<u>District I</u> 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

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 325790

Operator Na	me and Address					-ENTER, DEEPE				2. OGRID			
	VANCE ENERGY	PARTNERS HA	TMESA LLC							2. 002	372417		
	90 Westheimer F									3. API Nu	*		
	uston, TX 77077	,									30-025-50694	1	
4. Property Co	de		5. Property N	ame						6. Well N	0.		
319	599		DA	GGER LAKE	5 STATE COM						833H		
					7. Sur	face Location							
UL - Lot	Section	Township	Ran	ge	Lot Idn	Feet From	N/S Line		Feet From		E/W Line	County	
В	32	2	1S	33E	В	372		N	2	500	E	_	Lea
					8. Proposed I	Bottom Hole Location	on						
UL - Lot	Section	Township	Range	1	Lot Idn	Feet From	N/S Line		Feet From		E/W Line	County	
G	5	22	S	33E	G	2690		S	2	308	E		Lea
					9. Po	ol Information							
LEGG;BONE	SPRING									37870			
•					A al aliti a	I Well Information				· L			
11. Work Type		12. Well Type		13. Cable/R		ii vveii information	144.14	ease Typ		15 Craun	d Lavel Flavetion		
	w Well	OIL		13. Cable/N	otary		14. L		ate	15. Ground Level Elevation 3722			
16. Multiple		17. Proposed D	epth	18. Formation	on		19. C	ontracto	r	20. Spud Date			
N		186	•		nd Bone Spring	Sand				3/15/2023			
Depth to Groui	nd water	1		Distance from	m nearest fresh wa	ter well	ı			Distance to	o nearest surface	water	
We will be	using a closed-lo	op system in li	ieu of lined p	its									
				2.	1. Proposed Cas	sing and Cement Pr	ogram						
Type	Hole Size	Casin	g Size		ng Weight/ft	Setting D			Sacks of	Cement		Estimated 1	ОС
Surf	17.5	13.	375		54.5	1655	;		127	'5		0	
				40.5 3323			389						
Int1	12.25	10	.75		40.5	3323	3		389	9		0	

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1655	1275	0
Int1	12.25	10.75	40.5	3323	389	0
Int2	9.875	7.625	29.7	5274	789	0
Prod	6.75	5.5	20	18616	596	0

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

	22.1.10p0000 2.0.10000		
Туре	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	TBD

knowledge and be I further certify I I	elief.	true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVAT	ION DIVISION	
Signature:						
Printed Name:	Electronically filed by Eileen M K	osakowski	Approved By:	Paul F Kautz		
Title:			Title:	Geologist		
Email Address:	ekosakowski@advanceenergypa	artners.com	Approved Date:	10/5/2022	Expiration Date: 10/5/2024	
Date:	9/22/2022	Phone: 832-672-4604	Conditions of App	roval Attached		

District I

1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

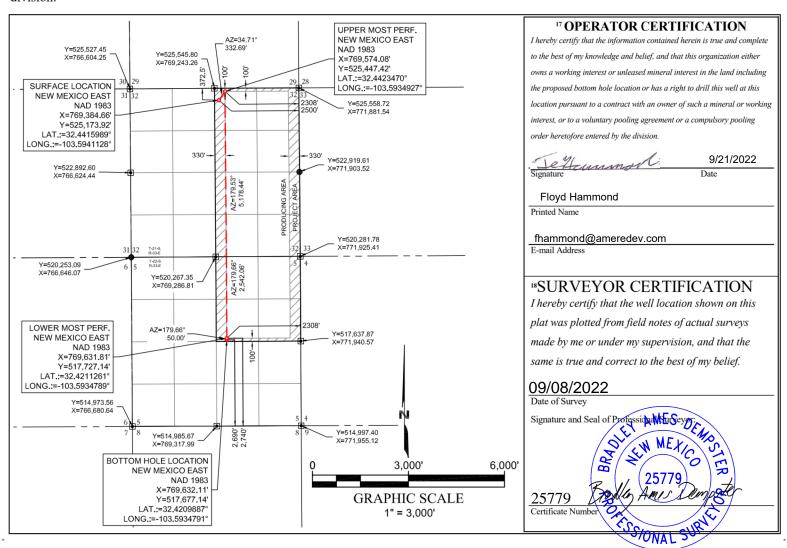
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code	³ Pool Name				
30-025-		97895	WC-025 G-08 S213304D; BONE SPRING	G			
⁴ Property Code		⁵ Pr	operty Name	⁶ Well Number			
319599		Dagger L	Lake 5 State Com #833H				
⁷ OGRID No.		8 O _I	Operator Name ⁹ Elevation				
372417		ADVANCE ENERGY	PARTNERS HAT MESA LLC	3,722.22'			

¹⁰ Surface Location

				~					
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
32	21-S	33-E	-	372.5'	NORTH	2,500'	EAST	LEA	
¹¹ Bottom Hole Location If Different From Surface									
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
5	22-S	33-E		2,690'	SOUTH	2,308'	EAST	LEA	
13 Joint or	r Infill 14 (Consolidation	Code 15 Or	der No.					
		С							
	32 Section 5	Section Township 5 22-S	32 21-S 33-E 11 Bo Section Township Range 5 22-S 33-E 13 Joint or Infill 14 Consolidation	32 21-S 33-E	32 21-S 33-E 372.5' 11 Bottom Hole Location If	32 21-S 33-E 372.5' NORTH 11 Bottom Hole Location If Different From Section Township Range Lot Idn Feet from the North/South line 5 22-S 33-E 2,690' SOUTH 13 Joint or Infill 14 Consolidation Code 15 Order No.	32 21-S 33-E 372.5' NORTH 2,500'	32 21-S 33-E 372.5' NORTH 2,500' EAST	

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.



<u>District I</u> 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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form APD Conditions

Permit 325790

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
ADVANCE ENERGY PARTNERS HAT MESA, LLC [372417]	30-025-50694
11490 Westheimer Rd., Ste 950	Well:
Houston, TX 77077	DAGGER LAKE 5 STATE COM #833H

OCD	Condition
Reviewer	
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 Lake 5 State Com - Pad C Dagger Lake 5 State Com 833H

Dagger Lake 5 State Com 833H

Plan: Dagger Lake 5 State Com 833H

Standard Planning Report - Geographic

15 September, 2022

Planning Report - Geographic

EDM 5000.16 Single User Db Database: Local Co-ordinate Reference: Company: Advance Energy Partners TVD Reference: Project: Hat Mesa MD Reference: Dagger Lake 5 State Com - Pad C Site: North Reference: Well: Dagger Lake 5 State Com 833H Survey Calculation Method: Wellbore: Dagger Lake 5 State Com 833H Dagger Lake 5 State Com 833H Design:

Well Dagger Lake 5 State Com 833H WELL @ 3754.5usft (Original Well Elev) WELL @ 3754.5usft (Original Well Elev)

Minimum Curvature

Project Hat Mesa, Lea County, NM

US State Plane 1983 Map System: North American Datum 1983 Geo Datum:

System Datum: Mean Sea Level

Map Zone: New Mexico Eastern Zone

Dagger Lake 5 State Com - Pad C Site 525,234.09 usft Northing: Site Position: Latitude: 32.441764°N 769,384.16 usft 103.594113°W Lat/Long Easting: From: Longitude: Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 "

Well Dagger Lake 5 State Com 833H 32.441599°N **Well Position** +N/-S 0.0 usft Northing: 525,173.91 usft Latitude: +E/-W 0.0 usft Easting: 769,384.67 usft Longitude: 103.594113°W Wellhead Elevation: Ground Level: **Position Uncertainty** 0.0 usft usft 3,722.0 usft **Grid Convergence:** 0.40 °

Dagger Lake 5 State Com 833H Wellbore Declination Magnetics **Model Name** Sample Date **Dip Angle** Field Strength (nT) (°) (°) 47.527.35916886 IGRF2015 8/26/2022 6.41 60.19

Design Dagger Lake 5 State Com 833H Audit Notes: Version: Phase: **PROTOTYPE** Tie On Depth: 0.0 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 0.0 0.0 178.11

Plan Survey Tool Program 9/15/2022 **Depth From** Depth To (usft) Survey (Wellbore) **Tool Name** Remarks (usft) 1 0.0 18,616.5 Dagger Lake 5 State Com 833H MWD+HRGM OWSG MWD + HRGM

Planning Report - Geographic

Database: EDM 5000.16 Single User Db Company: Advance Energy Partners

Project: Hat Mesa

Site:Dagger Lake 5 State Com - Pad CWell:Dagger Lake 5 State Com 833HWellbore:Dagger Lake 5 State Com 833HDesign:Dagger Lake 5 State Com 833H

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Dagger Lake 5 State Com 833H WELL @ 3754.5usft (Original Well Elev) WELL @ 3754.5usft (Original Well Elev) Grid

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	
5,372.1	3.72	35.42	5,371.9	9.8	7.0	1.00	1.00	0.00	35.42	
10,104.4	3.72	35.42	10,094.1	260.2	185.0	0.00	0.00	0.00	0.00	
10,476.5	0.00	0.00	10,466.0	270.0	192.0	1.00	-1.00	0.00	180.00	
10,577.0	0.00	0.00	10,566.5	270.0	192.0	0.00	0.00	0.00	0.00	
11,327.0	90.00	179.59	11,044.0	-207.5	195.4	12.00	12.00	0.00	179.59	
11,327.1	90.00	179.59	11,044.0	-207.5	195.4	0.00	0.00	0.00	0.00	DLN 5 State Com 833
18,566.5	90.00	179.59	11,044.0	-7,446.8	247.1	0.00	0.00	0.00	0.00	DLN 5 State Com 833
18,616.5	90.00	179.76	11,044.0	-7,496.8	247.4	0.33	0.00	0.33	90.00	DLN 5 State Com 833

Planning Report - Geographic

Database: EDM 5000.16 Single User Db Company: Advance Energy Partners

Project: Hat Mesa

Site:Dagger Lake 5 State Com - Pad CWell:Dagger Lake 5 State Com 833HWellbore:Dagger Lake 5 State Com 833HDesign:Dagger Lake 5 State Com 833H

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Dagger Lake 5 State Com 833H WELL @ 3754.5usft (Original Well Elev) WELL @ 3754.5usft (Original Well Elev)

Grid

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	525,173.91	769,384.67	32.441599°N	103.594113°W
100.0	0.00	0.00	100.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
200.0	0.00	0.00	200.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
300.0	0.00	0.00	300.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
400.0	0.00	0.00	400.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
500.0	0.00	0.00	500.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
600.0	0.00	0.00	600.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
700.0	0.00	0.00	700.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
800.0	0.00	0.00	800.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
900.0	0.00	0.00	900.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
1,200.0 1,300.0	0.00 0.00	0.00 0.00	1,200.0 1,300.0	0.0 0.0	0.0 0.0	525,173.91 525,173.91	769,384.67 769,384.67	32.441599°N 32.441599°N	103.594113°W 103.594113°W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	525,173.91	769,384.67	32.441599 N 32.441599°N	103.594113°W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	525,173.91	769,384.67	32.441599 N 32.441599°N	103.594113°W
1,530.0	0.00	0.00	1,530.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
	0.00	0.00	1,000.0	0.0	0.0	323,173.91	103,304.01	32.44 1333 IV	103.334113 W
Rustler 1,600.0	0.00	0.00	1,600.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
1,964.0	0.00	0.00	1,964.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
Salado	0.00	0.00	1,001.0	0.0	0.0	020,170.01	700,001.01	02.11100011	100.001110 11
2,000.0	0.00	0.00	2,000.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
2,100.0	0.00	0.00	2,100.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
2,200.0	0.00	0.00	2,200.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
2,300.0	0.00	0.00	2,300.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
2,400.0	0.00	0.00	2,400.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
2,500.0	0.00	0.00	2,500.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
2,600.0	0.00	0.00	2,600.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
2,700.0	0.00	0.00	2,700.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
2,800.0	0.00	0.00	2,800.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
2,900.0	0.00	0.00	2,900.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
3,000.0	0.00	0.00	3,000.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
3,100.0	0.00	0.00	3,100.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
3,198.0	0.00	0.00	3,198.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
Tansill									
3,200.0	0.00	0.00	3,200.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
3,300.0	0.00	0.00	3,300.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
3,400.0	0.00	0.00	3,400.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
3,489.0	0.00	0.00	3,489.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
Capitan									
3,500.0	0.00	0.00	3,500.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
3,600.0	0.00	0.00	3,600.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
3,700.0	0.00	0.00	3,700.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
3,800.0	0.00	0.00	3,800.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
3,900.0	0.00	0.00	3,900.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
4,000.0	0.00	0.00	4,000.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
4,100.0	0.00	0.00	4,100.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
4,200.0	0.00	0.00	4,200.0	0.0	0.0	525,173.91 525,173.91	769,384.67	32.441599°N	103.594113°W
4,300.0	0.00	0.00	4,300.0	0.0	0.0	525,173.91 525,173.91	769,384.67	32.441599°N	103.594113°W
4,400.0	0.00	0.00	4,400.0 4,500.0	0.0	0.0 0.0	525,173.91 525,173.91	769,384.67	32.441599°N	103.594113°W
4,500.0	0.00	0.00	4,500.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W

Planning Report - Geographic

Database: EDM 5000.16 Single User Db Company: Advance Energy Partners

Project: Hat Mesa

Site:Dagger Lake 5 State Com - Pad CWell:Dagger Lake 5 State Com 833HWellbore:Dagger Lake 5 State Com 833HDesign:Dagger Lake 5 State Com 833H

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Dagger Lake 5 State Com 833H WELL @ 3754.5usft (Original Well Elev) WELL @ 3754.5usft (Original Well Elev)

Grid

Planned Su	urvey								
Measu Depti (usft	h Inclination	on Azimutl (°)	Vertical h Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4.6	300.0 0	.00 0.	00 4,600.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
			.00 4,700.0		0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
			.00 4,800.0		0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
4,9	900.0 0	.00 0.	00 4,900.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
5,0	0.000	.00 0.	5,000.0	0.0	0.0	525,173.91	769,384.67	32.441599°N	103.594113°W
KO	P - Start Build	1.00							
5,1	100.0 1	.00 35.	42 5,100.0		0.5	525,174.62	769,385.17	32.441601°N	103.594111°W
5,1	199.0 1	.99 35.	42 5,199.0	2.8	2.0	525,176.73	769,386.67	32.441607°N	103.594107°W
Bell	I Canyon								
5,2		.00 35.			2.0	525,176.76	769,386.69	32.441607°N	103.594106°W
		.00 35.			4.6	525,180.31	769,389.22	32.441616°N	103.594098°W
5,3	372.1 3	.72 35.	42 5,371.9	9.8	7.0	525,183.76	769,391.67	32.441626°N	103.594090°W
	rt 4732.2 hold a								
		.72 35.	,		8.0	525,185.23	769,392.71	32.441630°N	103.594087°W
		.72 35.			11.8	525,190.52	769,396.48	32.441644°N	103.594074°W
		.72 35.	,		15.6	525,195.81	769,400.24	32.441659°N	103.594062°W
		.72 35.			19.3	525,201.10	769,404.00	32.441673°N	103.594050°W
		.72 35.	,		23.1	525,206.39	769,407.76	32.441688°N	103.594037°W
		.72 35.			26.9	525,211.68	769,411.52	32.441702°N	103.594025°W
		.72 35. .72 35.			30.6 34.4	525,216.97	769,415.28 769,419.04	32.441717°N 32.441731°N	103.594013°W
		.72 35. .72 35.			34.4	525,222.26 525,227.55	769,419.04	32.441731 N 32.441746°N	103.594001°W 103.593988°W
		.72 35. .72 35.			41.9	525,232.84	769,426.57	32.441760°N	103.593966 W
		.72 35. .72 35.			45.7	525,238.13	769,430.33	32.441775°N	103.593976 W
		.72 35.			49.4	525,243.42	769,434.09	32.441789°N	103.593951°W
		.72 35.			53.2	525,248.71	769,437.85	32.441804°N	103.593939°W
		.72 35.			56.9	525,254.00	769,441.61	32.441818°N	103.593927°W
		.72 35.			60.7	525,259.29	769,445.37	32.441832°N	103.593914°W
		.72 35.			64.5	525,264.57	769,449.14	32.441847°N	103.593902°W
7,0	000.0 3	.72 35.	42 6,996.3	96.0	68.2	525,269.86	769,452.90	32.441861°N	103.593890°W
7,1	100.0 3	.72 35.	42 7,096.1	101.2	72.0	525,275.15	769,456.66	32.441876°N	103.593877°W
7,2	200.0 3	.72 35.	42 7,195.9	106.5	75.8	525,280.44	769,460.42	32.441890°N	103.593865°W
		.72 35.	42 7,295.7	111.8	79.5	525,285.73	769,464.18	32.441905°N	103.593853°W
7,3	300.3	.72 35.	42 7,296.0	111.8	79.5	525,285.75	769,464.19	32.441905°N	103.593853°W
Bru	ishy Canyon								
7,4	100.0 3	.72 35.	42 7,395.5	117.1	83.3	525,291.02	769,467.94	32.441919°N	103.593841°W
7,5		.72 35.			87.0	525,296.31	769,471.70	32.441934°N	103.593828°W
		.72 35.			90.8	525,301.60	769,475.47	32.441948°N	103.593816°W
		.72 35.			94.6	525,306.89	769,479.23	32.441963°N	103.593804°W
		.72 35.			98.3	525,312.18	769,482.99	32.441977°N	103.593791°W
		.72 35.			102.1	525,317.47	769,486.75	32.441992°N	103.593779°W
		.72 35.			105.8	525,322.76	769,490.51	32.442006°N	103.593767°W
		.72 35.			109.6	525,328.05	769,494.27	32.442021°N	103.593754°W
		.72 35.			113.4	525,333.34	769,498.03	32.442035°N	103.593742°W
		.72 35. .72 35.			117.1 120.9	525,338.63 525,343.92	769,501.79 769,505.56	32.442049°N 32.442064°N	103.593730°W 103.593717°W
		.72 35. .72 35.			120.9	525,343.92 525,349.21	769,505.56 769,509.32	32.442064 N 32.442078°N	103.593717 W
		.72 35. .72 35.			124.7	525,349.21	769,509.32 769,513.08	32.442076 N 32.442093°N	103.593693°W
		.72 35. .72 35.			132.2	525,359.79	769,516.84	32.442107°N	103.593680°W
		.72 35.			135.6	525,364.57	769,520.24	32.442120°N	103.593669°W
	ne Spring Lime	_ 50.	5,. 55.0			1=3,0037	,		
		.72 35.	42 8,792.5	191.2	135.9	525,365.07	769,520.60	32.442122°N	103.593668°W
		.72 35.			139.7	525,370.36	769,524.36	32.442136°N	103.593656°W
1		.72 35.			143.5	525,375.65	769,528.12	32.442151°N	103.593644°W

Planning Report - Geographic

Database: EDM 5000.16 Single User Db Company: Advance Energy Partners

Project: Hat Mesa

Site:Dagger Lake 5 State Com - Pad CWell:Dagger Lake 5 State Com 833HWellbore:Dagger Lake 5 State Com 833HDesign:Dagger Lake 5 State Com 833H

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Dagger Lake 5 State Com 833H WELL @ 3754.5usft (Original Well Elev) WELL @ 3754.5usft (Original Well Elev)

Grid

Planned Surv	ey								
	•								
Measured Depth	l	A!4l-	Vertical Depth		. = / \	Map Northing	Map Easting		
(usft)	Inclination (°)	Azimuth (°)	(usft)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	Latitude	Longitude
9,100.		35.42	9,091.9	207.0	147.2	525,380.94	769,531.89	32.442165°N	103.593631°W
9,200			9,191.7	212.3	151.0	525,386.23	769,535.65	32.442180°N	103.593619°W
9,300.	0 3.72	35.42	9,291.5	217.6	154.7	525,391.52	769,539.41	32.442194°N	103.593607°W
9,400.	0 3.72	35.42	9,391.2	222.9	158.5	525,396.81	769,543.17	32.442209°N	103.593594°W
9,500.	0 3.72	35.42	9,491.0	228.2	162.3	525,402.10	769,546.93	32.442223°N	103.593582°W
9,600.		35.42	9,590.8	233.5	166.0	525,407.39	769,550.69	32.442238°N	103.593570°W
9,700.		35.42	9,690.6	238.8	169.8	525,412.68	769,554.45	32.442252°N	103.593557°W
9,800.		35.42	9,790.4	244.1	173.6	525,417.97	769,558.22	32.442266°N	103.593545°W
9,900.		35.42	9,890.2	249.3	177.3	525,423.26	769,561.98	32.442281°N	103.593533°W
10,000		35.42	9,990.0 10,001.0	254.6 255.2	181.1 181.5	525,428.55	769,565.74	32.442295°N	103.593520°W
10,011.		35.42	10,001.0	255.2	101.5	525,429.13	769,566.15	32.442297°N	103.593519°W
10,100.	one Spring 0 3.72	35.42	10,089.8	259.9	184.8	525,433.84	769,569.50	32.442310°N	103.593508°W
10,100		35.42	10,009.0	260.2	185.0	525,434.07	769,569.66	32.442310 N	103.593508°W
	rop -1.00	55.7£	.0,007.1	200.2	100.0	520, 104.01	. 55,555.00	52.112011 N	. 30.00000 **
10,200.	•	35.42	10,189.6	264.6	188.1	525,438.48	769,572.80	32.442323°N	103.593497°W
10,300		35.42	10,289.5	267.8	190.4	525,441.70	769,575.09	32.442331°N	103.593490°W
10,400.		35.42	10,389.5	269.6	191.7	525,443.50	769,576.37	32.442336°N	103.593486°W
10,476.	5 0.00	0.00	10,466.0	270.0	192.0	525,443.91	769,576.67	32.442337°N	103.593485°W
Start 1	00.5 hold at 104	476.5 MD							
10,500.		0.00	10,489.5	270.0	192.0	525,443.91	769,576.67	32.442337°N	103.593485°W
10,577.	0.00	0.00	10,566.5	270.0	192.0	525,443.91	769,576.67	32.442337°N	103.593485°W
	2 - Start Build 1								
10,600.		179.59	10,589.5	269.4	192.0	525,443.36	769,576.67	32.442336°N	103.593485°W
10,625.		179.59	10,615.0	267.5	192.0	525,441.45	769,576.68	32.442331°N	103.593485°W
	d Bone Spring	470.50	40.000.4	054.0	100.1	FOF 400 47	700 570 70	20.4400048N	402 502405%
10,700. 10,800.		179.59 179.59	10,688.1 10,781.5	254.3 218.9	192.1 192.4	525,428.17 525,392.80	769,576.78 769,577.03	32.442294°N 32.442197°N	103.593485°W 103.593485°W
10,900		179.59	10,761.3	164.9	192.4	525,338.79	769,577.41	32.442048°N	103.593485°W
11,000		179.59	10,936.3	94.6	193.2	525,268.51	769,577.91	32.441855°N	103.593485°W
11,100.		179.59	10,991.0	11.1	193.8	525,185.03	769,578.51	32.441626°N	103.593485°W
11,200.		179.59	11,027.2	-81.9	194.5	525,092.00	769,579.17	32.441370°N	103.593484°W
11,300.	0 86.76	179.59	11,043.2	-180.4	195.2	524,993.48	769,579.87	32.441099°N	103.593484°W
11,327.	1 90.00	179.59	11,044.0	-207.5	195.4	524,966.41	769,580.07	32.441025°N	103.593484°W
	Start 7239.5 hol								
11,400.		179.59	11,044.0	-280.4	195.9	524,893.50	769,580.58	32.440825°N	103.593484°W
11,500.		179.59	11,044.0	-380.4	196.6	524,793.50	769,581.30	32.440550°N	103.593484°W
11,600		179.59	11,044.0	-480.4	197.3	524,693.50	769,582.01	32.440275°N	103.593484°W
11,700. 11,800.		179.59 179.59	11,044.0 11,044.0	-580.4 -680.4	198.1 198.8	524,593.51 524,493.51	769,582.72 769,583.43	32.440000°N 32.439725°N	103.593484°W 103.593484°W
11,900		179.59	11,044.0	-780.4	199.5	524,393.51	769,584.14	32.439450°N	103.593484°W
12,000		179.59	11,044.0	-880.4	200.2	524,293.51	769,584.86	32.439175°N	103.593484°W
12,100.		179.59	11,044.0	-980.4	200.9	524,193.52	769,585.57	32.438900°N	103.593484°W
12,200.		179.59	11,044.0	-1,080.4	201.6	524,093.52	769,586.28	32.438626°N	103.593484°W
12,300.	0 90.00	179.59	11,044.0	-1,180.4	202.3	523,993.52	769,586.99	32.438351°N	103.593484°W
12,400.		179.59	11,044.0	-1,280.4	203.0	523,893.52	769,587.70	32.438076°N	103.593484°W
12,500.		179.59	11,044.0	-1,380.4	203.8	523,793.53	769,588.42	32.437801°N	103.593484°W
12,600.		179.59	11,044.0	-1,480.4	204.5	523,693.53	769,589.13	32.437526°N	103.593484°W
12,700		179.59	11,044.0	-1,580.4 1,680.4	205.2	523,593.53	769,589.84	32.437251°N	103.593484°W
12,800. 12,900.		179.59 179.59	11,044.0 11,044.0	-1,680.4 -1,780.4	205.9 206.6	523,493.53 523,393.54	769,590.55 769,591.26	32.436976°N 32.436702°N	103.593483°W 103.593483°W
13,000		179.59	11,044.0	-1,780.4	200.0	523,293.54	769,591.20	32.436427°N	103.593483°W
13,100		179.59	11,044.0	-1,980.4	208.0	523,193.54	769,592.69	32.436152°N	103.593483°W
13,200.		179.59	11,044.0	-2,080.4	208.7	523,093.54	769,593.40	32.435877°N	103.593483°W

Planning Report - Geographic

Database: EDM 5000.16 Single User Db Company: Advance Energy Partners

Project: Hat Mesa

Site:Dagger Lake 5 State Com - Pad CWell:Dagger Lake 5 State Com 833HWellbore:Dagger Lake 5 State Com 833HDesign:Dagger Lake 5 State Com 833H

Local Co-ordinate Reference: TVD Reference: MD Reference:

Survey Calculation Method:

North Reference:

Well Dagger Lake 5 State Com 833H WELL @ 3754.5usft (Original Well Elev) WELL @ 3754.5usft (Original Well Elev)

Planned Survey	,								
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
13,300.0	90.00	179.59	11,044.0	-2,180.4	209.4	522,993.55	769,594.11	32.435602°N	103.593483°W
13,400.0	90.00	179.59	11,044.0	-2,280.4	210.2	522,893.55	769,594.82	32.435327°N	103.593483°W
13,500.0	90.00	179.59	11,044.0	-2,380.4	210.9	522,793.55	769,595.54	32.435052°N	103.593483°W
13,600.0	90.00	179.59	11,044.0	-2,480.4	211.6	522,693.56	769,596.25	32.434777°N	103.593483°W
13,700.0	90.00	179.59	11,044.0	-2,580.4	212.3	522,593.56	769,596.96	32.434503°N	103.593483°W
13,800.0	90.00	179.59	11,044.0	-2,680.4	213.0	522,493.56	769,597.67	32.434228°N	103.593483°W
13,900.0	90.00	179.59	11,044.0	-2,780.4	213.7	522,393.56	769,598.39	32.433953°N	103.593483°W
14,000.0	90.00	179.59	11,044.0	-2,880.3	214.4	522,293.57	769,599.10	32.433678°N	103.593483°W
14,100.0	90.00	179.59	11,044.0	-2,980.3	215.1	522,193.57	769,599.81	32.433403°N	103.593483°W
14,200.0	90.00	179.59	11,044.0	-3,080.3	215.9	522,093.57	769,600.52	32.433128°N	103.593483°W
14,300.0	90.00	179.59	11,044.0	-3,180.3	216.6	521,993.57	769,601.23	32.432853°N	103.593483°W
14,400.0	90.00	179.59	11,044.0	-3,280.3	217.3	521,893.58	769,601.95	32.432579°N	103.593482°W
14,500.0	90.00	179.59	11,044.0	-3,380.3	218.0	521,793.58	769,602.66	32.432304°N	103.593482°W
14,600.0	90.00	179.59	11,044.0	-3,480.3	218.7	521,693.58	769,603.37	32.432029°N	103.593482°W
14,700.0	90.00	179.59	11,044.0	-3,580.3	219.4	521,593.58	769,604.08	32.431754°N	103.593482°W
14,800.0	90.00	179.59	11,044.0	-3,680.3	220.1	521,493.59	769,604.79	32.431479°N	103.593482°W
14,900.0	90.00	179.59	11,044.0	-3,780.3	220.8	521,393.59	769,605.51	32.431204°N	103.593482°W
15,000.0	90.00	179.59	11,044.0	-3,880.3	221.6	521,293.59	769,606.22	32.430929°N	103.593482°W
15,100.0	90.00	179.59	11,044.0	-3,980.3	222.3	521,193.59	769,606.93	32.430655°N	103.593482°W
15,200.0	90.00	179.59	11,044.0	-4,080.3	223.0	521,093.60	769,607.64	32.430380°N	103.593482°W
15,300.0	90.00	179.59	11,044.0	-4,180.3	223.7	520,993.60	769,608.35	32.430105°N	103.593482°W
15,400.0	90.00	179.59	11,044.0	-4,280.3	224.4	520,893.60	769,609.07	32.429830°N	103.593482°W
15,500.0	90.00	179.59	11,044.0	-4,380.3	225.1	520,793.60	769,609.78	32.429555°N	103.593482°W
15,600.0	90.00	179.59	11,044.0	-4,480.3	225.8	520,693.61	769,610.49	32.429280°N	103.593482°W
15,700.0	90.00	179.59	11,044.0	-4,580.3	226.5	520,593.61	769,611.20	32.429005°N	103.593482°W
15,800.0	90.00	179.59	11,044.0	-4,680.3	227.2	520,493.61	769,611.91	32.428730°N	103.593482°W
15,900.0	90.00	179.59	11,044.0	-4,780.3	228.0	520,393.61	769,612.63	32.428456°N	103.593481°W
16,000.0	90.00	179.59	11,044.0	-4,880.3	228.7	520,293.62	769,613.34	32.428181°N	103.593481°W
16,100.0	90.00	179.59	11,044.0	-4,980.3	229.4	520,193.62	769,614.05	32.427906°N	103.593481°W
16,200.0	90.00	179.59	11,044.0	-5,080.3	230.1	520,093.62	769,614.76	32.427631°N	103.593481°W
16,300.0	90.00	179.59	11,044.0	-5,180.3	230.8	519,993.62	769,615.47	32.427356°N	103.593481°W
16,400.0	90.00	179.59	11,044.0	-5,280.3	231.5	519,893.63	769,616.19	32.427081°N	103.593481°W
16,500.0	90.00	179.59	11,044.0	-5,380.3	232.2	519,793.63	769,616.90	32.426806°N	103.593481°W
16,600.0	90.00	179.59	11,044.0	-5,480.3	232.9	519,693.63	769,617.61	32.426532°N	103.593481°W
16,700.0	90.00	179.59	11,044.0	-5,580.3	233.7	519,593.63	769,618.32	32.426257°N	103.593481°W
16,800.0	90.00	179.59	11,044.0	-5,680.3	234.4	519,493.64	769,619.03	32.425982°N	103.593481°W
16,900.0	90.00	179.59	11,044.0	-5,780.3	235.1	519,393.64	769,619.75	32.425707°N	103.593481°W
17,000.0	90.00	179.59	11,044.0	-5,880.3	235.8	519,293.64	769,620.46	32.425432°N	103.593481°W
17,100.0	90.00	179.59	11,044.0	-5,980.3	236.5	519,193.64	769,621.17	32.425157°N	103.593481°W
17,200.0	90.00	179.59	11,044.0	-6,080.3	237.2	519,093.65	769,621.88	32.424882°N	103.593481°W
17,300.0	90.00	179.59	11,044.0	-6,180.3	237.9	518,993.65	769,622.59	32.424607°N	103.593481°W
17,400.0	90.00	179.59	11,044.0	-6,280.3	238.6	518,893.65	769,623.31	32.424333°N	103.593481°W
17,500.0	90.00	179.59	11,044.0	-6,380.3	239.4	518,793.65	769,624.02	32.424058°N	103.593480°W
17,600.0	90.00	179.59	11,044.0	-6,480.3	240.1	518,693.66	769,624.73	32.423783°N	103.593480°W
17,700.0	90.00	179.59	11,044.0	-6,580.3	240.8	518,593.66	769,625.44	32.423508°N	103.593480°W
17,800.0	90.00	179.59	11,044.0	-6,680.3	241.5	518,493.66	769,626.15	32.423233°N	103.593480°W
17,900.0	90.00	179.59	11,044.0	-6,780.2	242.2	518,393.66	769,626.87	32.422958°N	103.593480°W
18,000.0	90.00	179.59	11,044.0	-6,880.2	242.9	518,293.67	769,627.58	32.422683°N	103.593480°W
18,100.0	90.00	179.59	11,044.0	-6,980.2	243.6	518,193.67	769,628.29	32.422409°N	103.593480°W
18,200.0	90.00	179.59	11,044.0	-7,080.2	244.3	518,093.67	769,629.00	32.422134°N	103.593480°W
18,300.0	90.00	179.59	11,044.0	-7,180.2	245.0	517,993.67	769,629.71	32.421859°N	103.593480°W
18,400.0		179.59	11,044.0	-7,280.2	245.8	517,893.68	769,630.43	32.421584°N	103.593480°W
18,500.0	90.00	179.59	11,044.0	-7,380.2	246.5	517,793.68	769,631.14	32.421309°N	103.593480°W

Planning Report - Geographic

Database: EDM 5000.16 Single User Db Company: Advance Energy Partners

Project: Hat Mesa

Site:Dagger Lake 5 State Com - Pad CWell:Dagger Lake 5 State Com 833HWellbore:Dagger Lake 5 State Com 833HDesign:Dagger Lake 5 State Com 833H

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Dagger Lake 5 State Com 833H WELL @ 3754.5usft (Original Well Elev) WELL @ 3754.5usft (Original Well Elev)

311U

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
18,566.5	90.00	179.59	11,044.0	-7,446.8	246.9	517,727.14	769,631.61	32.421126°N	103.593480°W
LTP - Sta	rt DLS 0.33 T	FO 90.00 - DL	N 5 State Com	833H LTP					
18,600.0	90.00	179.70	11,044.0	-7,480.2	247.3	517,693.68	769,632.01	32.421034°N	103.593479°W
18,616.5	90.00	179.76	11,044.0	-7,496.8	247.4	517,677.15	769,632.09	32.420989°N	103.593479°W
TD at 186	616.5 - DLN 5	State Com 83	3H 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
DLN 5 State Com 833H - plan misses target - Point	0.00 center by 0.2u	0.00 usft at 18566	11,044.0 .5usft MD (1	-7,446.8 1044.0 TVD, -	247.1 7446.8 N, 246	517,727.14 .9 E)	769,631.81	32.421126°N	103.593479°W
DLN 5 State Com 833H - plan hits target cen - Point	0.00 ter	0.00	11,044.0	-7,496.8	247.4	517,677.15	769,632.09	32.420989°N	103.593479°W
DLN 5 State Com 833H - plan hits target cen - Point	0.00 ter	0.00	11,044.0	-207.5	195.4	524,966.41	769,580.07	32.441025°N	103.593484°W

Formations							
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,530.0	1,530.0	Rustler				
	1,964.0	1,964.0	Salado				
	3,198.0	3,198.0	Tansill				
	3,489.0	3,489.0	Capitan				
	5,199.0	5,199.0	Bell Canyon				
	7,300.3	7,296.0	Brushy Canyon				
	8,790.5	8,783.0	Bone Spring Lime				
	10,011.0	10,001.0	First Bone Spring				
	10,625.6	10,615.0	Second Bone Spring				

Plan Annotations				
Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
5,000.0	5,000.0	0.0	0.0	KOP - Start Build 1.00
5,372.1	5,371.9	9.8	7.0	Start 4732.2 hold at 5372.1 MD
10,104.4	10,094.1	260.2	185.0	Start Drop -1.00
10,476.5	10,466.0	270.0	192.0	Start 100.5 hold at 10476.5 MD
10,577.0	10,566.5	270.0	192.0	KOP #2 - Start Build 12.00
11,327.1	11,044.0	-207.5	195.4	FTP - Start 7239.5 hold at 11327.1 MD
18,566.5	11,044.0	-7,446.8	246.9	LTP - Start DLS 0.33 TFO 90.00
18,616.5	11,044.0	-7,496.8	247.4	TD at 18616.5

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

ther, please describe Well(s): Provide the					wells proposed to	he drilled or prop
recompleted from a s					vens proposed to	oc armed or prop
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Dagger Lake 5 State Com 113H	30-025-	B-32-21S-33E	312.5' FNL & 2500' FEL	761	1866	4577
Dagger Lake 5 State Com 813H	30-025-	B-32-21S-33E	402.5' FNL & 2500' FEL	778	1474	4848
Dagger Lake 5 State Com 833H	30-025-	B-32-21S-33E	372.5' FNL & 2500' FEL	993	1052	3643
Dagger Lake 5 State Com 923H	30-025-	B-32-21S-33E	342.5' FNL & 2500' FEL	1092	1342	2541
1						

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 Lake 5 State Com 113H	30-025-	01/03/2025	01/23/2025	04/03/2024	05/12/2024	05/15/2024
Dagger Lake 5 State Com 813H	30-025-	02/16/2025	03/08/2025	04/03/2024	05/12/2024	05/15/2024
Dagger Lake 5 State Com 833H	30-025-	11/20/2024	12/10/2024	04/03/2024	05/12/2024	05/15/2024
Dagger Lake 5 State Com 923H	30-025-	03/10/2025	03/30/2025	04/03/2024	05/12/2024	05/15/2024

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. \square 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%	6 of the anticipated	natural gas
production volume from the well	prior to the date of first	production.				

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

ı	Ш.	Attacl	h (Operator	's p	lan to	manage	product	ion in	response	e to t	he incr	eased	line	pressure
٠.	_			, p • 1 · · · · · ·	~ ~			promote		Tespons.					p1 - 555 - 51 - 5

XIV. Confidentiality: \Box Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information proving	ided 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 infor	mation
for which confidentiality is asserted and the basis for such assertion.	

(i)

Section 3 - Certifications Effective May 25, 2021

	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, aking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or				
hundred percent of the into account the current	e able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. **Ebox, Operator will select one of the following:**			
Well Shut-In. ☐ Opera D of 19.15.27.9 NMAC	tor will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection 5; or			
0 0	Plan. Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential			
	ses 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			

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

- (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 Gu
Printed Name: Cesca Yu
Title: Engineer
E-mail Address: cyu@ameredev.com
Date: 08/30/2022
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