-143.46	0.00	0.00	0.00
5,000.00	5.50	119.26	4,991.92	-85.11	151.92	-151.81	0.00	0.00	0.00
5,094.06	5.50	119.26	5,085.55	-89.51	159.78	-159.67	0.00	0.00	0.00
<b>Begin 1.00°/100' Drop</b>									
5,100.00	5.44	119.26	5,091.46	-89.79	160.28	-160.17	1.00	-1.00	0.00
5,200.00	4.44	119.26	5,191.08	-94.00	167.79	-167.68	1.00	-1.00	0.00
5,300.00	3.44	119.26	5,290.85	-97.36	173.79	-173.67	1.00	-1.00	0.00
5,400.00	2.44	119.26	5,390.71	-99.86	178.26	-178.14	1.00	-1.00	0.00
5,500.00	1.44	119.26	5,490.66	-101.52	181.22	-181.09	1.00	-1.00	0.00
5,600.00	0.44	119.26	5,590.64	-102.32	182.65	-182.52	1.00	-1.00	0.00
5,644.06	0.00	269.93	5,634.70	-102.40	182.80	-182.67	1.00	-1.00	0.00
<b>Begin Vertical Hold</b>									
7,246.95	0.00	0.00	7,237.59	-102.40	182.80	-182.67	0.00	0.00	0.00
<b>KOP2, Begin 12.00°/100' Build</b>									
7,300.00	6.37	269.93	7,290.53	-102.41	179.85	-179.73	12.00	12.00	0.00
7,400.00	18.37	269.93	7,388.03	-102.43	158.48	-158.35	12.00	12.00	0.00
7,500.00	30.37	269.93	7,478.96	-102.48	117.30	-117.17	12.00	12.00	0.00
7,600.00	42.37	269.93	7,559.34	-102.56	58.11	-57.98	12.00	12.00	0.00
7,700.00	54.37	269.93	7,625.65	-102.65	-16.49	16.62	12.00	12.00	0.00
7,800.00	66.37	269.93	7,675.01	-102.76	-103.25	103.38	12.00	12.00	0.00
7,900.00	78.37	269.93	7,705.25	-102.87	-198.38	198.51	12.00	12.00	0.00
8,000.00	90.37	269.93	7,715.05	-102.99	-297.72	297.84	12.00	12.00	0.00
8,004.28	90.88	269.93	7,715.00	-103.00	-302.00	302.13	12.00	12.00	0.00
<b>LP, Hold 90.88° Inc at 269.93° Azm</b>									
8,100.00	90.88	269.93	7,713.53	-103.12	-397.70	397.83	0.00	0.00	0.00
8,200.00	90.88	269.93	7,711.99	-103.24	-497.69	497.82	0.00	0.00	0.00
8,300.00	90.88	269.93	7,710.46	-103.36	-597.68	597.81	0.00	0.00	0.00
8,400.00	90.88	269.93	7,708.92	-103.49	-697.67	697.80	0.00	0.00	0.00
8,500.00	90.88	269.93	7,707.39	-103.61	-797.66	797.78	0.00	0.00	0.00
8,600.00	90.88	269.93	7,705.85	-103.73	-897.65	897.77	0.00	0.00	0.00



## Phoenix Planning Report

<b>Database:</b>	USA Compass	<b>Local Co-ordinate Reference:</b>	Well Catalina 25HE State 1H
<b>Company:</b>	Tascosa Energy Partners, LLC.	<b>TVD Reference:</b>	RKB @ 3262.40usft (Akita 524)
<b>Project:</b>	Eddy County, NM (NAD 83 - NME)	<b>MD Reference:</b>	RKB @ 3262.40usft (Akita 524)
<b>Site:</b>	Catalina	<b>North Reference:</b>	Grid
<b>Well:</b>	Catalina 25HE State 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 2 07-21-21		

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)
8,700.00	90.88	269.93	7,704.32	-103.85	-997.63	997.76	0.00	0.00	0.00
8,800.00	90.88	269.93	7,702.78	-103.98	-1,097.62	1,097.75	0.00	0.00	0.00
8,900.00	90.88	269.93	7,701.24	-104.10	-1,197.61	1,197.74	0.00	0.00	0.00
9,000.00	90.88	269.93	7,699.71	-104.22	-1,297.60	1,297.72	0.00	0.00	0.00
9,100.00	90.88	269.93	7,698.17	-104.35	-1,397.59	1,397.71	0.00	0.00	0.00
9,200.00	90.88	269.93	7,696.64	-104.47	-1,497.57	1,497.70	0.00	0.00	0.00
9,300.00	90.88	269.93	7,695.10	-104.59	-1,597.56	1,597.69	0.00	0.00	0.00
9,400.00	90.88	269.93	7,693.57	-104.71	-1,697.55	1,697.68	0.00	0.00	0.00
9,500.00	90.88	269.93	7,692.03	-104.84	-1,797.54	1,797.67	0.00	0.00	0.00
9,600.00	90.88	269.93	7,690.49	-104.96	-1,897.53	1,897.65	0.00	0.00	0.00
9,700.00	90.88	269.93	7,688.96	-105.08	-1,997.51	1,997.64	0.00	0.00	0.00
9,800.00	90.88	269.93	7,687.42	-105.21	-2,097.50	2,097.63	0.00	0.00	0.00
9,900.00	90.88	269.93	7,685.89	-105.33	-2,197.49	2,197.62	0.00	0.00	0.00
10,000.00	90.88	269.93	7,684.35	-105.45	-2,297.48	2,297.61	0.00	0.00	0.00
10,100.00	90.88	269.93	7,682.82	-105.57	-2,397.47	2,397.59	0.00	0.00	0.00
10,200.00	90.88	269.93	7,681.28	-105.70	-2,497.46	2,497.58	0.00	0.00	0.00
10,300.00	90.88	269.93	7,679.74	-105.82	-2,597.44	2,597.57	0.00	0.00	0.00
10,400.00	90.88	269.93	7,678.21	-105.94	-2,697.43	2,697.56	0.00	0.00	0.00
10,500.00	90.88	269.93	7,676.67	-106.07	-2,797.42	2,797.55	0.00	0.00	0.00
10,600.00	90.88	269.93	7,675.14	-106.19	-2,897.41	2,897.54	0.00	0.00	0.00
10,700.00	90.88	269.93	7,673.60	-106.31	-2,997.40	2,997.52	0.00	0.00	0.00
10,800.00	90.88	269.93	7,672.06	-106.43	-3,097.38	3,097.51	0.00	0.00	0.00
10,900.00	90.88	269.93	7,670.53	-106.56	-3,197.37	3,197.50	0.00	0.00	0.00
11,000.00	90.88	269.93	7,668.99	-106.68	-3,297.36	3,297.49	0.00	0.00	0.00
11,100.00	90.88	269.93	7,667.46	-106.80	-3,397.35	3,397.48	0.00	0.00	0.00
11,200.00	90.88	269.93	7,665.92	-106.93	-3,497.34	3,497.47	0.00	0.00	0.00
11,300.00	90.88	269.93	7,664.39	-107.05	-3,597.32	3,597.45	0.00	0.00	0.00
11,400.00	90.88	269.93	7,662.85	-107.17	-3,697.31	3,697.44	0.00	0.00	0.00
11,500.00	90.88	269.93	7,661.31	-107.29	-3,797.30	3,797.43	0.00	0.00	0.00
11,600.00	90.88	269.93	7,659.78	-107.42	-3,897.29	3,897.42	0.00	0.00	0.00
11,700.00	90.88	269.93	7,658.24	-107.54	-3,997.28	3,997.41	0.00	0.00	0.00
11,800.00	90.88	269.93	7,656.71	-107.66	-4,097.27	4,097.39	0.00	0.00	0.00
11,900.00	90.88	269.93	7,655.17	-107.79	-4,197.25	4,197.38	0.00	0.00	0.00
12,000.00	90.88	269.93	7,653.64	-107.91	-4,297.24	4,297.37	0.00	0.00	0.00
12,100.00	90.88	269.93	7,652.10	-108.03	-4,397.23	4,397.36	0.00	0.00	0.00
12,200.00	90.88	269.93	7,650.56	-108.15	-4,497.22	4,497.35	0.00	0.00	0.00
12,300.00	90.88	269.93	7,649.03	-108.28	-4,597.21	4,597.34	0.00	0.00	0.00
12,400.00	90.88	269.93	7,647.49	-108.40	-4,697.19	4,697.32	0.00	0.00	0.00
12,500.00	90.88	269.93	7,645.96	-108.52	-4,797.18	4,797.31	0.00	0.00	0.00
12,600.00	90.88	269.93	7,644.42	-108.65	-4,897.17	4,897.30	0.00	0.00	0.00
12,700.00	90.88	269.93	7,642.89	-108.77	-4,997.16	4,997.29	0.00	0.00	0.00
12,800.00	90.88	269.93	7,641.35	-108.89	-5,097.15	5,097.28	0.00	0.00	0.00
12,900.00	90.88	269.93	7,639.81	-109.01	-5,197.13	5,197.26	0.00	0.00	0.00
13,000.00	90.88	269.93	7,638.28	-109.14	-5,297.12	5,297.25	0.00	0.00	0.00
13,100.00	90.88	269.93	7,636.74	-109.26	-5,397.11	5,397.24	0.00	0.00	0.00
13,117.54	90.88	269.93	7,636.47	-109.28	-5,414.65	5,414.78	0.00	0.00	0.00
TD at 13117.53707									



## Phoenix Planning Report

<b>Database:</b>	USA Compass	<b>Local Co-ordinate Reference:</b>	Well Catalina 25HE State 1H
<b>Company:</b>	Tascosa Energy Partners, LLC.	<b>TVD Reference:</b>	RKB @ 3262.40usft (Akita 524)
<b>Project:</b>	Eddy County, NM (NAD 83 - NME)	<b>MD Reference:</b>	RKB @ 3262.40usft (Akita 524)
<b>Site:</b>	Catalina	<b>North Reference:</b>	Grid
<b>Well:</b>	Catalina 25HE State 1H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan 2 07-21-21		

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)		
KOP - Catalina 25HE - plan hits target center - Point	0.00	0.00	7,237.59	-102.40	182.80	562,448.60	543,045.80	32° 32' 46.422033 N	4° 19' 40.041719 W
BHLv2 - Catalina 25H - plan hits target center - Rectangle (sides W0.00 H5,113.25 D50.00)	-0.88	269.93	7,636.47	-109.28	-5,414.65	562,441.72	537,448.36	32° 32' 46.352132 N	4° 20' 45.437440 W
FTP - Catalina 25HE - plan hits target center - Point	0.00	0.00	7,715.00	-103.00	-302.00	562,448.00	542,561.00	32° 32' 46.416352 N	4° 19' 45.705674 W

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,000.00	3,000.00	0.00	0.00	KOP, Begin 1.50°/100' Build
3,366.67	3,366.10	-8.59	15.34	Hold 5.50° Inc at 119.26° Azm
5,094.06	5,085.55	-89.51	159.78	Begin 1.00°/100' Drop
5,644.06	5,634.70	-102.40	182.80	Begin Vertical Hold
7,246.95	7,237.59	-102.40	182.80	KOP2, Begin 12.00°/100' Build
8,004.28	7,715.00	-103.00	-302.00	LP, Hold 90.88° Inc at 269.93° Azm
13,117.54	7,636.47	-109.28	-5,414.65	TD at 13117.53707

API #			
Operator Name:	Property Name:	Well Number	

### Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

### First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

### Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

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

Is this well an infill well? ☐

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

API #			
Operator Name:	Property Name:	Well Number	

### Estimated Formation Tops

[illegible]

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

Submit Electronically  
Via E-permitting

## NATURAL GAS MANAGEMENT PLAN

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

### Section 1 – Plan Description

Effective May 25, 2021

**I. Operator:** Tascosa Energy Partners, LLC **OGRID:** 329748 **Date:** 07 / 28 / 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
Catalina 25 HE St #1H		E S30, 20S, 27E	1881 FNL 201 FWL	700	1500	750

**IV. Central Delivery Point Name:** Tascosa Section 30 [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
Catalina 25 HE State #1H		9/15/2021	10/10/2021	11/30/2021	12/15/2021	12/31/2021

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

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

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



## **Section 2 – Enhanced Plan**

### **EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

#### **IX. Anticipated Natural Gas Production:**

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

#### **X. Natural Gas Gathering System (NGGS):**

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

**XI. Map.** ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

**XII. Line Capacity.** The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

**XIII. Line Pressure.** Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

**XIV. Confidentiality:** ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

### **Section 3 - Certifications**

**Effective May 25, 2021**

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

***If Operator checks this box, Operator will select one of the following:***

**Well Shut-In.** ☒ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

**Venting and Flaring Plan.** ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

### **Section 4 - Notices**

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: <i>Alyssa McNear</i>
Printed Name: Alyssa McNear
Title: Engineering Manager
E-mail Address: adavanzo@tascosaep.com
Date: 07/28/2021
Phone: 432-695-6970
<b>OIL CONSERVATION DIVISION</b> <b>(Only applicable when submitted as a standalone form)</b>
Approved By:
Title:
Approval Date:
Conditions of Approval:



## **Catalina 25HE State #1 – Natural Gas Management Plan**

### **VI. Separation Equipment:**

Tascosa has sized a FWKO and a high pressure, 3-phase separator to allow for complete separation at our anticipated rates, with adequate retention times. Tank vapors will also be captured through a vapor recovery unit and sent to the Enterprise sales line through a compressor on location.

### **VII. Operational Practices:**

- a. Drilling Operations – Tascosa will ensure that a flare stack is set at least 100' from the wellbore during drilling operations. This flare stack will be properly sized to handle the maximum expected release, ensuring that all natural gas produced during drilling operations can be flared (unless there is an equipment malfunction or if venting is necessary for safety reasons).
- b. Completion Operations – Prior to flowback, Tascosa will ensure that the well is connected to a gathering system that can handle the expected gas volumes. During flowback, natural gas will be separated and flared until it is within the specs of the contracted gathering system (Enterprise).
- c. Production Operations – Tascosa will conduct weekly AVO inspections and tackle equipment failures with haste. The emergency flare on location will be equipped with an auto-ignition, capable of handling the maximum expected release. Sight glasses will be installed on all tanks to eliminate gas releases due to gauging through thief hatches. A VRU will also be installed to capture tank vapors and reduce waste. In preparation of a VRU failure or planned maintenance, a backup combustor will be placed at the facility.
- d. Performance Standards –
  - a. Tascosa will design completion and production equipment for maximum expected output and pressure to eliminate venting.
  - b. A properly sized flare stack will be placed at the facility with an automatic ignitor.
  - c. AVO inspections will be conducted at least once a week to prevent releases due to equipment failure. These inspections will be recorded for future review.
  - d. Tascosa is obligated to eliminate waste and will repair equipment failures as soon as possible.
- e. Measurement and Estimation – A meter will be placed on the combustor and the flare stack to ensure combusted gas readings are accurate during a release event. If for any reason a meter reading is unavailable, released volumes will be estimated and reported.



### **VIII. Best Management Practices:**

Tascosa will aim to conduct surface maintenance without venting or flaring as much as possible. If planned maintenance is prolonged due to wait times for labor and equipment, Tascosa will shut in the producing well to prevent excess emissions. Tascosa will also minimized venting during downhole operations.