<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 325785

APPLICATION FOR PERMIT TO DRIL	., RE-ENTER, DEEPEN	I, PLUGBACK	, OR ADD A ZONE
--------------------------------	---------------------	-------------	-----------------

AT LIGHT OF LIGHT TO BRILL, TE ETTER, DEEL ETT, LOODAGT, OTTABBALOTE									
1. Operator Name and Address									
ADVANCE ENERGY PARTNERS HAT MESA, LLC									
11490 Westheimer Rd., Ste 950									
	30-025-50698								
5. Property Name	6. Well No.								
DAGGER LAKE 5 STATE COM	913H								
	T MESA, LLC  5. Property Name								

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
Α	32	21S	33E	Α	342	N	1250	E	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
G	5	22S	33E	G	2690	S	1330	E	Lea

9 Pool Information

	9. FOOI IIIIOIIIIatioii	
LEGG:BONE SPRING	37870	

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3714
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	18882	3rd Bone Spring Carbonate		3/8/2023
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	1674	1289	0			
Int1	12.25	10.75	40.5	5274	744	0			
Int2	9.875	7.625	29.7	10674	1257	0			
Prod	6.75	5.5	20	18882	604	0			

#### Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Туре	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.				OIL CONSERVATIO	N DIVISION
Signature:					
Printed Name:	Printed Name: Electronically filed by Eileen M Kosakowski			Paul F Kautz	
Title:			Title:	Geologist	
Email Address:	Email Address: ekosakowski@advanceenergypartners.com			10/5/2022	Expiration Date: 10/5/2024
Date:	9/22/2022	Conditions of Approval Attached			

District I

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

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

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

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

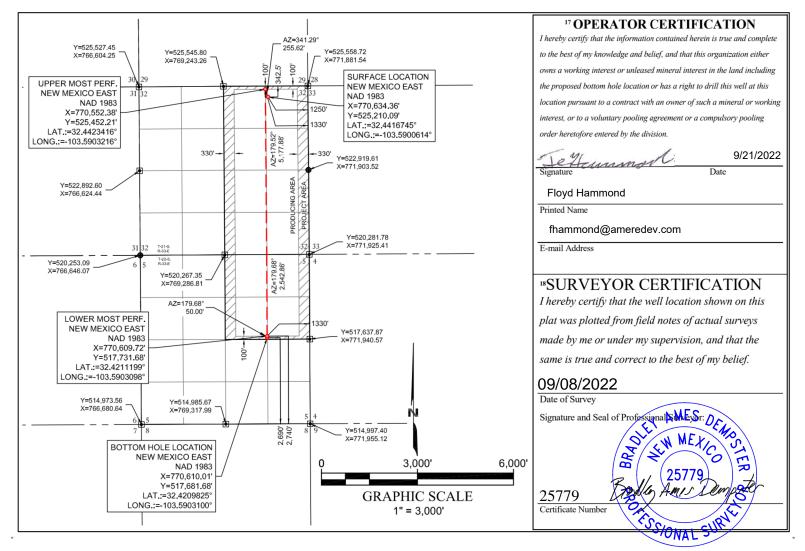
#### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-		<sup>2</sup> Pool Code 97895 WC-025 G-08 S213304D; BONE SPRING		G		
<sup>4</sup> Property Code 319599			operty Name 6 Well Number ake 5 State Com #913H			
<sup>7</sup> ogrid n₀. 372417		- 1	perator Name PARTNERS HAT MESA LLC	<sup>9</sup> Elevation 3,714.85'		

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Α	32	21-S	33-E		342.5'	NORTH	1,250'	EAST	LEA
	" 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
G	5	22-S	33-E		2,690'	SOUTH	1,330'	EAST	LEA
12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.									
480			С						

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.



Form APD Conditions

Permit 325785

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

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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** 

#### PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:		
ADVANCE ENERGY PARTNERS HAT MESA, LLC [372417]	30-025-50698		
11490 Westheimer Rd., Ste 950	Well:		
Houston, TX 77077	DAGGER LAKE 5 STATE COM #913H		

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 Lake North 5 State Com - Pad B Dagger Lake 5 State Com 913H

Dagger Lake 5 State Com 913H

Plan: Dagger Lake 5 State Com 913H

# **Standard Planning Report - Geographic**

**15 September, 2022** 

#### Planning Report - Geographic

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

Project: Hat Mesa

Site: Dagger Lake North 5 State Com - Pad B Well: Dagger Lake 5 State Com 913H Wellbore: Dagger Lake 5 State Com 913H Dagger Lake 5 State Com 913H Design:

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

**Survey Calculation Method:** 

Well Dagger Lake 5 State Com 913H WELL @ 3747.5usft (Original Well Elev) WELL @ 3747.5usft (Original Well Elev)

180.19

Minimum Curvature

Project Hat Mesa, Lea County, NM

US State Plane 1983 Map System: North American Datum 1983 Geo Datum: Map Zone: New Mexico Eastern Zone

System Datum:

Mean Sea Level

Dagger Lake North 5 State Com - Pad B Site

524,967.14 usft Northing: Site Position: Latitude: 32.441020°N 769,939.83 usft 103.592318°W Lat/Long Easting: From: Longitude: 13-3/16 "

Position Uncertainty: 0.0 usft Slot Radius:

0.0

Well Dagger Lake 5 State Com 913H

32.441675°N **Well Position** +N/-S 0.0 usft Northing: 525,210.09 usft Latitude: +E/-W 0.0 usft Easting: 770,634.35 usft Longitude: 103.590062°W

Wellhead Elevation: Ground Level: **Position Uncertainty** 0.0 usft usft 3,715.0 usft

**Grid Convergence:** 0.40

Dagger Lake 5 State Com 913H Wellbore

Declination Magnetics **Model Name** Sample Date **Dip Angle** Field Strength (nT) (°) (°) IGRF2015 8/4/2020 6.64 60.22 47.740.09425083

Design Dagger Lake 5 State Com 913H 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

Plan Survey Tool Program 9/15/2022 **Depth From** Depth To (usft) Survey (Wellbore) **Tool Name** (usft) Remarks 1 0.0 18,917.0 Dagger Lake 5 State Com 913H MWD+HRGM OWSG MWD + HRGM

9/15/2022 11:18:43AM Page 2 COMPASS 5000.16 Build 96

# Planning Report - Geographic

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

Project: Hat Mesa

Site:Dagger Lake North 5 State Com - Pad BWell:Dagger Lake 5 State Com 913HWellbore:Dagger Lake 5 State Com 913HDesign:Dagger Lake 5 State Com 913H

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

Survey Calculation Method:

Well Dagger Lake 5 State Com 913H WELL @ 3747.5usft (Original Well Elev) WELL @ 3747.5usft (Original Well Elev)

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	
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,481.2	2.81	339.44	5,481.1	6.5	-2.4	1.00	1.00	0.00	339.44	
10,425.0	2.81	339.44	10,418.9	233.5	-87.6	0.00	0.00	0.00	0.00	
10,706.2	0.00	0.00	10,700.0	240.0	-90.0	1.00	-1.00	0.00	180.00	
10,875.8	0.00	0.00	10,869.6	240.0	-90.0	0.00	0.00	0.00	0.00	
11,625.7	90.00	179.54	11,347.0	-237.4	-86.2	12.00	12.00	0.00	179.54	
11,660.7	90.00	179.54	11,347.0	-272.4	-85.9	0.00	0.00	0.00	0.00	DLN 5 State Com 913
18,867.0	90.00	179.48	11,347.0	-7,478.4	-24.6	0.00	0.00	0.00	-90.00	DLN 5 State Com 913
18,917.0	90.00	179.86	11,347.0	-7,528.4	-24.3	0.75	0.00	0.75	90.00	DLN 5 State Com 913

# Planning Report - Geographic

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

Project: Hat Mesa

Site:Dagger Lake North 5 State Com - Pad BWell:Dagger Lake 5 State Com 913HWellbore:Dagger Lake 5 State Com 913HDesign:Dagger Lake 5 State Com 913H

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

Survey Calculation Method:

North Reference:

Well Dagger Lake 5 State Com 913H WELL @ 3747.5usft (Original Well Elev) WELL @ 3747.5usft (Original Well Elev)

0.0 0.00 0.00 0.00 0.0 0.0 0.0 0.0 0.0	Planned Survey									
100.0	Depth			Depth			Northing	Easting	Latitude	Longitude
200.0   0.00   0.00   200.0   0.0   0.0   525,210.09   770,634,35   32.441675"N   103.590   300.0   0.00   0.00   400.0   0.0   0.0   525,210.09   770,634,35   32.441675"N   103.590   500.0   0.00   0.00   500.0   0.0   0.0   525,210.09   770,634,35   32.441675"N   103.590   500.0   0.00   0.00   500.0   0.0   0.0   525,210.09   770,634,35   32.441675"N   103.590   700.0   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   525,210.09   770,634,35   32.441675"N   103.590   700.0   0.00	0.0	0.00	0.00	0.0			525,210.09		32.441675°N	103.590062°W
300.0   0.00   0.00   300.0   0.0   0.0   525,210.09   770,634.35   32,441675*N   103.590   500.0   0.00   0.00   500.0   0.0   0.0   525,210.09   770,634.35   32,441675*N   103.590   500.0   0.00   0.00   0.00   0.00   500.0   0.0   0.00   525,210.09   770,634.35   32,441675*N   103.590   500.0   0.00   0.00   0.00   0.00   0.00   525,210.09   770,634.35   32,441675*N   103.590   500.0   0.00   0.00   0.00   0.00   0.00   0.00   525,210.09   770,634.35   32,441675*N   103.590   500.0   0.00   0.00   0.00   0.00   0.00   0.00   0.00   525,210.09   770,634.35   32,441675*N   103.590   500.0   0.00   0.00   0.00   0.00   0.00   0.00   0.00   525,210.09   770,634.35   32,441675*N   103.590   500.0   0.00   0										103.590062°W
400.0										103.590062°W
\$60.0 0.00 0.00 500.0 0.00 0.00 0.00 500.0 0.0										103.590062°W
600.0							,			103.590062°W
TOO.0										103.590062°W
800.0 0.00 0.00 800.0 0.0 0.00 525,210.09 770,634.35 32.441675°N 103.590°C 900.0 0.00 0.00 0.00 1.000.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1.000.0 0.00 0.00 1.000.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1.200.0 0.00 0.00 1.200.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1.200.0 0.00 0.00 1.200.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1.200.0 0.00 0.00 1.200.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1.200.0 0.00 0.00 1.200.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1.200.0 0.00 0.00 1.200.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1.200.0 0.00 0.00 1.200.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1.200.0 0.00 0.00 1.500.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1.200.0 0.00 0.00 1.500.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1.200.0 0.00 0.00 1.549.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1.200.0 0.00 0.00 1.200.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1.200.0 0.00 0.00 0.00 1.200.0 0.00 0.0										103.590062°W
900.0 0.00 0.00 900.0 900.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1,000.0 0.00 0.00 1,000.0 0.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1,200.0 0.00 0.00 1,200.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1,200.0 0.00 0.00 1,200.0 0.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1,300.0 0.00 0.00 1,300.0 0.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1,300.0 0.00 0.00 1,400.0 0.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1,500.0 0.00 0.00 1,500.0 0.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1,549.0 0.0 0.00 1,549.0 0.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1,549.0 0.0 0.0 0.0 1,649.0 0.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1,549.0 0.0 0.0 0.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1,549.0 0.0 0.0 0.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1,549.0 0.0 0.0 0.0 0.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590°C 1,700.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.							,			103.590062 W
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1,500.0 0.00 0.00 1,500.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    Rustler 1,600.0 0.00 0.00 1,600.0 0.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    Rustler 1,600.0 0.00 0.00 1,700.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    1,700.0 0.00 0.00 1,700.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    1,800.0 0.00 0.00 1,800.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    1,800.0 0.00 0.00 1,900.0 0.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    1,900.0 0.00 0.00 1,975.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    1,975.0 0.00 0.00 1,975.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    Salado    2,000.0 0.00 0.00 2,000.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    2,100.0 0.00 0.00 2,000.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    2,200.0 0.00 0.00 2,000.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    2,200.0 0.00 0.00 2,000.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    2,200.0 0.00 0.00 2,200.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    2,200.0 0.00 0.00 2,200.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    2,200.0 0.00 0.00 2,300.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    2,400.0 0.00 0.00 2,300.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    2,500.0 0.00 0.00 2,400.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    2,600.0 0.00 0.00 2,500.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    2,600.0 0.00 0.00 2,600.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    2,600.0 0.00 0.00 2,600.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    2,600.0 0.00 0.00 2,800.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    2,800.0 0.00 0.00 2,800.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    2,800.0 0.00 0.00 0.00 3,000.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    3,100.0 0.00 0.00 3,170.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    3,100.0 0.00 0.00 3,170.0 0.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590    3,178.0 0.00 0.00 3,178.0 0.										103.590062°W
1,549.0	1	0.00	0.00					770,634.35	32.441675°N	103.590062°W
Rustler	1,500.0	0.00	0.00	1,500.0	0.0	0.0	525,210.09	770,634.35	32.441675°N	103.590062°W
1,600.0       0.00       1,600.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         1,700.0       0.00       0.00       1,700.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         1,800.0       0.00       0.00       1,800.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         1,975.0       0.00       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         1,975.0       0.00       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         Salado         2,000.0       0.00       0.00       2,000.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,000.0       0.00       0.00       2,000.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,100.0       0.00       0.00       2,100.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,200.0       0.00       0.00       2,200.0       0.0       0.0       525,210.09       770,634.35       32.441675°N	1,549.0	0.00	0.00	1,549.0	0.0	0.0	525,210.09	770,634.35	32.441675°N	103.590062°W
1,700.0       0.00       0.00       1,700.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         1,800.0       0.00       0.00       1,800.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         1,900.0       0.00       0.00       1,900.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         Salado         2,000.0       0.00       0.00       2,000.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,100.0       0.00       0.00       2,000.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,100.0       0.00       0.00       2,000.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,200.0       0.00       0.00       2,200.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,300.0       0.00       0.00       2,200.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,400.0 <t< td=""><td>Rustler</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Rustler									
1,800.0 0.00 0.00 1,800.0 0.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590 1,975.0 0.00 0.00 1,975.0 0.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590 1,975.0 0.00 0.00 1,975.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590 1,975.0 0.00 0.00 0.00 525,210.09 770,634.35 32.441675°N 103.590 1,975.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00	1,600.0	0.00	0.00	1,600.0	0.0	0.0	525,210.09	770,634.35	32.441675°N	103.590062°W
1,900.0 0.00 0.00 1,900.0 0.0 0.0 0.0 1,900.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590  Salado  2,000.0 0.00 0.00 2,000.0 0.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590  2,100.0 0.00 0.00 2,100.0 0.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590  2,200.0 0.00 0.00 2,200.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590  2,200.0 0.00 0.00 2,200.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590  2,300.0 0.00 0.00 2,200.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590  2,300.0 0.00 0.00 2,300.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590  2,400.0 0.00 0.00 2,400.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590  2,500.0 0.00 0.00 2,500.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590  2,600.0 0.00 0.00 2,500.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590  2,700.0 0.00 0.00 2,600.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590  2,700.0 0.00 0.00 2,600.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590  2,800.0 0.00 0.00 2,800.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590  2,800.0 0.00 0.00 2,800.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590  2,900.0 0.00 0.00 2,900.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590  2,900.0 0.00 0.00 3,000.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590  3,000.0 0.00 0.00 3,000.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590  3,000.0 0.00 0.00 3,100.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590  3,000.0 0.00 0.00 3,100.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590  3,100.0 0.00 0.00 3,100.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590  3,100.0 0.00 0.00 3,178.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590		0.00	0.00			0.0	525,210.09		32.441675°N	103.590062°W
1,975.0       0.00       0.00       1,975.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         Salado         2,000.0       0.00       0.00       2,000.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,100.0       0.00       0.00       2,100.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,200.0       0.00       0.00       2,200.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,300.0       0.00       0.00       2,300.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,400.0       0.00       0.00       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,500.0       0.00       0.00       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,500.0       0.00       0.00       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,600.0       0.00       0.00       0.0								770,634.35	32.441675°N	103.590062°W
Salado         2,000.0         0.00         2,000.0         0.0         0.0         525,210.09         770,634.35         32.441675°N         103.590           2,100.0         0.00         0.00         2,100.0         0.0         0.0         525,210.09         770,634.35         32.441675°N         103.590           2,200.0         0.00         0.00         2,200.0         0.0         0.0         525,210.09         770,634.35         32.441675°N         103.590           2,300.0         0.00         0.00         2,300.0         0.0         0.0         525,210.09         770,634.35         32.441675°N         103.590           2,400.0         0.00         0.00         2,400.0         0.0         0.0         525,210.09         770,634.35         32.441675°N         103.590           2,500.0         0.00         0.00         2,400.0         0.0         0.0         525,210.09         770,634.35         32.441675°N         103.590           2,500.0         0.00         0.00         2,500.0         0.0         0.0         525,210.09         770,634.35         32.441675°N         103.590           2,600.0         0.00         0.00         2,600.0         0.0         0.0         525,210.09         77								,		103.590062°W
2,000.0       0.00       0.00       2,000.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,100.0       0.00       0.00       2,100.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,200.0       0.00       0.00       2,200.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,300.0       0.00       0.00       2,300.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,400.0       0.00       0.00       2,400.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,500.0       0.00       0.00       2,500.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,600.0       0.00       0.00       2,500.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,700.0       0.00       0.00       2,600.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,800.0       0.00       0.00       2,800.0       0.0 <td>1,975.0</td> <td>0.00</td> <td>0.00</td> <td>1,975.0</td> <td>0.0</td> <td>0.0</td> <td>525,210.09</td> <td>770,634.35</td> <td>32.441675°N</td> <td>103.590062°W</td>	1,975.0	0.00	0.00	1,975.0	0.0	0.0	525,210.09	770,634.35	32.441675°N	103.590062°W
2,100.0       0.00       0.00       2,100.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,200.0       0.00       0.00       2,200.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,300.0       0.00       0.00       2,300.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,400.0       0.00       0.00       2,400.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,500.0       0.00       0.00       2,500.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,600.0       0.00       0.00       2,500.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,600.0       0.00       0.00       2,600.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,700.0       0.00       0.00       2,700.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,800.0       0.00       0.00       2,800.0 <td></td>										
2,200.0       0.00       0.00       2,200.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,300.0       0.00       0.00       2,300.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,400.0       0.00       0.00       2,400.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,500.0       0.00       0.00       2,500.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,600.0       0.00       0.00       2,600.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,700.0       0.00       0.00       2,600.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,800.0       0.00       0.00       2,800.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,900.0       0.00       0.00       2,800.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         3,000.0       0.00       0.00							,	,		103.590062°W
2,300.0       0.00       0.00       2,300.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,400.0       0.00       0.00       2,400.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,500.0       0.00       0.00       2,500.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,600.0       0.00       0.00       2,600.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,700.0       0.00       0.00       2,700.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,800.0       0.00       0.00       2,800.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,900.0       0.00       0.00       2,800.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         3,000.0       0.00       0.00       2,900.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         3,100.0       0.00       0.00       3,000.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>103.590062°W</td>										103.590062°W
2,400.0       0.00       0.00       2,400.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,500.0       0.00       0.00       2,500.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,600.0       0.00       0.00       2,600.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,700.0       0.00       0.00       2,700.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,800.0       0.00       0.00       2,800.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,900.0       0.00       0.00       2,800.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         3,000.0       0.00       0.00       2,900.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         3,100.0       0.00       0.00       3,000.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         3,178.0       0.00       0.0       0.0										103.590062°W
2,500.0       0.00       0.00       2,500.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,600.0       0.00       0.00       2,600.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,700.0       0.00       0.00       2,700.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,800.0       0.00       0.00       2,800.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,900.0       0.00       0.00       2,900.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         3,000.0       0.00       0.00       3,000.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         3,100.0       0.00       0.00       3,100.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         3,178.0       0.00       0.00       3,178.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         3,178.0       0.00       0.0										
2,600.0       0.00       0.00       2,600.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,700.0       0.00       0.00       2,700.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,800.0       0.00       0.00       2,800.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,900.0       0.00       0.00       2,900.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         3,000.0       0.00       0.00       3,000.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         3,100.0       0.00       0.00       3,100.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         3,178.0       0.00       0.00       3,178.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590										103.590062 W
2,700.0       0.00       0.00       2,700.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,800.0       0.00       0.00       2,800.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,900.0       0.00       0.00       2,900.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         3,000.0       0.00       0.00       3,000.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         3,100.0       0.00       0.00       3,100.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         3,178.0       0.00       0.00       3,178.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590										103.590062°W
2,800.0       0.00       0.00       2,800.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         2,900.0       0.00       0.00       2,900.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         3,000.0       0.00       0.00       3,000.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         3,100.0       0.00       0.00       3,100.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         3,178.0       0.00       0.00       3,178.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590         3,178.0       0.00       0.00       3,178.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590										103.590062°W
2,900.0       0.00       0.00       2,900.0       0.0       525,210.09       770,634.35       32.441675°N       103.590°         3,000.0       0.00       0.00       3,000.0       0.0       525,210.09       770,634.35       32.441675°N       103.590°         3,100.0       0.00       0.00       3,100.0       0.0       525,210.09       770,634.35       32.441675°N       103.590°         3,178.0       0.00       0.00       3,178.0       0.0       0.0       525,210.09       770,634.35       32.441675°N       103.590°         3,178.0       0.00       0.00       525,210.09       770,634.35       32.441675°N       103.590°										103.590062°W
3,000.0     0.00     3,000.0     0.0     0.0     525,210.09     770,634.35     32.441675°N     103.590°       3,100.0     0.00     0.00     3,100.0     0.0     525,210.09     770,634.35     32.441675°N     103.590°       3,178.0     0.00     0.00     3,178.0     0.0     0.0     525,210.09     770,634.35     32.441675°N     103.590°       3,178.0     0.0     0.0     525,210.09     770,634.35     32.441675°N     103.590°							,			103.590062°W
3,178.0 0.00 0.00 3,178.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590			0.00							103.590062°W
	3,100.0	0.00	0.00	3,100.0	0.0	0.0	525,210.09	770,634.35	32.441675°N	103.590062°W
Tansill	3,178.0	0.00	0.00	3,178.0	0.0	0.0	525,210.09	770,634.35	32.441675°N	103.590062°W
14HOH	Tansill									
3,200.0 0.00 0.00 3,200.0 0.0 0.0 525,210.09 770,634.35 32.441675°N 103.590	3,200.0	0.00	0.00	3,200.0	0.0	0.0	525,210.09	770,634.35	32.441675°N	103.590062°W
										103.590062°W
								,		103.590062°W
		0.00	0.00	3,463.0	0.0	0.0	525,210.09	770,634.35	32.441675°N	103.590062°W
Capitan										
										103.590062°W
										103.590062°W
										103.590062°W 103.590062°W
	,									103.590062°W
										103.590062 W
										103.590062 W
	,									103.590062°W
							,			103.590062°W
							,			103.590062°W
										103.590062°W

# Planning Report - Geographic

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

Project: Hat Mesa

Site: Dagger Lake North 5 State Com - Pad B
Well: Dagger Lake 5 State Com 913H
Wellbore: Dagger Lake 5 State Com 913H

Design: Dagger Lake 5 State Com 913H

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Dagger Lake 5 State Com 913H WELL @ 3747.5usft (Original Well Elev) WELL @ 3747.5usft (Original Well Elev)

Grid

Design.	Bugg	ei Lake J Sia							
Planned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
4,600.0	0.00	0.00	4,600.0	0.0	0.0	525,210.09	770,634.35	32.441675°N	103.590062°W
4,700.0	0.00	0.00	4,700.0	0.0	0.0	525,210.09	770,634.35	32.441675°N	103.590062°W
4,800.0	0.00	0.00	4,800.0	0.0	0.0	525,210.09	770,634.35	32.441675°N	103.590062°W
4,900.0	0.00	0.00	4,900.0	0.0	0.0	525,210.09	770,634.35	32.441675°N	103.590062°W
5,000.0	0.00	0.00	5,000.0	0.0	0.0	525,210.09	770,634.35	32.441675°N	103.590062°W
5,100.0	0.00	0.00	5,100.0	0.0	0.0	525,210.09	770,634.35	32.441675°N	103.590062°W
5,200.0	0.00	0.00	5,200.0	0.0	0.0	525,210.09	770,634.35	32.441675°N	103.590062°W
KOP - St	art Build 1.00								
5,224.0	0.24	339.44	5,224.0	0.0	0.0	525,210.14	770,634.33	32.441675°N	103.590062°W
Bell Can	yon								
5,300.0	1.00	339.44	5,300.0	0.8	-0.3	525,210.91	770,634.04	32.441677°N	103.590063°W
5,400.0	2.00	339.44	5,400.0	3.3	-1.2	525,213.36	770,633.12	32.441684°N	103.590066°W
5,481.2	2.81	339.44	5,481.1	6.5	-2.4	525,216.55	770,631.93	32.441692°N	103.590069°W
	3.8 hold at 54								
5,500.0	2.81	339.44	5,499.9	7.3	-2.7	525,217.42	770,631.60	32.441695°N	103.590070°W
5,600.0	2.81	339.44	5,599.7	11.9	-4.5	525,222.01	770,629.88	32.441707°N	103.590076°W
5,700.0	2.81	339.44	5,699.6	16.5	-6.2	525,226.60	770,628.16	32.441720°N	103.590081°W
5,800.0	2.81	339.44	5,799.5	21.1	-7.9	525,231.20	770,626.43	32.441733°N	103.590087°W
5,900.0	2.81	339.44	5,899.4	25.7	-9.6	525,235.79	770,624.71	32.441745°N	103.590092°W
6,000.0	2.81	339.44	5,999.3	30.3	-11.4	525,240.38	770,622.99	32.441758°N	103.590098°W
6,100.0	2.81	339.44	6,099.1	34.9	-13.1	525,244.98	770,621.27	32.441771°N	103.590103°W
6,200.0	2.81	339.44	6,199.0	39.5	-14.8	525,249.57	770,619.54	32.441783°N	103.590109°W
6,300.0	2.81	339.44	6,298.9	44.1	-16.5	525,254.16	770,617.82	32.441796°N	103.590114°W
6,400.0	2.81	339.44	6,398.8	48.7	-18.2	525,258.75	770,616.10	32.441809°N	103.590120°W
6,500.0	2.81	339.44	6,498.7	53.3	-20.0	525,263.35	770,614.38	32.441821°N	103.590125°W
6,600.0	2.81	339.44	6,598.5	57.8	-21.7	525,267.94	770,612.65	32.441834°N	103.590131°W
6,700.0	2.81	339.44	6,698.4	62.4	-23.4	525,272.53	770,610.93	32.441847°N	103.590136°W
6,800.0	2.81	339.44	6,798.3	67.0	-25.1	525,277.13	770,609.21	32.441859°N	103.590142°W
6,900.0	2.81	339.44	6,898.2	71.6	-26.9	525,281.72	770,607.49	32.441872°N	103.590147°W
7,000.0	2.81	339.44	6,998.1	76.2	-28.6	525,286.31	770,605.76	32.441885°N	103.590153°W
7,100.0 7,200.0	2.81 2.81	339.44 339.44	7,097.9	80.8	-30.3 -32.0	525,290.91	770,604.04	32.441897°N	103.590158°W
7,200.0	2.81	339.44	7,197.8 7,297.7	85.4 90.0	-32.0 -33.8	525,295.50 525,300.09	770,602.32 770,600.60	32.441910°N 32.441923°N	103.590164°W 103.590169°W
7,300.0	2.81	339.44	7,297.7	90.0	-33.8	525,300.09	770,600.50	32.441923°N	103.590169°W
		339.44	7,290.0	90.0	-33.0	323,300.11	770,000.39	32.44 1323 N	103.390109 W
7,400.0	2.81	339.44	7,397.6	94.6	-35.5	525,304.69	770,598.87	32.441935°N	103.590175°W
7,400.0	2.81	339.44	7,397.6 7,497.5	94.6	-35.5 -37.2	525,304.69	770,596.67 770,597.15	32.441948°N	103.590175 W
7,600.0	2.81	339.44	7,497.3	103.8	-37.2 -38.9	525,313.87	770,597.13	32.441961°N	103.590180 W
7,000.0	2.81	339.44	7,597.3	103.6	-36.9 -40.6	525,318.47	770,593.43	32.441971 N 32.441973°N	103.590183 W
7,800.0	2.81	339.44	7,797.1	113.0	-42.4	525,323.06	770,593.71	32.441986°N	103.590191 W
7,900.0	2.81	339.44	7,897.0	117.6	-44.1	525,327.65	770,590.26	32.441999°N	103.590202°W
8,000.0	2.81	339.44	7,996.9	122.2	-45.8	525,332.25	770,588.54	32.442011°N	103.590207°W
8,100.0	2.81	339.44	8,096.7	126.7	-47.5	525,336.84	770,586.82	32.442024°N	103.590213°W
8,200.0	2.81	339.44	8,196.6	131.3	-49.3	525,341.43	770,585.09	32.442037°N	103.590218°W
8,300.0	2.81	339.44	8,296.5	135.9	-51.0	525,346.03	770,583.37	32.442049°N	103.590224°W
8,400.0	2.81	339.44	8,396.4	140.5	-52.7	525,350.62	770,581.65	32.442062°N	103.590229°W
8,500.0	2.81	339.44	8,496.3	145.1	-54.4	525,355.21	770,579.93	32.442074°N	103.590235°W
8,600.0	2.81	339.44	8,596.1	149.7	-56.1	525,359.81	770,578.20	32.442087°N	103.590240°W
8,700.0	2.81	339.44	8,696.0	154.3	-57.9	525,364.40	770,576.48	32.442100°N	103.590246°W
8,784.1	2.81	339.44	8,780.0	158.2	-59.3	525,368.26	770,575.03	32.442110°N	103.590250°W
	ring Lime								
8,800.0	2.81	339.44	8,795.9	158.9	-59.6	525,368.99	770,574.76	32.442112°N	103.590251°W
8,900.0	2.81	339.44	8,895.8	163.5	-61.3	525,373.59	770,573.04	32.442125°N	103.590257°W
9,000.0	2.81	339.44	8,995.7	168.1	-63.0	525,378.18	770,571.31	32.442138°N	103.590262°W

#### Planning Report - Geographic

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

Project: Hat Mesa

12,800.0

90.00

179.53

11,347.0

-1,411.7

 Site:
 Dagger Lake North 5 State Com - Pad B

 Well:
 Dagger Lake 5 State Com 913H

 Wellbore:
 Dagger Lake 5 State Com 913H

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Dagger Lake 5 State Com 913H WELL @ 3747.5usft (Original Well Elev) WELL @ 3747.5usft (Original Well Elev) Grid Minimum Curvature

Des	ign:	Dag	ger Lake 5 Sta	ate Com 913H						
Pla	nned Survey	·								
. 14	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	2.81		9,095.5	172.7	-64.8	525,382.77	770,569.59	32.442150°N	103.590268°W
	9,200.0	2.81		9,195.4	177.3	-66.5	525,387.37	770,567.87	32.442163°N	103.590273°W
	9,300.0 9,400.0	2.81 2.81		9,295.3 9,395.2	181.9 186.5	-68.2 -69.9	525,391.96	770,566.15 770,564.43	32.442176°N	103.590279°W
	9,500.0	2.81		9,395.2 9,495.0	191.1	-69.9 -71.6	525,396.55 525,401.15	770,564.43	32.442188°N 32.442201°N	103.590284°W 103.590290°W
	9,600.0	2.81		9,493.0	195.6	-71.0 -73.4	525,405.74	770,560.98	32.442201 N 32.442214°N	103.590290 W
	9,700.0	2.81		9,694.8	200.2	-75.4	525,410.33	770,559.26	32.442226°N	103.590293 VV
	9,800.0	2.81		9,794.7	204.8	-76.8	525,414.93	770,557.54	32.442239°N	103.590306°W
	9,900.0	2.81		9,894.6	209.4	-78.5	525,419.52	770,555.81	32.442252°N	103.590311°W
	10,000.0	2.81		9,994.4	214.0	-80.3	525,424.11	770,554.09	32.442264°N	103.590317°W
	10,024.6	2.81	339.44	10,019.0	215.1	-80.7	525,425.24	770,553.67	32.442267°N	103.590318°W
	First Bor	ne Spring								
	10,100.0	2.81	339.44	10,094.3	218.6	-82.0	525,428.71	770,552.37	32.442277°N	103.590322°W
	10,200.0	2.81		10,194.2	223.2	-83.7	525,433.30	770,550.65	32.442290°N	103.590328°W
	10,300.0	2.81		10,294.1	227.8	-85.4	525,437.89	770,548.92	32.442302°N	103.590333°W
	10,400.0	2.81		10,394.0	232.4	-87.1	525,442.49	770,547.20	32.442315°N	103.590339°W
	10,425.0	2.81	339.44	10,418.9	233.5	-87.6	525,443.63	770,546.77	32.442318°N	103.590340°W
	Start Dro	-								
	10,500.0	2.06		10,493.9	236.5	-88.7	525,446.62	770,545.65	32.442326°N	103.590344°W
	10,600.0	1.06		10,593.8	239.1	-89.7	525,449.17	770,544.69	32.442333°N	103.590347°W
	10,630.2	0.76		10,624.0	239.5	-89.8	525,449.62	770,544.52	32.442335°N	103.590347°W
		Bone Spring		10 602 0	240.0	00.0	EGE 4E0 00	770,544.35	20 440226°N	402 F00240°\N
	10,700.0 10,706.2	0.06 0.00		10,693.8 10,700.0	240.0	-90.0 -90.0	525,450.09 525,450.09	770,544.35	32.442336°N 32.442336°N	103.590348°W 103.590348°W
				10,700.0	240.0	-90.0	323,430.09	110,344.33	32.442330 N	103.390340 W
	10,800.0	0.00 0.00		10,793.8	240.0	-90.0	525,450.09	770,544.35	32.442336°N	103.590348°W
	10,875.8	0.00		10,869.6	240.0	-90.0	525,450.09	770,544.35	32.442336°N	103.590348°W
		Start Build		.0,000.0	2.0.0	00.0	020, 100.00	0,0	02.1.2000 11	100.000010 11
	10,900.0	2.91		10,893.8	239.4	-90.0	525,449.48	770,544.35	32.442334°N	103.590348°W
	11,000.0	14.91		10,992.4	223.9	-89.9	525,434.02	770,544.48	32.442292°N	103.590348°W
	11,100.0	26.91	179.54	11,085.7	188.3	-89.6	525,398.39	770,544.76	32.442194°N	103.590348°W
	11,200.0	38.91	179.54	11,169.5	134.1	-89.2	525,344.16	770,545.20	32.442045°N	103.590348°W
	11,235.2	43.13	179.54	11,196.0	111.0	-89.0	525,321.07	770,545.38	32.441981°N	103.590348°W
	Third Ca	rb								
	11,300.0	50.91		11,240.2	63.6	-88.6	525,273.69	770,545.76	32.441851°N	103.590347°W
	11,400.0	62.91		11,294.6	-20.0	-87.9	525,190.06	770,546.43	32.441621°N	103.590347°W
	11,500.0	74.92		11,330.6	-113.2	-87.2	525,096.93	770,547.17	32.441365°N	103.590347°W
	11,600.0	86.92		11,346.3	-211.7	-86.4	524,998.36	770,547.96	32.441094°N	103.590346°W
	11,625.7	90.00		11,347.0	-237.4	-86.2	524,972.69	770,548.17	32.441024°N	103.590346°W
	FTP - Sta 11,660.7	art 35.0 hold 90.00	at 11625.7 ME 179.54	11,347.0	-272.4	-85.9	524,937.69	770,548.45	32.440928°N	103.590346°W
						-05.9	524,937.09	770,546.45	32.440920 N	103.590346 W
	11,700.0	90.00		State Com 913 11,347.0	-311.7	-85.6	524,898.38	770,548.76	32.440819°N	103.590346°W
	11,800.0	90.00		11,347.0	-311.7 -411.7	-84.8	524,798.38	770,549.56	32.440545°N	103.590346°W
	11,900.0	90.00		11,347.0	-511.7	-84.0	524,698.38	770,550.37	32.440270°N	103.590345°W
	12,000.0	90.00		11,347.0	-611.7	-83.2	524,598.39	770,551.17	32.439995°N	103.590345°W
	12,100.0	90.00		11,347.0	-711.7	-82.4	524,498.39	770,551.98	32.439720°N	103.590345°W
	12,200.0	90.00		11,347.0	-811.7	-81.6	524,398.39	770,552.78	32.439445°N	103.590344°W
	12,300.0	90.00		11,347.0	-911.7	-80.8	524,298.40	770,553.59	32.439170°N	103.590344°W
	12,400.0	90.00	179.54	11,347.0	-1,011.7	-79.9	524,198.40	770,554.40	32.438895°N	103.590344°W
	12,500.0	90.00	179.53	11,347.0	-1,111.7	-79.1	524,098.40	770,555.21	32.438621°N	103.590343°W
	12,600.0	90.00		11,347.0	-1,211.7	-78.3	523,998.41	770,556.02	32.438346°N	103.590343°W
	12,700.0	90.00	179.53	11,347.0	-1,311.7	<b>-77.5</b>	523,898.41	770,556.84	32.438071°N	103.590342°W
- 1	40 000 0	00.00	470.50	44 247 0	4 444 7	70.7	E00 700 44	770 557 65	20 42770CON	400 5000 400 41

523,798.41

770,557.65

32.437796°N

103.590342°W

-76.7

# Planning Report - Geographic

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

Project: Hat Mesa

Site: Dagger Lake North 5 State Com - Pad B
Well: Dagger Lake 5 State Com 913H
Wellbore: Dagger Lake 5 State Com 913H
Design: Dagger Lake 5 State Com 913H

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

North Reference: Survey Calculation Method: Well Dagger Lake 5 State Com 913H WELL @ 3747.5usft (Original Well Elev) WELL @ 3747.5usft (Original Well Elev)

esign:	Dagg	er Lake 5 Sta	ite Com 913H						
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
12,900.0	90.00	179.53	11,347.0	-1,511.7	-75.9	523,698.42	770,558.47	32.437521°N	103.590342°
13,000.0	90.00	179.53	11,347.0	-1,611.7	-75.1	523,598.42	770,559.29	32.437246°N	103.590341°
13,100.0	90.00	179.53	11,347.0	-1,711.7	-74.2	523,498.42	770,560.11	32.436971°N	103.590341°
13,200.0	90.00	179.53	11,347.0	-1,811.7	-73.4	523,398.43	770,560.93	32.436696°N	103.590340°
13,300.0	90.00	179.53	11,347.0	-1,911.7	-72.6	523,298.43	770,561.75	32.436422°N	103.590340°
13,400.0	90.00	179.53	11,347.0	-2,011.7	-71.8	523,198.43	770,562.58	32.436147°N	103.590340°
13,500.0	90.00	179.53	11,347.0	-2,111.7	-70.9	523,098.44	770,563.40	32.435872°N	103.590339°
13,600.0	90.00	179.53	11,347.0	-2,211.7	-70.1	522,998.44	770,564.23	32.435597°N	103.590339°
13,700.0	90.00	179.53	11,347.0	-2,311.6	-69.3	522,898.44	770,565.05	32.435322°N	103.590338°
13,800.0	90.00	179.52	11,347.0	-2,411.6	-68.5	522,798.45	770,565.88	32.435047°N	103.590338°
13,900.0	90.00	179.52	11,347.0	-2,511.6	-67.6	522,698.45	770,566.71	32.434772°N	103.590338°
14,000.0	90.00	179.52	11,347.0	-2,611.6	-66.8	522,598.46	770,567.55	32.434498°N	103.590337°
14,100.0	90.00	179.52	11,347.0	-2,711.6	-66.0	522,498.46	770,568.38	32.434223°N	103.590337°
14,200.0	90.00	179.52	11,347.0	-2,811.6	-65.1	522,398.46	770,569.21	32.433948°N	103.590336°
14,300.0	90.00	179.52	11,347.0	-2,911.6	-64.3	522,298.47	770,570.05	32.433673°N	103.590336
14,400.0	90.00	179.52	11,347.0	-3,011.6	-63.5	522,198.47	770,570.89	32.433398°N	103.590335
14,500.0	90.00	179.52	11,347.0	-3,111.6	-62.6	522,098.47	770,571.73	32.433123°N	103.590335
14,600.0	90.00	179.52	11,347.0	-3,211.6	-61.8	521,998.48	770,572.57	32.432848°N	103.590334
14,700.0	90.00	179.52	11,347.0	-3,311.6	-60.9	521,898.48	770,573.41	32.432574°N	103.590334
14,800.0	90.00	179.52	11,347.0	-3,411.6	-60.1	521,798.48	770,574.25	32.432299°N	103.590333
14,900.0	90.00	179.52	11,347.0	-3,511.6	-59.3	521,698.49	770,575.10	32.432024°N	103.590333
15,000.0	90.00	179.51	11,347.0	-3,611.6	-58.4	521,598.49	770,575.94	32.431749°N	103.590332
15,100.0	90.00	179.51	11,347.0	-3,711.6	-57.6	521,498.49	770,576.79	32.431474°N	103.590332
15,200.0	90.00	179.51	11,347.0	-3,811.6	-56.7	521,398.50	770,577.64	32.431199°N	103.590331
15,300.0	90.00	179.51	11,347.0	-3,911.6	-55.9	521,298.50	770,578.49	32.430924°N	103.590331
15,400.0	90.00	179.51	11,347.0	-4,011.6	-55.0	521,198.50	770,579.34	32.430649°N	103.590330
15,500.0	90.00	179.51	11,347.0	-4,111.6	-54.2	521,098.51	770,580.19	32.430375°N	103.590330
15,600.0	90.00	179.51	11,347.0	-4,211.6	-53.3	520,998.51	770,581.05	32.430100°N	103.590329
15,700.0	90.00	179.51	11,347.0	-4,311.6	-52.4	520,898.52	770,581.90	32.429825°N	103.590329
15,800.0	90.00	179.51	11,347.0	-4,411.6	-51.6	520,798.52	770,582.76	32.429550°N	103.590328
15,900.0	90.00	179.51	11,347.0	-4,511.6	-50.7	520,698.52	770,583.62	32.429275°N	103.590328
16,000.0	90.00	179.51	11,347.0	-4,611.6	-49.9	520,598.53	770,584.48	32.429000°N	103.590327
16,100.0	90.00	179.51	11,347.0	-4,711.6	-49.0	520,498.53	770,585.34	32.428725°N	103.590327
16,200.0	90.00	179.51	11,347.0	-4,811.6	-48.1	520,398.53	770,586.20	32.428451°N	103.590326
16,300.0	90.00	179.50	11,347.0	-4,911.6	-47.3	520,298.54	770,587.07	32.428176°N	103.590326
16,400.0	90.00	179.50	11,347.0	-5,011.6	-46.4	520,198.54	770,587.93	32.427901°N	103.590325
16,500.0	90.00	179.50	11,347.0	-5,111.5	-45.5	520,098.55	770,588.80	32.427626°N	103.590325
16,600.0	90.00	179.50	11,347.0	-5,211.5	-44.7	519,998.55	770,589.67	32.427351°N	103.590324
16,700.0	90.00	179.50	11,347.0	-5,311.5	-43.8	519,898.55	770,590.54	32.427076°N	103.590323
16,800.0	90.00	179.50	11,347.0	-5,411.5	-42.9	519,798.56	770,591.41	32.426801°N	103.590323
16,900.0	90.00	179.50	11,347.0	-5,511.5	-42.1	519,698.56	770,592.28	32.426526°N	103.590322
17,000.0	90.00	179.50	11,347.0	-5,611.5	-41.2	519,598.56	770,593.16	32.426252°N	103.590322
17,100.0	90.00	179.50	11,347.0	-5,711.5	-40.3	519,498.57	770,594.03	32.425977°N	103.590321
17,200.0	90.00	179.50	11,347.0	-5,811.5	-39.4	519,398.57	770,594.91	32.425702°N	103.590321
17,300.0	90.00	179.50	11,347.0	-5,911.5	-38.6	519,298.58	770,595.78	32.425427°N	103.590320
17,400.0	90.00	179.50	11,347.0	-6,011.5	-37.7	519,198.58	770,596.66	32.425152°N	103.590319
17,500.0	90.00	179.49	11,347.0	-6,111.5	-36.8	519,098.58	770,597.55	32.424877°N	103.590319
17,600.0	90.00	179.49	11,347.0	-6,211.5	-35.9	518,998.59	770,598.43	32.424602°N	103.590318
17,700.0	90.00	179.49	11,347.0	-6,311.5	-35.0	518,898.59	770,599.31	32.424328°N	103.590318
17,800.0	90.00	179.49	11,347.0	-6,411.5	-34.2	518,798.60	770,600.20	32.424053°N	103.590317
17,900.0	90.00	179.49	11,347.0	-6,511.5	-33.3	518,698.60	770,601.08	32.423778°N	103.590316
18,000.0	90.00	179.49	11,347.0	-6,611.5	-32.4	518,598.60	770,601.97	32.423503°N	103.590316
18,100.0	90.00	179.49	11,347.0	-6,711.5	-31.5	518,498.61	770,602.86	32.423228°N	103.590315
18,200.0	90.00	179.49	11,347.0	-6,811.5	-30.6	518,398.61	770,603.75	32.422953°N	103.590314
18,300.0	90.00	179.49	11,347.0	-6,911.5	-29.7	518,298.62	770,604.64	32.422678°N	103.590314

# Planning Report - Geographic

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

Project: Hat Mesa

Site:Dagger Lake North 5 State Com - Pad BWell:Dagger Lake 5 State Com 913HWellbore:Dagger Lake 5 State Com 913HDesign:Dagger Lake 5 State Com 913H

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Dagger Lake 5 State Com 913H WELL @ 3747.5usft (Original Well Elev) WELL @ 3747.5usft (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
18,400.0	90.00	179.49	11,347.0	-7,011.5	-28.8	518,198.62	770,605.53	32.422404°N	103.590313°W
18,500.0	90.00	179.49	11,347.0	-7,111.5	-27.9	518,098.62	770,606.43	32.422129°N	103.590312°W
18,600.0	90.00	179.49	11,347.0	-7,211.5	-27.0	517,998.63	770,607.33	32.421854°N	103.590312°W
18,700.0	90.00	179.49	11,347.0	-7,311.5	-26.1	517,898.63	770,608.22	32.421579°N	103.590311°W
18,800.0	90.00	179.48	11,347.0	-7,411.5	-25.2	517,798.64	770,609.12	32.421304°N	103.590311°W
18,867.0	90.00	179.48	11,347.0	-7,478.4	-24.6	517,731.67	770,609.72	32.421120°N	103.590310°W
LTP - Sta	art DLS 0.75 T	FO 90.00 - DL	N 5 State Com	913H LTP					
18,900.0	90.00	179.73	11,347.0	-7,511.5	-24.4	517,698.64	770,609.95	32.421029°N	103.590310°W
18,917.0	90.00	179.86	11,347.0	-7,528.4	-24.3	517,681.68	770,610.01	32.420983°N	103.590310°W
TD at 189	917.0 - DLN 5	State Com 91	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 913H - plan hits target cen - Point	0.00 ter	0.00	11,347.0	-7,478.4	-24.6	517,731.67	770,609.72	32.421120°N	103.590310°W
DLN 5 State Com 913H - plan hits target cen - Point	0.00 ter	0.00	11,347.0	-7,528.4	-24.3	517,681.68	770,610.01	32.420983°N	103.590310°W
DLN 5 State Com 913H - plan hits target cen - Point	0.00 ter	0.00	11,347.0	-272.4	-85.9	524,937.69	770,548.45	32.440928°N	103.590346°W

Casing Points						
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter	
	(usft)	(usft)	Name	(")	(")	
	10,656.2	10,650.0 L	Р	5-1/2	5-1/2	

ormations							
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,549.0	1,549.0	Rustler				
	1,975.0	1,975.0	Salado				
	3,178.0	3,178.0	Tansill				
	3,463.0	3,463.0	Capitan				
	5,224.0	5,224.0	Bell Canyon				
	7,300.3	7,298.0	Brushy Canyon				
	8,784.1	8,780.0	Bone Spring Lime				
	10,024.6	10,019.0	First Bone Spring				
	10,630.2	10,624.0	Second Bone Spring				
	11,235.2	11,196.0	Third Carb				

# Planning Report - Geographic

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

Project: Hat Mesa

Design:

Site:Dagger Lake North 5 State Com - Pad BWell:Dagger Lake 5 State Com 913HWellbore:Dagger Lake 5 State Com 913H

Dagger Lake 5 State Com 913H

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Dagger Lake 5 State Com 913H WELL @ 3747.5usft (Original Well Elev) WELL @ 3747.5usft (Original Well Elev)

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coord +N/-S (usft)	dinates +E/-W (usft)	Comment	
5,200.0	5,200.0	0.0	0.0	KOP - Start Build 1.00	
5,481.2	5,481.1	6.5	-2.4	Start 4943.8 hold at 5481.2 MD	
10,425.0	10,418.9	233.5	-87.6	Start Drop -1.00	
10,706.2	10,700.0	240.0	-90.0	Start 169.6 hold at 10706.2 MD	
10,875.8	10,869.6	240.0	-90.0	KOP #2 - Start Build 12.00	
11,625.7	11,347.0	-237.4	-86.2	FTP - Start 35.0 hold at 11625.7 MD	
11,660.7	11,347.0	-272.4	-85.9	Start DLS 0.00 TFO -90.00	
18,867.0	11,347.0	-7,478.4	-24.6	LTP - Start DLS 0.75 TFO 90.00	
18,917.0	11,347.0	-7,528.4	-24.3	TD at 18917.0	

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

Other, please describe  Well(s): Provide the recompleted from a significant si	e following infor		w or recompleted	d well or set of v	vells proposed to	be drilled 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 073H	30-025-	A-32-21S-33E	402.5' FNL & 1250' FEL	778	1474	4848
Dagger Lake 5 State Com 093H	30-025-	A-32-21S-33E	312.5' FNL & 1250' FEL	902	1353	4730
Dagger Lake 5 State Com 823H	30-025-	A-32-21S-33E	372.5' FNL & 1250' FEL	993	1052	3643
Dagger Lake 5 State Com 913H	30-025-	A-32-21S-33E	342.5' FNL & 1250' FEL	1092	1342	2541

**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 073H	30-025-	10/07/2024	10/27/2024	04/03/2024	05/12/2024	05/15/2024
Dagger Lake 5 State Com 093H	30-025-	12/12/2024	01/01/2025	04/03/2024	05/12/2024	05/15/2024
Dagger Lake 5 State Com 823H	30-025-	10/29/2024	11/18/2024	04/03/2024	05/12/2024	05/15/2024
Dagger Lake 5 State Com 913H	30-025-	01/25/2025	02/14/2025	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%	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	rell(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 · · · · · ·	~ ~			promore		Tespons.					p1 - 555 - 51 - 5

XIV. Confidentiality: $\Box$ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information providentiality.	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

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: power generation on lease; (a) **(b)** power generation for grid; compression on lease; (c) (d) liquids removal on lease; reinjection for underground storage; (e) **(f)** reinjection for temporary storage; **(g)** reinjection for enhanced oil recovery; fuel cell production; and (h)

# **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