District I
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District II
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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 325510

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

1. Operator Name and Address	2. OGRID Number
ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	372417
	3. API Number 30-025-50653

4. Property Code	5. Property Name	6. Well No.
333291	DAGGER SW 22 33 6 STATE COM	911H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	6	22S	33E	7	230	S	733	W	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
L	30	21S	33E	3	2690	N	430	W	Lea

9. Pool Information

WC-025 G-07 S213330F;BONE SPRING	97927

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3614
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	24038	3rd Bone Spring Carbonate		2/19/2023
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1128	890	0
Int1	12.25	10.75	40.5	4952	718	0
Int2	9.875	7.625	29.7	10479	1236	0
Prod	6.75	5.5	20	24038	769	0

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	TBD

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. **I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.** Signature:		**OIL CONSERVATION DIVISION**	
Printed Name:	Electronically filed by Eileen M Kosakowski	Approved By:	Paul F Kautz
Title:		Title:	Geologist
Email Address:	ekosakowski@advanceenergypartners.com	Approved Date:	9/28/2022 Expiration Date: 9/28/2024
Date:	9/16/2022 Phone: 832-672-4604	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	[3] Pool Name
30-025- 50653	97927	WC-025 G-07 S213330F; BONE SPRING

[4] Property Code	[5] Property Name	[6] Well Number
333291	Dagger SW 22-33-6 State Com	#911H

[7] OGRID No.	[8] Operator Name	[9] Elevation
372417	ADVANCE ENERGY PARTNERS HAT MESA LLC	3,614.41'

[10] Surface Location

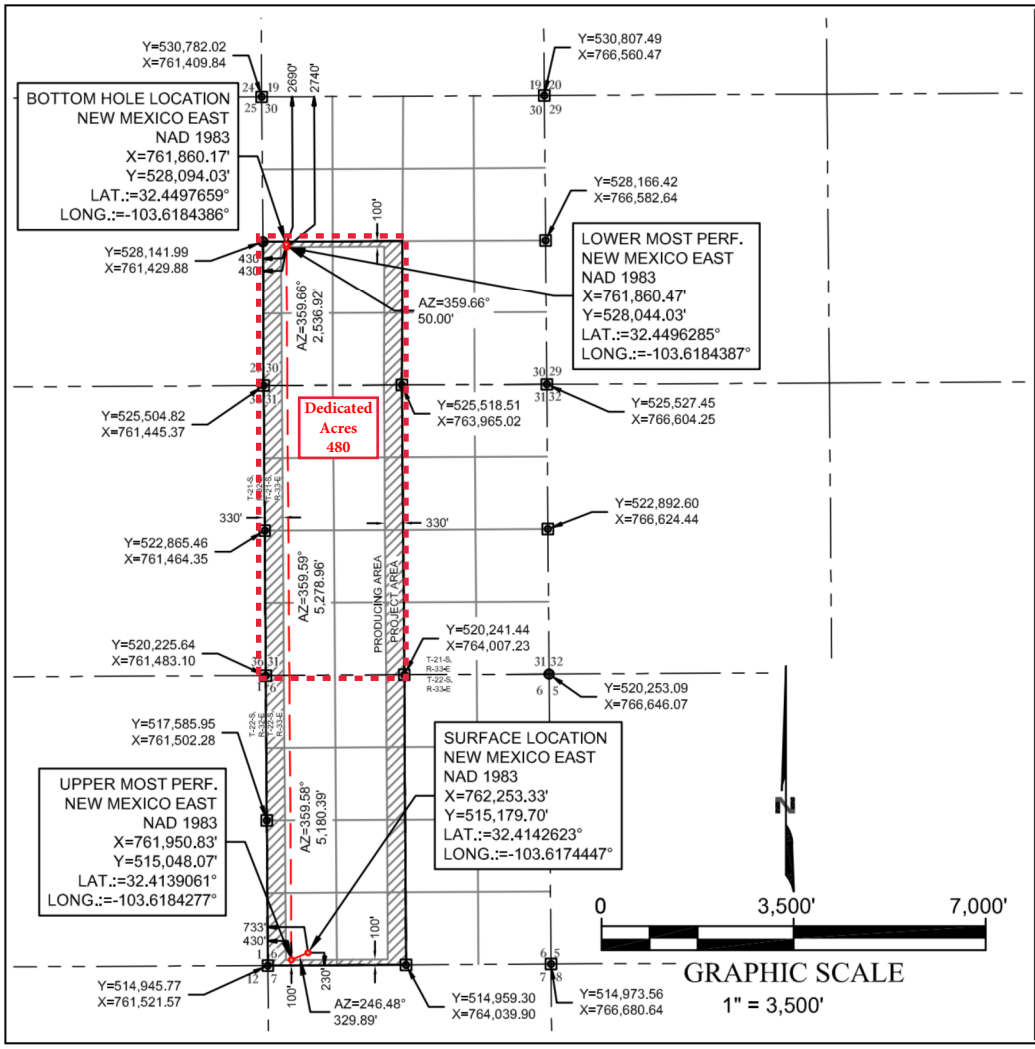
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
7	6	22-S	33-E	- -	230'	SOUTH	733'	WEST	LEA

[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
3	30	21-S	33-E	- -	2,690'	NORTH	430'	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
480			

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.

Signature — Date: 9/8/2022

Floyd Hammond
Printed Name

fhammond@ameredev.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.

08/09/2022
Date of Survey

Signature and Seal of Professional Surveyor:

BRADLEY AMES DEMPSTER
NEW MEXICO
25779
PROFESSIONAL SURVEYOR

25779
Certificate Number

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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	[3] Pool Name
30-025- 50653	37870	LEGG;BONE SPRING

[4] Property Code	[5] Property Name	[6] Well Number
333291	Dagger SW 22-33-6 State Com	#911H

[7] OGRID No.	[8] Operator Name	[9] Elevation
372417	ADVANCE ENERGY PARTNERS HAT MESA LLC	3,614.41'

[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
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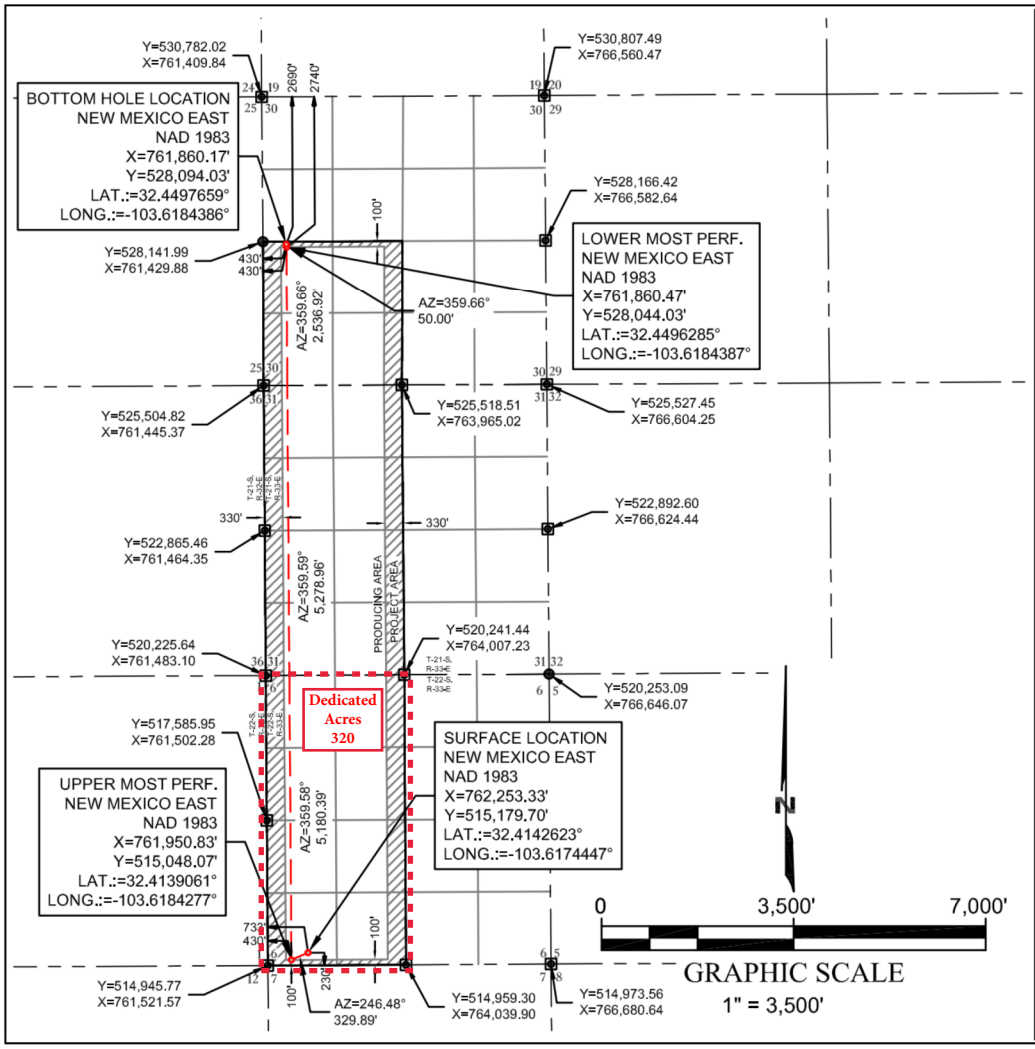
3	30	21-S	33-E	- -	2,690'	NORTH	430'	WEST	LEA

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

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.

Signature — Date: 9/8/2022

Floyd Hammond
Printed Name

fhammond@ameredev.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.

08/09/2022
Date of Survey

Signature and Seal of Professional Surveyor:

BRADLEY AMES DEMPSTER
NEW MEXICO
25779
PROFESSIONAL SURVEYOR

25779
Certificate Number

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

Form APD Conditions

Permit 325510

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
ADVANCE ENERGY PARTNERS HAT MESA, LLC [372417] 11490 Westheimer Rd., Ste 950 Houston, TX 77077	30-025-50653
	Well: DAGGER SW 22 33 6 STATE COM #911H

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	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
pkautz	CEMENT MUST COME TO THE SURFACE ON ALL STRINGS

Advance Energy Partners

Hat Mesa
Dagger State
Dagger SW 22-33-6 State Com 911H

Dagger SW 22-33-6 State Com 911H

Plan: Dagger SW 22-33-6 State Com 911H

Standard Planning Report - Geographic

13 September, 2022

Ameredev

Planning Report - Geographic

Database:	EDM 5000.16 Single User Db	**Local Co-ordinate Reference:**	Well Dagger SW 22-33-6 State Com 911H
Company:	Advance Energy Partners	**TVD Reference:**	WELL @ 3640.5usft (Original Well Elev)
Project:	Hat Mesa	**MD Reference:**	WELL @ 3640.5usft (Original Well Elev)
Site:	Dagger State	**North Reference:**	Grid
Well:	Dagger SW 22-33-6 State Com 911H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Dagger SW 22-33-6 State Com 911H		
Design:	Dagger SW 22-33-6 State Com 911H		

Project Hat Mesa, Lea County, NM

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Dagger State

Site Position:		**Northing:**	529,194.79 usft	**Latitude:**	32.452714°N
From:	Lat/Long	**Easting:**	766,028.88 usft	**Longitude:**	103.604901°W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well Dagger SW 22-33-6 State Com 911H

Well Position	**+N/-S**	0.0 usft	**Northing:**	515,179.69 usft	**Latitude:**	32.414262°N
	+E/-W	0.0 usft	**Easting:**	762,253.32 usft	**Longitude:**	103.617445°W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,614.0 usft
Grid Convergence:		0.38 °				

Wellbore Dagger SW 22-33-6 State Com 911H

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/13/2022	6.42	60.16	47,504.77551217

Design Dagger SW 22-33-6 State Com 911H

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	358.26

Plan Survey Tool Program **Date** 9/13/2022

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	24,038.0	Dagger SW 22-33-6 State Com 9		

Ameredev

Planning Report - Geographic

Database:	EDM 5000.16 Single User Db	**Local Co-ordinate Reference:**	Well Dagger SW 22-33-6 State Com 911H
Company:	Advance Energy Partners	**TVD Reference:**	WELL @ 3640.5usft (Original Well Elev)
Project:	Hat Mesa	**MD Reference:**	WELL @ 3640.5usft (Original Well Elev)
Site:	Dagger State	**North Reference:**	Grid
Well:	Dagger SW 22-33-6 State Com 911H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Dagger SW 22-33-6 State Com 911H		
Design:	Dagger SW 22-33-6 State Com 911H		

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	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,362.4	3.62	245.98	5,362.2	-4.7	-10.5	1.00	1.00	0.00	245.98	
10,247.9	3.62	245.98	10,237.8	-130.3	-292.5	0.00	0.00	0.00	0.00	
10,610.3	0.00	0.00	10,600.0	-135.0	-303.0	1.00	-1.00	0.00	180.00	
10,715.8	0.00	0.00	10,705.5	-135.0	-303.0	0.00	0.00	0.00	0.00	
11,465.8	90.00	359.60	11,183.0	342.5	-306.3	12.00	12.00	0.00	359.60	
11,465.8	90.00	359.60	11,183.0	342.5	-306.3	0.00	0.00	0.00	0.00	Dagger SW 22-33-6 S
23,988.0	90.00	359.60	11,183.0	12,864.3	-392.8	0.00	0.00	0.00	0.00	Dagger SW 22-33-6 S
24,038.0	90.00	359.70	11,183.0	12,914.3	-393.1	0.19	0.00	0.19	90.00	Dagger SW 22-33-6 S

Ameredev

Planning Report - Geographic

Database:	EDM 5000.16 Single User Db	**Local Co-ordinate Reference:**	Well Dagger SW 22-33-6 State Com 911H
Company:	Advance Energy Partners	**TVD Reference:**	WELL @ 3640.5usft (Original Well Elev)
Project:	Hat Mesa	**MD Reference:**	WELL @ 3640.5usft (Original Well Elev)
Site:	Dagger State	**North Reference:**	Grid
Well:	Dagger SW 22-33-6 State Com 911H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Dagger SW 22-33-6 State Com 911H		
Design:	Dagger SW 22-33-6 State Com 911H		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
100.0	0.00	0.00	100.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
200.0	0.00	0.00	200.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
300.0	0.00	0.00	300.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
400.0	0.00	0.00	400.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
500.0	0.00	0.00	500.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
600.0	0.00	0.00	600.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
700.0	0.00	0.00	700.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
800.0	0.00	0.00	800.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
900.0	0.00	0.00	900.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
1,003.0	0.00	0.00	1,003.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
Rustler									
1,100.0	0.00	0.00	1,100.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
1,437.0	0.00	0.00	1,437.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
Salado									
1,500.0	0.00	0.00	1,500.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
2,100.0	0.00	0.00	2,100.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
2,200.0	0.00	0.00	2,200.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
2,300.0	0.00	0.00	2,300.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
2,400.0	0.00	0.00	2,400.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
2,500.0	0.00	0.00	2,500.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
2,600.0	0.00	0.00	2,600.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
2,700.0	0.00	0.00	2,700.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
2,800.0	0.00	0.00	2,800.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
2,900.0	0.00	0.00	2,900.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
3,000.0	0.00	0.00	3,000.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
3,100.0	0.00	0.00	3,100.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
3,183.0	0.00	0.00	3,183.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
Tansill									
3,200.0	0.00	0.00	3,200.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
3,300.0	0.00	0.00	3,300.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
3,400.0	0.00	0.00	3,400.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
3,500.0	0.00	0.00	3,500.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
3,552.0	0.00	0.00	3,552.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
Capitan									
3,600.0	0.00	0.00	3,600.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
3,700.0	0.00	0.00	3,700.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
3,800.0	0.00	0.00	3,800.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
3,900.0	0.00	0.00	3,900.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
4,000.0	0.00	0.00	4,000.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
4,100.0	0.00	0.00	4,100.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
4,200.0	0.00	0.00	4,200.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
4,300.0	0.00	0.00	4,300.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
4,400.0	0.00	0.00	4,400.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
4,500.0	0.00	0.00	4,500.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W

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Planning Report - Geographic

Database:	EDM 5000.16 Single User Db	**Local Co-ordinate Reference:**	Well Dagger SW 22-33-6 State Com 911H
Company:	Advance Energy Partners	**TVD Reference:**	WELL @ 3640.5usft (Original Well Elev)
Project:	Hat Mesa	**MD Reference:**	WELL @ 3640.5usft (Original Well Elev)
Site:	Dagger State	**North Reference:**	Grid
Well:	Dagger SW 22-33-6 State Com 911H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Dagger SW 22-33-6 State Com 911H		
Design:	Dagger SW 22-33-6 State Com 911H		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,600.0	0.00	0.00	4,600.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
4,700.0	0.00	0.00	4,700.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
4,800.0	0.00	0.00	4,800.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
4,900.0	0.00	0.00	4,900.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
4,902.0	0.00	0.00	4,902.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
Bell Canyon									
5,000.0	0.00	0.00	5,000.0	0.0	0.0	515,179.69	762,253.32	32.414262°N	103.617445°W
KOP - Start Build 1.00									
5,100.0	1.00	245.98	5,100.0	-0.4	-0.8	515,179.34	762,252.53	32.414261°N	103.617448°W
5,200.0	2.00	245.98	5,200.0	-1.4	-3.2	515,178.27	762,250.13	32.414259°N	103.617455°W
5,300.0	3.00	245.98	5,299.9	-3.2	-7.2	515,176.50	762,246.15	32.414254°N	103.617468°W
5,362.4	3.62	245.98	5,362.2	-4.7	-10.5	515,175.03	762,242.86	32.414250°N	103.617479°W
Start 4885.5 hold at 5362.4 MD									
5,400.0	3.62	245.98	5,399.7	-5.6	-12.6	515,174.06	762,240.69	32.414247°N	103.617486°W
5,500.0	3.62	245.98	5,499.5	-8.2	-18.4	515,171.49	762,234.91	32.414240°N	103.617505°W
5,600.0	3.62	245.98	5,599.3	-10.8	-24.2	515,168.92	762,229.14	32.414233°N	103.617524°W
5,700.0	3.62	245.98	5,699.1	-13.3	-30.0	515,166.34	762,223.37	32.414226°N	103.617542°W
5,800.0	3.62	245.98	5,798.9	-15.9	-35.7	515,163.77	762,217.59	32.414219°N	103.617561°W
5,900.0	3.62	245.98	5,898.7	-18.5	-41.5	515,161.20	762,211.82	32.414212°N	103.617580°W
6,000.0	3.62	245.98	5,998.5	-21.1	-47.3	515,158.63	762,206.04	32.414205°N	103.617599°W
6,100.0	3.62	245.98	6,098.3	-23.6	-53.1	515,156.05	762,200.27	32.414198°N	103.617617°W
6,200.0	3.62	245.98	6,198.1	-26.2	-58.8	515,153.48	762,194.50	32.414191°N	103.617636°W
6,300.0	3.62	245.98	6,297.9	-28.8	-64.6	515,150.91	762,188.72	32.414184°N	103.617655°W
6,400.0	3.62	245.98	6,397.7	-31.4	-70.4	515,148.34	762,182.95	32.414177°N	103.617674°W
6,500.0	3.62	245.98	6,497.5	-33.9	-76.1	515,145.76	762,177.18	32.414171°N	103.617692°W
6,600.0	3.62	245.98	6,597.3	-36.5	-81.9	515,143.19	762,171.40	32.414164°N	103.617711°W
6,700.0	3.62	245.98	6,697.1	-39.1	-87.7	515,140.62	762,165.63	32.414157°N	103.617730°W
6,800.0	3.62	245.98	6,796.9	-41.6	-93.5	515,138.05	762,159.86	32.414150°N	103.617749°W
6,900.0	3.62	245.98	6,896.7	-44.2	-99.2	515,135.47	762,154.08	32.414143°N	103.617767°W
7,000.0	3.62	245.98	6,996.5	-46.8	-105.0	515,132.90	762,148.31	32.414136°N	103.617786°W
7,100.0	3.62	245.98	7,096.3	-49.4	-110.8	515,130.33	762,142.53	32.414129°N	103.617805°W
7,136.8	3.62	245.98	7,133.0	-50.3	-112.9	515,129.38	762,140.41	32.414126°N	103.617812°W
Brushy Canyon									
7,200.0	3.62	245.98	7,196.1	-51.9	-116.6	515,127.76	762,136.76	32.414122°N	103.617824°W
7,300.0	3.62	245.98	7,295.9	-54.5	-122.3	515,125.18	762,130.99	32.414115°N	103.617843°W
7,400.0	3.62	245.98	7,395.7	-57.1	-128.1	515,122.61	762,125.21	32.414108°N	103.617861°W
7,500.0	3.62	245.98	7,495.5	-59.7	-133.9	515,120.04	762,119.44	32.414101°N	103.617880°W
7,600.0	3.62	245.98	7,595.3	-62.2	-139.7	515,117.47	762,113.67	32.414094°N	103.617899°W
7,700.0	3.62	245.98	7,695.1	-64.8	-145.4	515,114.90	762,107.89	32.414087°N	103.617918°W
7,800.0	3.62	245.98	7,794.9	-67.4	-151.2	515,112.32	762,102.12	32.414080°N	103.617936°W
7,900.0	3.62	245.98	7,894.7	-69.9	-157.0	515,109.75	762,096.35	32.414073°N	103.617955°W
8,000.0	3.62	245.98	7,994.5	-72.5	-162.8	515,107.18	762,090.57	32.414066°N	103.617974°W
8,100.0	3.62	245.98	8,094.3	-75.1	-168.5	515,104.61	762,084.80	32.414059°N	103.617993°W
8,200.0	3.62	245.98	8,194.1	-77.7	-174.3	515,102.03	762,079.02	32.414052°N	103.618011°W
8,300.0	3.62	245.98	8,293.9	-80.2	-180.1	515,099.46	762,073.25	32.414045°N	103.618030°W
8,400.0	3.62	245.98	8,393.7	-82.8	-185.8	515,096.89	762,067.48	32.414038°N	103.618049°W
8,500.0	3.62	245.98	8,493.5	-85.4	-191.6	515,094.32	762,061.70	32.414031°N	103.618068°W
8,600.0	3.62	245.98	8,593.3	-87.9	-197.4	515,091.74	762,055.93	32.414024°N	103.618086°W
8,655.8	3.62	245.98	8,649.0	-89.4	-200.6	515,090.31	762,052.71	32.414020°N	103.618097°W
Bone Spring Lime									
8,700.0	3.62	245.98	8,693.1	-90.5	-203.2	515,089.17	762,050.16	32.414017°N	103.618105°W
8,800.0	3.62	245.98	8,792.9	-93.1	-208.9	515,086.60	762,044.38	32.414010°N	103.618124°W
8,900.0	3.62	245.98	8,892.7	-95.7	-214.7	515,084.03	762,038.61	32.414003°N	103.618143°W
9,000.0	3.62	245.98	8,992.5	-98.2	-220.5	515,081.45	762,032.84	32.413996°N	103.618162°W

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Planning Report - Geographic

Database:	EDM 5000.16 Single User Db	**Local Co-ordinate Reference:**	Well Dagger SW 22-33-6 State Com 911H
Company:	Advance Energy Partners	**TVD Reference:**	WELL @ 3640.5usft (Original Well Elev)
Project:	Hat Mesa	**MD Reference:**	WELL @ 3640.5usft (Original Well Elev)
Site:	Dagger State	**North Reference:**	Grid
Well:	Dagger SW 22-33-6 State Com 911H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Dagger SW 22-33-6 State Com 911H		
Design:	Dagger SW 22-33-6 State Com 911H		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,100.0	3.62	245.98	9,092.3	-100.8	-226.3	515,078.88	762,027.06	32.413989°N	103.618180°W
9,200.0	3.62	245.98	9,192.1	-103.4	-232.0	515,076.31	762,021.29	32.413982°N	103.618199°W
9,300.0	3.62	245.98	9,291.9	-106.0	-237.8	515,073.74	762,015.51	32.413976°N	103.618218°W
9,400.0	3.62	245.98	9,391.7	-108.5	-243.6	515,071.16	762,009.74	32.413969°N	103.618237°W
9,500.0	3.62	245.98	9,491.5	-111.1	-249.4	515,068.59	762,003.97	32.413962°N	103.618255°W
9,600.0	3.62	245.98	9,591.3	-113.7	-255.1	515,066.02	761,998.19	32.413955°N	103.618274°W
9,700.0	3.62	245.98	9,691.1	-116.2	-260.9	515,063.45	761,992.42	32.413948°N	103.618293°W
9,800.0	3.62	245.98	9,790.9	-118.8	-266.7	515,060.87	761,986.65	32.413941°N	103.618312°W
9,840.2	3.62	245.98	9,831.0	-119.9	-269.0	515,059.84	761,984.33	32.413938°N	103.618319°W
First Bone Spring									
9,900.0	3.62	245.98	9,890.7	-121.4	-272.5	515,058.30	761,980.87	32.413934°N	103.618330°W
10,000.0	3.62	245.98	9,990.5	-124.0	-278.2	515,055.73	761,975.10	32.413927°N	103.618349°W
10,100.0	3.62	245.98	10,090.3	-126.5	-284.0	515,053.16	761,969.32	32.413920°N	103.618368°W
10,200.0	3.62	245.98	10,190.1	-129.1	-289.8	515,050.58	761,963.55	32.413913°N	103.618387°W
10,247.9	3.62	245.98	10,237.8	-130.3	-292.5	515,049.35	761,960.79	32.413910°N	103.618396°W
Start Drop -1.00									
10,300.0	3.10	245.98	10,289.9	-131.6	-295.3	515,048.11	761,957.99	32.413906°N	103.618405°W
10,400.0	2.10	245.98	10,389.8	-133.4	-299.5	515,046.26	761,953.85	32.413901°N	103.618418°W
10,439.2	1.71	245.98	10,429.0	-134.0	-300.7	515,045.73	761,952.65	32.413900°N	103.618422°W
Second Bone Spring									
10,500.0	1.10	245.98	10,489.8	-134.6	-302.0	515,045.12	761,951.29	32.413898°N	103.618427°W
10,600.0	0.10	245.98	10,589.7	-135.0	-303.0	515,044.69	761,950.33	32.413897°N	103.618430°W
10,610.3	0.00	0.00	10,600.0	-135.0	-303.0	515,044.69	761,950.32	32.413897°N	103.618430°W
Start 105.5 hold at 10610.3 MD									
10,700.0	0.00	0.00	10,689.7	-135.0	-303.0	515,044.69	761,950.32	32.413897°N	103.618430°W
10,715.8	0.00	0.00	10,705.5	-135.0	-303.0	515,044.69	761,950.32	32.413897°N	103.618430°W
KOP #2 - Start Build 12.00									
10,800.0	10.11	359.60	10,789.3	-127.6	-303.1	515,052.10	761,950.27	32.413917°N	103.618430°W
10,900.0	22.11	359.60	10,885.2	-99.9	-303.2	515,079.79	761,950.08	32.413993°N	103.618430°W
11,000.0	34.11	359.60	10,973.3	-52.9	-303.6	515,126.81	761,949.76	32.414123°N	103.618430°W
11,078.0	43.47	359.60	11,034.0	-4.1	-303.9	515,175.62	761,949.42	32.414257°N	103.618430°W
Third Carb									
11,100.0	46.11	359.60	11,049.6	11.4	-304.0	515,191.11	761,949.31	32.414299°N	103.618430°W
11,200.0	58.11	359.60	11,110.9	90.2	-304.6	515,269.88	761,948.77	32.414516°N	103.618430°W
11,300.0	70.11	359.60	11,154.5	180.0	-305.2	515,359.67	761,948.15	32.414763°N	103.618430°W
11,400.0	82.11	359.60	11,178.5	276.9	-305.8	515,456.57	761,947.48	32.415029°N	103.618430°W
11,465.8	90.00	359.60	11,183.0	342.5	-306.3	515,522.19	761,947.02	32.415209°N	103.618430°W
FTP - Start 12522.1 hold at 11465.8 MD - Dagger SW 22-33-6 State Com 911H FTP									
11,500.0	90.00	359.60	11,183.0	376.7	-306.5	515,556.36	761,946.79	32.415303°N	103.618430°W
11,600.0	90.00	359.60	11,183.0	476.7	-307.2	515,656.35	761,946.10	32.415578°N	103.618430°W
11,700.0	90.00	359.60	11,183.0	576.7	-307.9	515,756.35	761,945.40	32.415853°N	103.618430°W
11,800.0	90.00	359.60	11,183.0	676.7	-308.6	515,856.35	761,944.71	32.416128°N	103.618430°W
11,900.0	90.00	359.60	11,183.0	776.7	-309.3	515,956.35	761,944.02	32.416403°N	103.618430°W
12,000.0	90.00	359.60	11,183.0	876.7	-310.0	516,056.34	761,943.33	32.416678°N	103.618430°W
12,100.0	90.00	359.60	11,183.0	976.7	-310.7	516,156.34	761,942.64	32.416953°N	103.618431°W
12,200.0	90.00	359.60	11,183.0	1,076.6	-311.4	516,256.34	761,941.95	32.417227°N	103.618431°W
12,300.0	90.00	359.60	11,183.0	1,176.6	-312.1	516,356.34	761,941.26	32.417502°N	103.618431°W
12,400.0	90.00	359.60	11,183.0	1,276.6	-312.8	516,456.33	761,940.57	32.417777°N	103.618431°W
12,500.0	90.00	359.60	11,183.0	1,376.6	-313.4	516,556.33	761,939.88	32.418052°N	103.618431°W
12,600.0	90.00	359.60	11,183.0	1,476.6	-314.1	516,656.33	761,939.18	32.418327°N	103.618431°W
12,700.0	90.00	359.60	11,183.0	1,576.6	-314.8	516,756.33	761,938.49	32.418602°N	103.618431°W
12,800.0	90.00	359.60	11,183.0	1,676.6	-315.5	516,856.33	761,937.80	32.418877°N	103.618431°W
12,900.0	90.00	359.60	11,183.0	1,776.6	-316.2	516,956.32	761,937.11	32.419151°N	103.618431°W
13,000.0	90.00	359.60	11,183.0	1,876.6	-316.9	517,056.32	761,936.42	32.419426°N	103.618431°W

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Planning Report - Geographic

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Company:	Advance Energy Partners	**TVD Reference:**	WELL @ 3640.5usft (Original Well Elev)
Project:	Hat Mesa	**MD Reference:**	WELL @ 3640.5usft (Original Well Elev)
Site:	Dagger State	**North Reference:**	Grid
Well:	Dagger SW 22-33-6 State Com 911H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Dagger SW 22-33-6 State Com 911H		
Design:	Dagger SW 22-33-6 State Com 911H		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
13,100.0	90.00	359.60	11,183.0	1,976.6	-317.6	517,156.32	761,935.73	32.419701°N	103.618431°W
13,200.0	90.00	359.60	11,183.0	2,076.6	-318.3	517,256.32	761,935.04	32.419976°N	103.618431°W
13,300.0	90.00	359.60	11,183.0	2,176.6	-319.0	517,356.31	761,934.35	32.420251°N	103.618431°W
13,400.0	90.00	359.60	11,183.0	2,276.6	-319.7	517,456.31	761,933.66	32.420526°N	103.618431°W
13,500.0	90.00	359.60	11,183.0	2,376.6	-320.4	517,556.31	761,932.97	32.420801°N	103.618432°W
13,600.0	90.00	359.60	11,183.0	2,476.6	-321.0	517,656.31	761,932.27	32.421076°N	103.618432°W
13,700.0	90.00	359.60	11,183.0	2,576.6	-321.7	517,756.30	761,931.58	32.421350°N	103.618432°W
13,800.0	90.00	359.60	11,183.0	2,676.6	-322.4	517,856.30	761,930.89	32.421625°N	103.618432°W
13,900.0	90.00	359.60	11,183.0	2,776.6	-323.1	517,956.30	761,930.20	32.421900°N	103.618432°W
14,000.0	90.00	359.60	11,183.0	2,876.6	-323.8	518,056.30	761,929.51	32.422175°N	103.618432°W
14,100.0	90.00	359.60	11,183.0	2,976.6	-324.5	518,156.29	761,928.82	32.422450°N	103.618432°W
14,200.0	90.00	359.60	11,183.0	3,076.6	-325.2	518,256.29	761,928.13	32.422725°N	103.618432°W
14,300.0	90.00	359.60	11,183.0	3,176.6	-325.9	518,356.29	761,927.44	32.423000°N	103.618432°W
14,400.0	90.00	359.60	11,183.0	3,276.6	-326.6	518,456.29	761,926.75	32.423274°N	103.618432°W
14,500.0	90.00	359.60	11,183.0	3,376.6	-327.3	518,556.28	761,926.05	32.423549°N	103.618432°W
14,600.0	90.00	359.60	11,183.0	3,476.6	-328.0	518,656.28	761,925.36	32.423824°N	103.618432°W
14,700.0	90.00	359.60	11,183.0	3,576.6	-328.7	518,756.28	761,924.67	32.424099°N	103.618432°W
14,800.0	90.00	359.60	11,183.0	3,676.6	-329.3	518,856.28	761,923.98	32.424374°N	103.618432°W
14,900.0	90.00	359.60	11,183.0	3,776.6	-330.0	518,956.27	761,923.29	32.424649°N	103.618433°W
15,000.0	90.00	359.60	11,183.0	3,876.6	-330.7	519,056.27	761,922.60	32.424924°N	103.618433°W
15,100.0	90.00	359.60	11,183.0	3,976.6	-331.4	519,156.27	761,921.91	32.425199°N	103.618433°W
15,200.0	90.00	359.60	11,183.0	4,076.6	-332.1	519,256.27	761,921.22	32.425473°N	103.618433°W
15,300.0	90.00	359.60	11,183.0	4,176.6	-332.8	519,356.27	761,920.53	32.425748°N	103.618433°W
15,400.0	90.00	359.60	11,183.0	4,276.6	-333.5	519,456.26	761,919.83	32.426023°N	103.618433°W
15,500.0	90.00	359.60	11,183.0	4,376.6	-334.2	519,556.26	761,919.14	32.426298°N	103.618433°W
15,600.0	90.00	359.60	11,183.0	4,476.6	-334.9	519,656.26	761,918.45	32.426573°N	103.618433°W
15,700.0	90.00	359.60	11,183.0	4,576.6	-335.6	519,756.26	761,917.76	32.426848°N	103.618433°W
15,800.0	90.00	359.60	11,183.0	4,676.6	-336.3	519,856.25	761,917.07	32.427123°N	103.618433°W
15,900.0	90.00	359.60	11,183.0	4,776.6	-336.9	519,956.25	761,916.38	32.427397°N	103.618433°W
16,000.0	90.00	359.60	11,183.0	4,876.6	-337.6	520,056.25	761,915.69	32.427672°N	103.618433°W
16,100.0	90.00	359.60	11,183.0	4,976.6	-338.3	520,156.25	761,915.00	32.427947°N	103.618433°W
16,200.0	90.00	359.60	11,183.0	5,076.6	-339.0	520,256.24	761,914.31	32.428222°N	103.618433°W
16,300.0	90.00	359.60	11,183.0	5,176.6	-339.7	520,356.24	761,913.61	32.428497°N	103.618434°W
16,400.0	90.00	359.60	11,183.0	5,276.5	-340.4	520,456.24	761,912.92	32.428772°N	103.618434°W
16,500.0	90.00	359.60	11,183.0	5,376.5	-341.1	520,556.24	761,912.23	32.429047°N	103.618434°W
16,600.0	90.00	359.60	11,183.0	5,476.5	-341.8	520,656.23	761,911.54	32.429322°N	103.618434°W
16,700.0	90.00	359.60	11,183.0	5,576.5	-342.5	520,756.23	761,910.85	32.429596°N	103.618434°W
16,800.0	90.00	359.60	11,183.0	5,676.5	-343.2	520,856.23	761,910.16	32.429871°N	103.618434°W
16,900.0	90.00	359.60	11,183.0	5,776.5	-343.9	520,956.23	761,909.47	32.430146°N	103.618434°W
17,000.0	90.00	359.60	11,183.0	5,876.5	-344.5	521,056.22	761,908.78	32.430421°N	103.618434°W
17,100.0	90.00	359.60	11,183.0	5,976.5	-345.2	521,156.22	761,908.09	32.430696°N	103.618434°W
17,200.0	90.00	359.60	11,183.0	6,076.5	-345.9	521,256.22	761,907.40	32.430971°N	103.618434°W
17,300.0	90.00	359.60	11,183.0	6,176.5	-346.6	521,356.22	761,906.70	32.431246°N	103.618434°W
17,400.0	90.00	359.60	11,183.0	6,276.5	-347.3	521,456.22	761,906.01	32.431520°N	103.618434°W
17,500.0	90.00	359.60	11,183.0	6,376.5	-348.0	521,556.21	761,905.32	32.431795°N	103.618434°W
17,600.0	90.00	359.60	11,183.0	6,476.5	-348.7	521,656.21	761,904.63	32.432070°N	103.618434°W
17,700.0	90.00	359.60	11,183.0	6,576.5	-349.4	521,756.21	761,903.94	32.432345°N	103.618435°W
17,800.0	90.00	359.60	11,183.0	6,676.5	-350.1	521,856.21	761,903.25	32.432620°N	103.618435°W
17,900.0	90.00	359.60	11,183.0	6,776.5	-350.8	521,956.20	761,902.56	32.432895°N	103.618435°W
18,000.0	90.00	359.60	11,183.0	6,876.5	-351.5	522,056.20	761,901.87	32.433170°N	103.618435°W
18,100.0	90.00	359.60	11,183.0	6,976.5	-352.1	522,156.20	761,901.18	32.433445°N	103.618435°W
18,200.0	90.00	359.60	11,183.0	7,076.5	-352.8	522,256.20	761,900.48	32.433719°N	103.618435°W
18,300.0	90.00	359.60	11,183.0	7,176.5	-353.5	522,356.19	761,899.79	32.433994°N	103.618435°W
18,400.0	90.00	359.60	11,183.0	7,276.5	-354.2	522,456.19	761,899.10	32.434269°N	103.618435°W
18,500.0	90.00	359.60	11,183.0	7,376.5	-354.9	522,556.19	761,898.41	32.434544°N	103.618435°W

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Planning Report - Geographic

Database:	EDM 5000.16 Single User Db	**Local Co-ordinate Reference:**	Well Dagger SW 22-33-6 State Com 911H
Company:	Advance Energy Partners	**TVD Reference:**	WELL @ 3640.5usft (Original Well Elev)
Project:	Hat Mesa	**MD Reference:**	WELL @ 3640.5usft (Original Well Elev)
Site:	Dagger State	**North Reference:**	Grid
Well:	Dagger SW 22-33-6 State Com 911H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Dagger SW 22-33-6 State Com 911H		
Design:	Dagger SW 22-33-6 State Com 911H		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
18,600.0	90.00	359.60	11,183.0	7,476.5	-355.6	522,656.19	761,897.72	32.434819°N	103.618435°W
18,700.0	90.00	359.60	11,183.0	7,576.5	-356.3	522,756.18	761,897.03	32.435094°N	103.618435°W
18,800.0	90.00	359.60	11,183.0	7,676.5	-357.0	522,856.18	761,896.34	32.435369°N	103.618435°W
18,900.0	90.00	359.60	11,183.0	7,776.5	-357.7	522,956.18	761,895.65	32.435643°N	103.618435°W
19,000.0	90.00	359.60	11,183.0	7,876.5	-358.4	523,056.18	761,894.96	32.435918°N	103.618435°W
19,100.0	90.00	359.60	11,183.0	7,976.5	-359.1	523,156.17	761,894.26	32.436193°N	103.618436°W
19,200.0	90.00	359.60	11,183.0	8,076.5	-359.7	523,256.17	761,893.57	32.436468°N	103.618436°W
19,300.0	90.00	359.60	11,183.0	8,176.5	-360.4	523,356.17	761,892.88	32.436743°N	103.618436°W
19,400.0	90.00	359.60	11,183.0	8,276.5	-361.1	523,456.17	761,892.19	32.437018°N	103.618436°W
19,500.0	90.00	359.60	11,183.0	8,376.5	-361.8	523,556.17	761,891.50	32.437293°N	103.618436°W
19,600.0	90.00	359.60	11,183.0	8,476.5	-362.5	523,656.16	761,890.81	32.437568°N	103.618436°W
19,700.0	90.00	359.60	11,183.0	8,576.5	-363.2	523,756.16	761,890.12	32.437842°N	103.618436°W
19,800.0	90.00	359.60	11,183.0	8,676.5	-363.9	523,856.16	761,889.43	32.438117°N	103.618436°W
19,900.0	90.00	359.60	11,183.0	8,776.5	-364.6	523,956.16	761,888.74	32.438392°N	103.618436°W
20,000.0	90.00	359.60	11,183.0	8,876.5	-365.3	524,056.15	761,888.04	32.438667°N	103.618436°W
20,100.0	90.00	359.60	11,183.0	8,976.5	-366.0	524,156.15	761,887.35	32.438942°N	103.618436°W
20,200.0	90.00	359.60	11,183.0	9,076.5	-366.7	524,256.15	761,886.66	32.439217°N	103.618436°W
20,300.0	90.00	359.60	11,183.0	9,176.5	-367.4	524,356.15	761,885.97	32.439492°N	103.618436°W
20,400.0	90.00	359.60	11,183.0	9,276.5	-368.0	524,456.14	761,885.28	32.439766°N	103.618436°W
20,500.0	90.00	359.60	11,183.0	9,376.5	-368.7	524,556.14	761,884.59	32.440041°N	103.618436°W
20,600.0	90.00	359.60	11,183.0	9,476.4	-369.4	524,656.14	761,883.90	32.440316°N	103.618437°W
20,700.0	90.00	359.60	11,183.0	9,576.4	-370.1	524,756.14	761,883.21	32.440591°N	103.618437°W
20,800.0	90.00	359.60	11,183.0	9,676.4	-370.8	524,856.13	761,882.52	32.440866°N	103.618437°W
20,900.0	90.00	359.60	11,183.0	9,776.4	-371.5	524,956.13	761,881.82	32.441141°N	103.618437°W
21,000.0	90.00	359.60	11,183.0	9,876.4	-372.2	525,056.13	761,881.13	32.441416°N	103.618437°W
21,100.0	90.00	359.60	11,183.0	9,976.4	-372.9	525,156.13	761,880.44	32.441691°N	103.618437°W
21,200.0	90.00	359.60	11,183.0	10,076.4	-373.6	525,256.12	761,879.75	32.441965°N	103.618437°W
21,300.0	90.00	359.60	11,183.0	10,176.4	-374.3	525,356.12	761,879.06	32.442240°N	103.618437°W
21,400.0	90.00	359.60	11,183.0	10,276.4	-375.0	525,456.12	761,878.37	32.442515°N	103.618437°W
21,500.0	90.00	359.60	11,183.0	10,376.4	-375.6	525,556.12	761,877.68	32.442790°N	103.618437°W
21,600.0	90.00	359.60	11,183.0	10,476.4	-376.3	525,656.12	761,876.99	32.443065°N	103.618437°W
21,700.0	90.00	359.60	11,183.0	10,576.4	-377.0	525,756.11	761,876.30	32.443340°N	103.618437°W
21,800.0	90.00	359.60	11,183.0	10,676.4	-377.7	525,856.11	761,875.61	32.443615°N	103.618437°W
21,900.0	90.00	359.60	11,183.0	10,776.4	-378.4	525,956.11	761,874.91	32.443889°N	103.618437°W
22,000.0	90.00	359.60	11,183.0	10,876.4	-379.1	526,056.11	761,874.22	32.444164°N	103.618438°W
22,100.0	90.00	359.60	11,183.0	10,976.4	-379.8	526,156.10	761,873.53	32.444439°N	103.618438°W
22,200.0	90.00	359.60	11,183.0	11,076.4	-380.5	526,256.10	761,872.84	32.444714°N	103.618438°W
22,300.0	90.00	359.60	11,183.0	11,176.4	-381.2	526,356.10	761,872.15	32.444989°N	103.618438°W
22,400.0	90.00	359.60	11,183.0	11,276.4	-381.9	526,456.10	761,871.46	32.445264°N	103.618438°W
22,500.0	90.00	359.60	11,183.0	11,376.4	-382.6	526,556.09	761,870.77	32.445539°N	103.618438°W
22,600.0	90.00	359.60	11,183.0	11,476.4	-383.2	526,656.09	761,870.08	32.445813°N	103.618438°W
22,700.0	90.00	359.60	11,183.0	11,576.4	-383.9	526,756.09	761,869.39	32.446088°N	103.618438°W
22,800.0	90.00	359.60	11,183.0	11,676.4	-384.6	526,856.09	761,868.69	32.446363°N	103.618438°W
22,900.0	90.00	359.60	11,183.0	11,776.4	-385.3	526,956.08	761,868.00	32.446638°N	103.618438°W
23,000.0	90.00	359.60	11,183.0	11,876.4	-386.0	527,056.08	761,867.31	32.446913°N	103.618438°W
23,100.0	90.00	359.60	11,183.0	11,976.4	-386.7	527,156.08	761,866.62	32.447188°N	103.618438°W
23,200.0	90.00	359.60	11,183.0	12,076.4	-387.4	527,256.08	761,865.93	32.447463°N	103.618438°W
23,300.0	90.00	359.60	11,183.0	12,176.4	-388.1	527,356.07	761,865.24	32.447738°N	103.618438°W
23,400.0	90.00	359.60	11,183.0	12,276.4	-388.8	527,456.07	761,864.55	32.448012°N	103.618439°W
23,500.0	90.00	359.60	11,183.0	12,376.4	-389.5	527,556.07	761,863.86	32.448287°N	103.618439°W
23,600.0	90.00	359.60	11,183.0	12,476.4	-390.2	527,656.07	761,863.17	32.448562°N	103.618439°W
23,700.0	90.00	359.60	11,183.0	12,576.4	-390.8	527,756.06	761,862.47	32.448837°N	103.618439°W
23,800.0	90.00	359.60	11,183.0	12,676.4	-391.5	527,856.06	761,861.78	32.449112°N	103.618439°W
23,900.0	90.00	359.60	11,183.0	12,776.4	-392.2	527,956.06	761,861.09	32.449387°N	103.618439°W

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Planning Report - Geographic

Database:	EDM 5000.16 Single User Db	**Local Co-ordinate Reference:**	Well Dagger SW 22-33-6 State Com 911H
Company:	Advance Energy Partners	**TVD Reference:**	WELL @ 3640.5usft (Original Well Elev)
Project:	Hat Mesa	**MD Reference:**	WELL @ 3640.5usft (Original Well Elev)
Site:	Dagger State	**North Reference:**	Grid
Well:	Dagger SW 22-33-6 State Com 911H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Dagger SW 22-33-6 State Com 911H		
Design:	Dagger SW 22-33-6 State Com 911H		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
23,988.0	90.00	359.60	11,183.0	12,864.4	-392.8	528,044.04	761,860.48	32.449629°N	103.618439°W
LTP - Start DLS 0.19 TFO 90.00 - Dagger SW 22-33-6 State Com 911H LTP									
24,000.0	90.00	359.63	11,183.0	12,876.4	-392.9	528,056.06	761,860.40	32.449662°N	103.618439°W
24,038.0	90.00	359.70	11,183.0	12,914.3	-393.1	528,094.03	761,860.17	32.449766°N	103.618439°W
Dagger SW 22-33-6 State Com 911H BHL									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Dagger SW 22-33-6 Sta - plan hits target center - Point	0.00	0.00	11,183.0	342.5	-306.3	515,522.19	761,947.02	32.415209°N	103.618430°W
Dagger SW 22-33-6 Sta - plan hits target center - Point	0.00	0.00	11,183.0	12,864.3	-392.8	528,044.04	761,860.48	32.449629°N	103.618439°W
Dagger SW 22-33-6 Sta - plan hits target center - Point	0.00	0.00	11,183.0	12,914.3	-393.1	528,094.03	761,860.17	32.449766°N	103.618439°W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,003.0	1,003.0	Rustler			
1,437.0	1,437.0	Salado			
3,183.0	3,183.0	Tansill			
3,552.0	3,552.0	Capitan			
4,902.0	4,902.0	Bell Canyon			
7,136.8	7,133.0	Brushy Canyon			
8,655.8	8,649.0	Bone Spring Lime			
9,840.2	9,831.0	First Bone Spring			
10,439.2	10,429.0	Second Bone Spring			
11,078.0	11,034.0	Third Carb			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
5,000.0	5,000.0	0.0	0.0	KOP - Start Build 1.00
5,362.4	5,362.2	-4.7	-10.5	Start 4885.5 hold at 5362.4 MD
10,247.9	10,237.8	-130.3	-292.5	Start Drop -1.00
10,610.3	10,600.0	-135.0	-303.0	Start 105.5 hold at 10610.3 MD
10,715.8	10,705.5	-135.0	-303.0	KOP #2 - Start Build 12.00
11,465.8	11,183.0	342.5	-306.3	FTP - Start 12522.1 hold at 11465.8 MD
23,988.0	11,183.0	12,864.3	-392.8	LTP - Start DLS 0.19 TFO 90.00
24,038.0	11,183.0	12,914.3	-393.1	TD at 24038.0

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: _Advance Energy Partners Hat Mesa, LLC___ **OGRID:** __372417_____ **Date:** __09/08/2022__

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: _____

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
Dagger SW 22-33-6 State Com 071H	30-025-	LOT 7-6-22S-33E	230' FSL & 668' FWL	1107	2098	7167
Dagger SW 22-33-6 State Com 091H	30-025-	LOT 7-6-22S-33E	230' FSL & 767' FWL	1284	1926	6999
Dagger SW 22-33-6 State Com 112H	30-025-	LOT 7-6-22S-33E	230' FSL & 800' FWL	1084	2656	6781
Dagger SW 22-33-6 State Com 821H	30-025-	LOT 7-6-22S-33E	230' FSL & 700' FWL	1413	1497	5450
Dagger SW 22-33-6 State Com 911H	30-025-	LOT 7-6-22S-33E	230' FSL & 733' FWL	1555	1911	3882
Dagger SW 22-33-6 State Com 922H	30-025-	LOT 7-6-22S-33E	230' FSL & 832' FWL	1555	1911	3882

IV. Central Delivery Point Name: _____ [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
Dagger SW 22-33-6 State Com 071H	30-025-	05/14/2024	06/05/2024	08/22/2024	09/30/2024	10/03/2024
Dagger SW 22-33-6 State Com 091H	30-025-	06/07/2024	06/29/2024	08/22/2024	09/30/2024	10/03/2024
Dagger SW 22-33-6 State Com 112H	30-025-	11/28/2023	01/19/2024	08/22/2024	09/30/2024	10/03/2024
Dagger SW 22-33-6 State Com 821H	30-025-	07/01/2024	07/23/2024	08/22/2024	09/30/2024	10/03/2024
Dagger SW 22-33-6 State Com 911H	30-025-	07/25/2024	08/16/2024	08/22/2024	09/30/2024	10/03/2024
Dagger SW 22-33-6 State Com 922H	30-025-	04/18/2024	05/10/2024	08/22/2024	09/30/2024	10/03/2024

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: Cesca Yu
Printed Name: Cesca Yu
Title: Engineer
E-mail Address: cyu@ameredev.com
Date: 09/08/2022
Phone: 512-775-1417

OIL CONSERVATION DIVISION **(Only applicable when submitted as a standalone form)**
Approved By:
Title:
Approval Date:
Conditions of Approval:

Natural Gas Management Plan

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

• Separation equipment is sized to allow for retention time and velocity to adequately separate oil, gas, and water at anticipated peak rates.
• All central tank battery equipment is designed to efficiently capture the remaining gas from the liquid phase.
• Valves and meters are designed to service without flow interruption or venting of gas.

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.

19.15.27.8 (A)

Advanced Energy Partners field operations are designed with the goal of minimizing flaring and preventing venting of natural gas. If capturing the gas is not possible then the gas is combusted/flared using properly sized flares or combustors in accordance with state air permit rules.

19.15.27.8 (B) Venting and Flaring during drilling operations

• A properly-sized flare stack 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. Venting will only occur if there is an equipment malfunction and/or to avoid risk of an immediate and substantial adverse impact on safety, public health, or the environment.

19.15.27.8 (C) Venting and Flaring during completions or recompletions operations.

• During all phases of flowback, wells will flow through a sand separator, or other appropriate flowback separation equipment, and the well stream will be directed to a central tank battery (CTB) through properly sized flowlines
• The CTB will have properly sized separation equipment for maximum anticipated flowrates
• Multiple stages of separation will be used to separate gas from liquids. All gas will be routed to a sales outlet. Fluids will be routed to tanks equipped with a closed loop system that will recover any residual gas from the tanks and route such gas to a sales outlet.

19.15.27.8 (D) Venting and Flaring during production operations.

• During production, the well stream will be routed to the CTB where multiple stages of separation will separate gas from liquids. All gas will be routed to a sales outlet. Fluids will be routed to tanks with a closed

loop system that will recover any residual gas from the tanks and route such gas to a sales outlet, minimizing tank emissions.
• Flares are equipped with auto-ignition systems and continuous pilot operations.
• Automatic gauging equipment is installed on all tanks.

19.15.27.8 (E) Performance Standards

• Production equipment will be designed to handle maximum anticipated rates and pressure.
• Automatic gauging equipment is installed on all tanks to minimize venting
• All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
•Flares are equipped with continuous pilots and auto-ignitors along with remote monitoring of the pilot status
• Weekly AVOs and monthly LDAR inspections will be performed on all wells and facilities that produce more than 60 Mcfd.
• Gas/H2S detectors will be installed throughout the facilities and wellheads to detect leaks and enable timely repairs.

19.15.27.8 (F) Measurement or estimation of vented and flared natural gas

• All high pressure flared gas is measured by equipment conforming to API 14.10.
• No meter bypasses are installed.
• When metering is not practical due to low pressure/low rate, the vented or flared volume will be estimated through flare flow curves with the assistance of air emissions consultants, as necessary.

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

• Advanced Energy Partners will use best management practices to vent as minimally as possible during well intervention operations and downhole well maintenance
• All natural gas is routed into the gas gathering system and directed to one of Advanced Energy Partners multiple gas sales outlets.
• All venting events will be recorded and all start-up, shutdown, maintenance logs will be kept for control equipment
• All control equipment will be maintained to provide highest run-time possible
• All procedures are drafted to keep venting and flaring to the absolute minimum