

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

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

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

Form C-101
August 1, 2011
Permit 272949

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

1. Operator Name and Address ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077		2. OGRID Number 372417
4. Property Code 319599		3. API Number 30-025-46437
5. Property Name DAGGER LAKE 5 STATE COM		6. Well No. 803H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
K	5	22S	33E	K	1940	S	1963	W	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
C	32	21S	33E	C	100	N	1980	W	Lea

9. Pool Information

WC-025 G-10 S213328O;WOLFCAMP	98033
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3654
16. Multiple N	17. Proposed Depth 21300	18. Formation Wolfcamp	19. Contractor	20. Spud Date 10/4/2019
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	14.75	10.75	40.5	1100	585	0
Int1	9.875	7.625	29.7	10550	700	0
Prod	6.75	5.5	20	21300	1065	0

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable. Signature:	OIL CONSERVATION DIVISION
Printed Name: Electronically filed by David C Harwell	Approved By: Paul F Kautz
Title: VP Engineering	Title: Geologist
Email Address: dharwell@advanceenergypartners.com	Approved Date: 10/17/2019 Expiration Date: 10/17/2021
Date: 10/7/2019 Phone: 832-672-4604	Conditions of Approval Attached

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State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 4, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-46437	Pool Code 98033	Pool Name WC-025 G-10 S213328O;WOLFCAMP
Property Code 319599	Property Name DAGGER LAKE 5 STATE COM	Well Number 803H
OGRID No. 372417	Operator Name ADVANCE ENERGY PARTNERS HAT MESA	Elevation 3654'

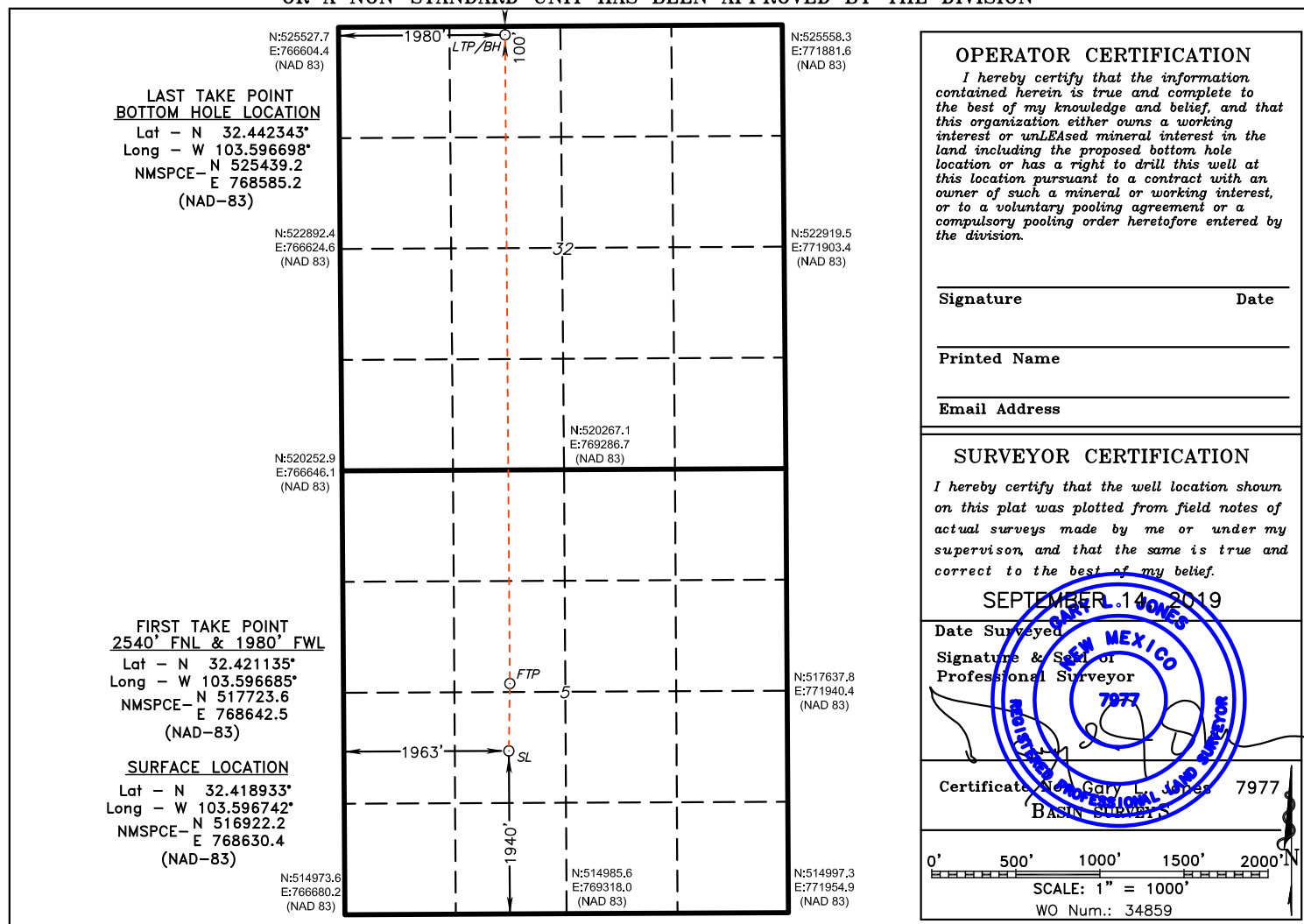
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
K	5	22 S	33 E		1940	SOUTH	1963	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
C	32	21 S	33 E		100	NORTH	1980	WEST	LEA
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



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GAS CAPTURE PLAN

Date: 10/17/2019

☒ Original

Operator & OGRID No.: [372417] ADVANCE ENERGY PARTNERS HAT MESA, LLC

☐ Amended - Reason for
Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
DAGGER LAKE 5 STATE COM #803H	30-025-46437	K-5-22S-33E	1940S 1963W	1000	Flared	Flaring during initial testing and cleanup

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to TARGA MIDSTREAM SERVICES LLC and will be connected to TARGA MIDSTREAM SERVICES LLC Low Pressure gathering system located in Lea County, New Mexico. It will require 1500' of pipeline to connect the facility to Low Pressure gathering system. ADVANCE ENERGY PARTNERS HAT MESA, LLC provides (periodically) to TARGA MIDSTREAM SERVICES LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, ADVANCE ENERGY PARTNERS HAT MESA, LLC and TARGA MIDSTREAM SERVICES LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at TARGA MIDSTREAM SERVICES LLC Processing Plant located in Sec. 36, Twn. 19S, Rng. 36E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on TARGA MIDSTREAM SERVICES LLC system at that time. Based on current information, it is ADVANCE ENERGY PARTNERS HAT MESA, LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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Form APD Comments

Permit 272949

PERMIT COMMENTS

Operator Name and Address: ADVANCE ENERGY PARTNERS HAT MESA, LLC [372417] 11490 Westheimer Rd., Ste 950 Houston, TX 77077		API Number: 30-025-46437
		Well: DAGGER LAKE 5 STATE COM #803H

Created By	Comment	Comment Date
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Form APD Conditions

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

Permit 272949

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: ADVANCE ENERGY PARTNERS HAT MESA, LLC [372417] 11490 Westheimer Rd., Ste 950 Houston, TX 77077	API Number: 30-025-46437
	Well: DAGGER LAKE 5 STATE COM #803H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD. If an APD expires and if site construction has occurred, site remediation is required.
pkautz	Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool at 5753703186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.

Advance Energy Partners

**Lea County, NM (NAD 83 NME)
(Dagger Lake)Sec5_T-22-S_R-33-E
Dagger Lake 5 State Com #803H**

OWB

Plan: Plan 0.1

Standard Planning Report

04 October, 2019



Database:	EDM 10_13	Local Co-ordinate Reference:	Well Dagger Lake 5 State Com #803H
Company:	Advance Energy Partners	TVD Reference:	KB @ 3679.5usft (H&P 466)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3679.5usft (H&P 466)
Site:	(Dagger Lake)Sec5_T-22-S_R-33-E	North Reference:	Grid
Well:	Dagger Lake 5 State Com #803H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan 0.1		

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	(Dagger Lake)Sec5_T-22-S_R-33-E		
Site Position:		Northing:	516,922.00 usft
From:	Map	Easting:	768,597.30 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 25' 8.158 N
		Longitude:	103° 35' 48.657 W
		Grid Convergence:	0.39 °

Well	Dagger Lake 5 State Com #803H		
Well Position	+N/-S	0.2 usft	Northing: 516,922.20 usft
	+E/-W	33.1 usft	Easting: 768,630.40 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 25' 8.158 N
			Longitude: 103° 35' 48.271 W
			Ground Level: 3,654.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/04/2019	6.73	60.21	47,812.50553952

Design	Plan 0.1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.70

Plan Survey Tool Program	Date	10/04/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,382.8 Plan 0.1 (OWB)	MWD	
			OWSG MWD - Standard	

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	
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,799.8	4.00	4.36	5,799.5	13.9	1.1	1.00	1.00	0.00	4.36	
8,607.7	4.00	4.36	8,600.5	209.1	15.9	0.00	0.00	0.00	0.00	
9,007.5	0.00	0.00	9,000.0	223.0	17.0	1.00	-1.00	0.00	180.00	
11,761.5	0.00	0.00	11,754.0	223.0	17.0	0.00	0.00	0.00	0.00	
12,661.5	90.00	359.57	12,327.0	795.9	12.7	10.00	10.00	-0.05	359.57	
20,382.8	90.00	359.57	12,327.0	8,517.0	-45.2	0.00	0.00	0.00	0.00	LTP/PBHL (Dagger)

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Site:	(Dagger Lake)Sec5_T-22-S_R-33-E	North Reference:	Grid
Well:	Dagger Lake 5 State Com #803H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

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Wellbore:	OWB		
Design:	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	1.00	4.36	5,500.0	0.9	0.1	0.9	1.00	1.00	0.00
5,600.0	2.00	4.36	5,600.0	3.5	0.3	3.5	1.00	1.00	0.00
5,700.0	3.00	4.36	5,699.9	7.8	0.6	7.8	1.00	1.00	0.00
5,799.8	4.00	4.36	5,799.5	13.9	1.1	13.9	1.00	1.00	0.00
5,900.0	4.00	4.36	5,899.4	20.9	1.6	20.9	0.00	0.00	0.00
6,000.0	4.00	4.36	5,999.2	27.8	2.1	27.8	0.00	0.00	0.00
6,100.0	4.00	4.36	6,098.9	34.8	2.7	34.8	0.00	0.00	0.00
6,200.0	4.00	4.36	6,198.7	41.7	3.2	41.7	0.00	0.00	0.00
6,300.0	4.00	4.36	6,298.5	48.7	3.7	48.7	0.00	0.00	0.00
6,400.0	4.00	4.36	6,398.2	55.6	4.2	55.6	0.00	0.00	0.00
6,500.0	4.00	4.36	6,498.0	62.6	4.8	62.6	0.00	0.00	0.00
6,600.0	4.00	4.36	6,597.7	69.5	5.3	69.5	0.00	0.00	0.00
6,700.0	4.00	4.36	6,697.5	76.5	5.8	76.4	0.00	0.00	0.00
6,800.0	4.00	4.36	6,797.2	83.4	6.4	83.4	0.00	0.00	0.00
6,900.0	4.00	4.36	6,897.0	90.4	6.9	90.3	0.00	0.00	0.00
7,000.0	4.00	4.36	6,996.8	97.3	7.4	97.3	0.00	0.00	0.00
7,100.0	4.00	4.36	7,096.5	104.3	8.0	104.2	0.00	0.00	0.00
7,200.0	4.00	4.36	7,196.3	111.2	8.5	111.2	0.00	0.00	0.00
7,300.0	4.00	4.36	7,296.0	118.2	9.0	118.1	0.00	0.00	0.00
7,400.0	4.00	4.36	7,395.8	125.1	9.5	125.1	0.00	0.00	0.00
7,500.0	4.00	4.36	7,495.5	132.1	10.1	132.0	0.00	0.00	0.00
7,600.0	4.00	4.36	7,595.3	139.0	10.6	139.0	0.00	0.00	0.00
7,700.0	4.00	4.36	7,695.1	146.0	11.1	145.9	0.00	0.00	0.00
7,800.0	4.00	4.36	7,794.8	152.9	11.7	152.9	0.00	0.00	0.00
7,900.0	4.00	4.36	7,894.6	159.9	12.2	159.8	0.00	0.00	0.00
8,000.0	4.00	4.36	7,994.3	166.9	12.7	166.8	0.00	0.00	0.00
8,100.0	4.00	4.36	8,094.1	173.8	13.2	173.7	0.00	0.00	0.00
8,200.0	4.00	4.36	8,193.8	180.8	13.8	180.7	0.00	0.00	0.00
8,300.0	4.00	4.36	8,293.6	187.7	14.3	187.6	0.00	0.00	0.00
8,400.0	4.00	4.36	8,393.3	194.7	14.8	194.6	0.00	0.00	0.00
8,500.0	4.00	4.36	8,493.1	201.6	15.4	201.5	0.00	0.00	0.00
8,607.7	4.00	4.36	8,600.5	209.1	15.9	209.0	0.00	0.00	0.00
8,700.0	3.07	4.36	8,692.7	214.8	16.4	214.7	1.00	-1.00	0.00
8,800.0	2.07	4.36	8,792.6	219.3	16.7	219.2	1.00	-1.00	0.00
8,900.0	1.07	4.36	8,892.5	222.0	16.9	221.9	1.00	-1.00	0.00
9,007.5	0.00	0.00	9,000.0	223.0	17.0	222.9	1.00	-1.00	0.00
9,100.0	0.00	0.00	9,092.5	223.0	17.0	222.9	0.00	0.00	0.00
9,200.0	0.00	0.00	9,192.5	223.0	17.0	222.9	0.00	0.00	0.00
9,300.0	0.00	0.00	9,292.5	223.0	17.0	222.9	0.00	0.00	0.00
9,400.0	0.00	0.00	9,392.5	223.0	17.0	222.9	0.00	0.00	0.00
9,500.0	0.00	0.00	9,492.5	223.0	17.0	222.9	0.00	0.00	0.00
9,600.0	0.00	0.00	9,592.5	223.0	17.0	222.9	0.00	0.00	0.00
9,700.0	0.00	0.00	9,692.5	223.0	17.0	222.9	0.00	0.00	0.00
9,800.0	0.00	0.00	9,792.5	223.0	17.0	222.9	0.00	0.00	0.00
9,900.0	0.00	0.00	9,892.5	223.0	17.0	222.9	0.00	0.00	0.00
10,000.0	0.00	0.00	9,992.5	223.0	17.0	222.9	0.00	0.00	0.00
10,100.0	0.00	0.00	10,092.5	223.0	17.0	222.9	0.00	0.00	0.00
10,200.0	0.00	0.00	10,192.5	223.0	17.0	222.9	0.00	0.00	0.00
10,300.0	0.00	0.00	10,292.5	223.0	17.0	222.9	0.00	0.00	0.00
10,400.0	0.00	0.00	10,392.5	223.0	17.0	222.9	0.00	0.00	0.00
10,500.0	0.00	0.00	10,492.5	223.0	17.0	222.9	0.00	0.00	0.00
10,600.0	0.00	0.00	10,592.5	223.0	17.0	222.9	0.00	0.00	0.00
10,700.0	0.00	0.00	10,692.5	223.0	17.0	222.9	0.00	0.00	0.00

Database:	EDM 10_13	Local Co-ordinate Reference:	Well Dagger Lake 5 State Com #803H
Company:	Advance Energy Partners	TVD Reference:	KB @ 3679.5usft (H&P 466)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3679.5usft (H&P 466)
Site:	(Dagger Lake)Sec5_T-22-S_R-33-E	North Reference:	Grid
Well:	Dagger Lake 5 State Com #803H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,800.0	0.00	0.00	10,792.5	223.0	17.0	222.9	0.00	0.00	0.00
10,900.0	0.00	0.00	10,892.5	223.0	17.0	222.9	0.00	0.00	0.00
11,000.0	0.00	0.00	10,992.5	223.0	17.0	222.9	0.00	0.00	0.00
11,100.0	0.00	0.00	11,092.5	223.0	17.0	222.9	0.00	0.00	0.00
11,200.0	0.00	0.00	11,192.5	223.0	17.0	222.9	0.00	0.00	0.00
11,300.0	0.00	0.00	11,292.5	223.0	17.0	222.9	0.00	0.00	0.00
11,400.0	0.00	0.00	11,392.5	223.0	17.0	222.9	0.00	0.00	0.00
11,500.0	0.00	0.00	11,492.5	223.0	17.0	222.9	0.00	0.00	0.00
11,600.0	0.00	0.00	11,592.5	223.0	17.0	222.9	0.00	0.00	0.00
11,700.0	0.00	0.00	11,692.5	223.0	17.0	222.9	0.00	0.00	0.00
11,761.5	0.00	0.00	11,754.0	223.0	17.0	222.9	0.00	0.00	0.00
11,800.0	3.85	359.57	11,792.5	224.3	17.0	224.2	10.00	10.00	0.00
11,850.0	8.85	359.57	11,842.2	229.8	16.9	229.7	10.00	10.00	0.00
11,900.0	13.85	359.57	11,891.2	239.7	16.9	239.6	10.00	10.00	0.00
11,950.0	18.85	359.57	11,939.1	253.7	16.8	253.6	10.00	10.00	0.00
12,000.0	23.85	359.57	11,985.7	271.9	16.6	271.8	10.00	10.00	0.00
12,050.0	28.85	359.57	12,030.5	294.1	16.5	294.0	10.00	10.00	0.00
12,100.0	33.85	359.57	12,073.2	320.1	16.3	320.0	10.00	10.00	0.00
12,150.0	38.85	359.57	12,113.4	349.8	16.0	349.7	10.00	10.00	0.00
12,200.0	43.85	359.57	12,150.9	382.8	15.8	382.7	10.00	10.00	0.00
12,250.0	48.85	359.57	12,185.4	418.9	15.5	418.9	10.00	10.00	0.00
12,300.0	53.85	359.57	12,216.7	458.0	15.2	457.9	10.00	10.00	0.00
12,350.0	58.85	359.57	12,244.4	499.6	14.9	499.5	10.00	10.00	0.00
12,400.0	63.85	359.57	12,268.3	543.5	14.6	543.4	10.00	10.00	0.00
12,450.0	68.85	359.57	12,288.4	589.2	14.3	589.2	10.00	10.00	0.00
12,500.0	73.85	359.57	12,304.4	636.6	13.9	636.5	10.00	10.00	0.00
12,550.0	78.85	359.57	12,316.1	685.2	13.5	685.1	10.00	10.00	0.00
12,600.0	83.85	359.57	12,323.7	734.6	13.2	734.5	10.00	10.00	0.00
12,650.0	88.85	359.57	12,326.8	784.5	12.8	784.4	10.00	10.00	0.00
12,661.5	90.00	359.57	12,327.0	795.9	12.7	795.9	10.00	10.00	0.00
12,700.0	90.00	359.57	12,327.0	834.5	12.4	834.4	0.00	0.00	0.00
12,800.0	90.00	359.57	12,327.0	934.5	11.7	934.4	0.00	0.00	0.00
12,900.0	90.00	359.57	12,327.0	1,034.5	10.9	1,034.4	0.00	0.00	0.00
13,000.0	90.00	359.57	12,327.0	1,134.5	10.2	1,134.4	0.00	0.00	0.00
13,100.0	90.00	359.57	12,327.0	1,234.4	9.4	1,234.4	0.00	0.00	0.00
13,200.0	90.00	359.57	12,327.0	1,334.4	8.7	1,334.4	0.00	0.00	0.00
13,300.0	90.00	359.57	12,327.0	1,434.4	7.9	1,434.4	0.00	0.00	0.00
13,400.0	90.00	359.57	12,327.0	1,534.4	7.2	1,534.4	0.00	0.00	0.00
13,500.0	90.00	359.57	12,327.0	1,634.4	6.4	1,634.4	0.00	0.00	0.00
13,600.0	90.00	359.57	12,327.0	1,734.4	5.7	1,734.4	0.00	0.00	0.00
13,700.0	90.00	359.57	12,327.0	1,834.4	4.9	1,834.4	0.00	0.00	0.00
13,800.0	90.00	359.57	12,327.0	1,934.4	4.2	1,934.4	0.00	0.00	0.00
13,900.0	90.00	359.57	12,327.0	2,034.4	3.4	2,034.4	0.00	0.00	0.00
14,000.0	90.00	359.57	12,327.0	2,134.4	2.7	2,134.4	0.00	0.00	0.00
14,100.0	90.00	359.57	12,327.0	2,234.4	1.9	2,234.4	0.00	0.00	0.00
14,200.0	90.00	359.57	12,327.0	2,334.4	1.2	2,334.4	0.00	0.00	0.00
14,300.0	90.00	359.57	12,327.0	2,434.4	0.4	2,434.4	0.00	0.00	0.00
14,400.0	90.00	359.57	12,327.0	2,534.4	-0.3	2,534.4	0.00	0.00	0.00
14,500.0	90.00	359.57	12,327.0	2,634.4	-1.1	2,634.4	0.00	0.00	0.00
14,600.0	90.00	359.57	12,327.0	2,734.4	-1.8	2,734.4	0.00	0.00	0.00
14,700.0	90.00	359.57	12,327.0	2,834.4	-2.6	2,834.4	0.00	0.00	0.00
14,800.0	90.00	359.57	12,327.0	2,934.4	-3.3	2,934.4	0.00	0.00	0.00
14,900.0	90.00	359.57	12,327.0	3,034.4	-4.1	3,034.4	0.00	0.00	0.00
15,000.0	90.00	359.57	12,327.0	3,134.4	-4.8	3,134.4	0.00	0.00	0.00

Database:	EDM 10_13	Local Co-ordinate Reference:	Well Dagger Lake 5 State Com #803H
Company:	Advance Energy Partners	TVD Reference:	KB @ 3679.5usft (H&P 466)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3679.5usft (H&P 466)
Site:	(Dagger Lake)Sec5_T-22-S_R-33-E	North Reference:	Grid
Well:	Dagger Lake 5 State Com #803H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,100.0	90.00	359.57	12,327.0	3,234.4	-5.6	3,234.4	0.00	0.00	0.00
15,200.0	90.00	359.57	12,327.0	3,334.4	-6.3	3,334.4	0.00	0.00	0.00
15,300.0	90.00	359.57	12,327.0	3,434.4	-7.1	3,434.4	0.00	0.00	0.00
15,400.0	90.00	359.57	12,327.0	3,534.4	-7.8	3,534.4	0.00	0.00	0.00
15,500.0	90.00	359.57	12,327.0	3,634.4	-8.6	3,634.4	0.00	0.00	0.00
15,600.0	90.00	359.57	12,327.0	3,734.4	-9.3	3,734.4	0.00	0.00	0.00
15,700.0	90.00	359.57	12,327.0	3,834.4	-10.1	3,834.4	0.00	0.00	0.00
15,800.0	90.00	359.57	12,327.0	3,934.4	-10.8	3,934.4	0.00	0.00	0.00
15,900.0	90.00	359.57	12,327.0	4,034.4	-11.6	4,034.4	0.00	0.00	0.00
16,000.0	90.00	359.57	12,327.0	4,134.4	-12.3	4,134.4	0.00	0.00	0.00
16,100.0	90.00	359.57	12,327.0	4,234.4	-13.1	4,234.4	0.00	0.00	0.00
16,200.0	90.00	359.57	12,327.0	4,334.4	-13.8	4,334.4	0.00	0.00	0.00
16,300.0	90.00	359.57	12,327.0	4,434.4	-14.6	4,434.4	0.00	0.00	0.00
16,400.0	90.00	359.57	12,327.0	4,534.4	-15.3	4,534.4	0.00	0.00	0.00
16,500.0	90.00	359.57	12,327.0	4,634.4	-16.1	4,634.4	0.00	0.00	0.00
16,600.0	90.00	359.57	12,327.0	4,734.3	-16.8	4,734.4	0.00	0.00	0.00
16,700.0	90.00	359.57	12,327.0	4,834.3	-17.6	4,834.4	0.00	0.00	0.00
16,800.0	90.00	359.57	12,327.0	4,934.3	-18.3	4,934.4	0.00	0.00	0.00
16,900.0	90.00	359.57	12,327.0	5,034.3	-19.1	5,034.4	0.00	0.00	0.00
17,000.0	90.00	359.57	12,327.0	5,134.3	-19.8	5,134.4	0.00	0.00	0.00
17,100.0	90.00	359.57	12,327.0	5,234.3	-20.6	5,234.4	0.00	0.00	0.00
17,200.0	90.00	359.57	12,327.0	5,334.3	-21.3	5,334.4	0.00	0.00	0.00
17,300.0	90.00	359.57	12,327.0	5,434.3	-22.1	5,434.4	0.00	0.00	0.00
17,400.0	90.00	359.57	12,327.0	5,534.3	-22.8	5,534.4	0.00	0.00	0.00
17,500.0	90.00	359.57	12,327.0	5,634.3	-23.6	5,634.4	0.00	0.00	0.00
17,600.0	90.00	359.57	12,327.0	5,734.3	-24.3	5,734.4	0.00	0.00	0.00
17,700.0	90.00	359.57	12,327.0	5,834.3	-25.1	5,834.4	0.00	0.00	0.00
17,800.0	90.00	359.57	12,327.0	5,934.3	-25.8	5,934.4	0.00	0.00	0.00
17,900.0	90.00	359.57	12,327.0	6,034.3	-26.6	6,034.4	0.00	0.00	0.00
18,000.0	90.00	359.57	12,327.0	6,134.3	-27.3	6,134.4	0.00	0.00	0.00
18,100.0	90.00	359.57	12,327.0	6,234.3	-28.1	6,234.4	0.00	0.00	0.00
18,200.0	90.00	359.57	12,327.0	6,334.3	-28.8	6,334.4	0.00	0.00	0.00
18,300.0	90.00	359.57	12,327.0	6,434.3	-29.6	6,434.4	0.00	0.00	0.00
18,400.0	90.00	359.57	12,327.0	6,534.3	-30.3	6,534.4	0.00	0.00	0.00
18,500.0	90.00	359.57	12,327.0	6,634.3	-31.1	6,634.4	0.00	0.00	0.00
18,600.0	90.00	359.57	12,327.0	6,734.3	-31.8	6,734.4	0.00	0.00	0.00
18,700.0	90.00	359.57	12,327.0	6,834.3	-32.6	6,834.4	0.00	0.00	0.00
18,800.0	90.00	359.57	12,327.0	6,934.3	-33.3	6,934.4	0.00	0.00	0.00
18,900.0	90.00	359.57	12,327.0	7,034.3	-34.1	7,034.4	0.00	0.00	0.00
19,000.0	90.00	359.57	12,327.0	7,134.3	-34.8	7,134.4	0.00	0.00	0.00
19,100.0	90.00	359.57	12,327.0	7,234.3	-35.6	7,234.4	0.00	0.00	0.00
19,200.0	90.00	359.57	12,327.0	7,334.3	-36.3	7,334.4	0.00	0.00	0.00
19,300.0	90.00	359.57	12,327.0	7,434.3	-37.1	7,434.4	0.00	0.00	0.00
19,400.0	90.00	359.57	12,327.0	7,534.3	-37.8	7,534.4	0.00	0.00	0.00
19,500.0	90.00	359.57	12,327.0	7,634.3	-38.6	7,634.4	0.00	0.00	0.00
19,600.0	90.00	359.57	12,327.0	7,734.3	-39.3	7,734.4	0.00	0.00	0.00
19,700.0	90.00	359.57	12,327.0	7,834.3	-40.1	7,834.4	0.00	0.00	0.00
19,800.0	90.00	359.57	12,327.0	7,934.3	-40.8	7,934.4	0.00	0.00	0.00
19,900.0	90.00	359.57	12,327.0	8,034.3	-41.6	8,034.4	0.00	0.00	0.00
20,000.0	90.00	359.57	12,327.0	8,134.3	-42.3	8,134.4	0.00	0.00	0.00
20,100.0	90.00	359.57	12,327.0	8,234.3	-43.1	8,234.4	0.00	0.00	0.00
20,200.0	90.00	359.57	12,327.0	8,334.2	-43.8	8,334.4	0.00	0.00	0.00
20,300.0	90.00	359.57	12,327.0	8,434.2	-44.6	8,434.4	0.00	0.00	0.00
20,382.8	90.00	359.57	12,327.0	8,517.0	-45.2	8,517.1	0.00	0.00	0.00

Database:	EDM 10_13	Local Co-ordinate Reference:	Well Dagger Lake 5 State Com #803H
Company:	Advance Energy Partners	TVD Reference:	KB @ 3679.5usft (H&P 466)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3679.5usft (H&P 466)
Site:	(Dagger Lake)Sec5_T-22-S_R-33-E	North Reference:	Grid
Well:	Dagger Lake 5 State Com #803H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan 0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
FTP (Dagger Lake #8	0.00	0.00	12,327.0	801.4	12.1	517,723.60	768,642.50	32° 25' 16.087 N	103° 35' 48.066 W
- plan misses target center by 0.6usft at 12666.9usft MD (12327.0 TVD, 801.4 N, 12.7 E)									
- Point									
LTP/PBHL (Dagger Lake #8	0.00	0.00	12,327.0	8,517.0	-45.2	525,439.20	768,585.20	32° 26' 32.436 N	103° 35' 48.113 W
- plan hits target center									
- Point									