

1625 N. French Dr., Hobbs, NM 88240

District II

811 S. First St., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico  
Energy, Minerals & Natural ResourcesForm C-104  
Revised August 1, 2011

## Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

## I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

|                                                                                                                                  |                                                          |                                                           |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------|
| <sup>1</sup> Operator name and Address<br>Advance Energy Partners Hat Mesa, LLC<br>11490 Westheimer RD, Suite 950<br>Houston, TX |                                                          | <sup>2</sup> OGRID Number<br>372417                       |
|                                                                                                                                  |                                                          | <sup>3</sup> Reason for Filing Code/ Effective Date<br>NW |
| <sup>4</sup> API Number<br>30-025-48903                                                                                          | <sup>5</sup> Pool Name<br>WC-025 G-10 S2133280; WOLFCAMP | <sup>6</sup> Pool Code<br>98033                           |
| <sup>7</sup> Property Code<br>319601                                                                                             | <sup>8</sup> Property Name<br>DAGGER STATE COM           | <sup>9</sup> Well Number<br>804H                          |

II. <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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| L             | 30      | 21 S     | 33 E  |         | 2370          | SOUTH            | 800           | WEST           | Lea    |

<sup>11</sup> Bottom Hole Location

| Ul or lot no.          | Section                             | Township                          | Range                             | Lot Idn                            | Feet from the                       | North/South line | Feet from the | East/West line | County |
|------------------------|-------------------------------------|-----------------------------------|-----------------------------------|------------------------------------|-------------------------------------|------------------|---------------|----------------|--------|
| D                      | 19                                  | 21 S                              | 33 E                              |                                    | 30                                  | NORTH            | 1200          | WEST           | Lea    |
| <sup>12</sup> Lse Code | <sup>13</sup> Producing Method Code | <sup>14</sup> Gas Connection Date | <sup>15</sup> C-129 Permit Number | <sup>16</sup> C-129 Effective Date | <sup>17</sup> C-129 Expiration Date |                  |               |                |        |

## III. Oil and Gas Transporters

| <sup>18</sup> Transporter OGRID | <sup>19</sup> Transporter Name and Address                                          | <sup>20</sup> O/G/W |
|---------------------------------|-------------------------------------------------------------------------------------|---------------------|
| 214984                          | Plains Marketing, LP<br>10 Desta Drive, Suite 200E<br>Midland, TX 79705             | O                   |
| 330291                          | 3 Bear Energy-Cottonwood, LLC<br>1512 Larimer Street, Suite 540<br>Denver, CO 80202 | G                   |
|                                 |                                                                                     |                     |
|                                 |                                                                                     |                     |
|                                 |                                                                                     |                     |
|                                 |                                                                                     |                     |
|                                 |                                                                                     |                     |
|                                 |                                                                                     |                     |

## IV. Well Completion Data

|                                    |                                     |                             |                               |                                               |                       |
|------------------------------------|-------------------------------------|-----------------------------|-------------------------------|-----------------------------------------------|-----------------------|
| <sup>21</sup> Spud Date<br>6/11/21 | <sup>22</sup> Ready Date<br>1/15/22 | <sup>23</sup> TD<br>20,310' | <sup>24</sup> PBDT<br>20,264' | <sup>25</sup> Perforations<br>12,473'-20,212' | <sup>26</sup> DHC, MC |
| <sup>27</sup> Hole Size            | <sup>28</sup> Casing & Tubing Size  | <sup>29</sup> Depth Set     | <sup>30</sup> Sacks Cement    |                                               |                       |
| 14.75"                             | 10.75"                              | 1571'                       | 780                           |                                               |                       |
| 9.63"                              | 7.63"                               | 3759'/10,628'               | 1350                          |                                               |                       |
| 6.75"                              | 5.5"                                | 20,295'                     | 1819                          |                                               |                       |
|                                    |                                     |                             |                               |                                               |                       |

## V. Well Test Data

|                                                                                                                                                                                                                                                 |                                            |                                    |                                     |                                  |                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------------------------|-------------------------------------|----------------------------------|--------------------------------------|
| <sup>31</sup> Date New Oil<br>1/16/22                                                                                                                                                                                                           | <sup>32</sup> Gas Delivery Date<br>1/16/22 | <sup>33</sup> Test Date<br>2/28/22 | <sup>34</sup> Test Length<br>24 hrs | <sup>35</sup> Tbg. Pressure<br>- | <sup>36</sup> Csg. Pressure<br>722   |
| <sup>37</sup> Choke Size<br>30                                                                                                                                                                                                                  | <sup>38</sup> Oil<br>1417                  | <sup>39</sup> Water<br>3757        | <sup>40</sup> Gas<br>3803           |                                  | <sup>41</sup> Test Method<br>Flowing |
| <sup>42</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.<br>Signature: <i>Eileen Kosakowski</i> |                                            |                                    | OIL CONSERVATION DIVISION           |                                  |                                      |
| Printed name:<br>Eileen M Kosakowski                                                                                                                                                                                                            |                                            |                                    | Approved by:                        |                                  |                                      |
| Title:<br>Sr. Eng. Tech                                                                                                                                                                                                                         |                                            |                                    | Title:                              |                                  |                                      |
| E-mail Address:<br><a href="mailto:ekosakowski@advanceenergypartners.com">ekosakowski@advanceenergypartners.com</a>                                                                                                                             |                                            |                                    | Approval Date:                      |                                  |                                      |
| Date:<br>7/20/22                                                                                                                                                                                                                                |                                            | Phone:<br>832-672-4604             |                                     |                                  |                                      |

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) 476-3480 Fax: (505) 476-3482

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  
AS Drilled

|                            |                                                   |                                             |
|----------------------------|---------------------------------------------------|---------------------------------------------|
| API Number<br>30-025-48903 | Pool Code<br>98033                                | Pool Name<br>WC-025 G-10 S213328O; WOLFCAMP |
| Property Code<br>319601    | Property Name<br>DAGGER STATE COM                 | Well Number<br>804H                         |
| OGRID No.<br>372417        | Operator Name<br>ADVANCE ENERGY PARTNERS HAT MESA | Elevation<br>3816'                          |

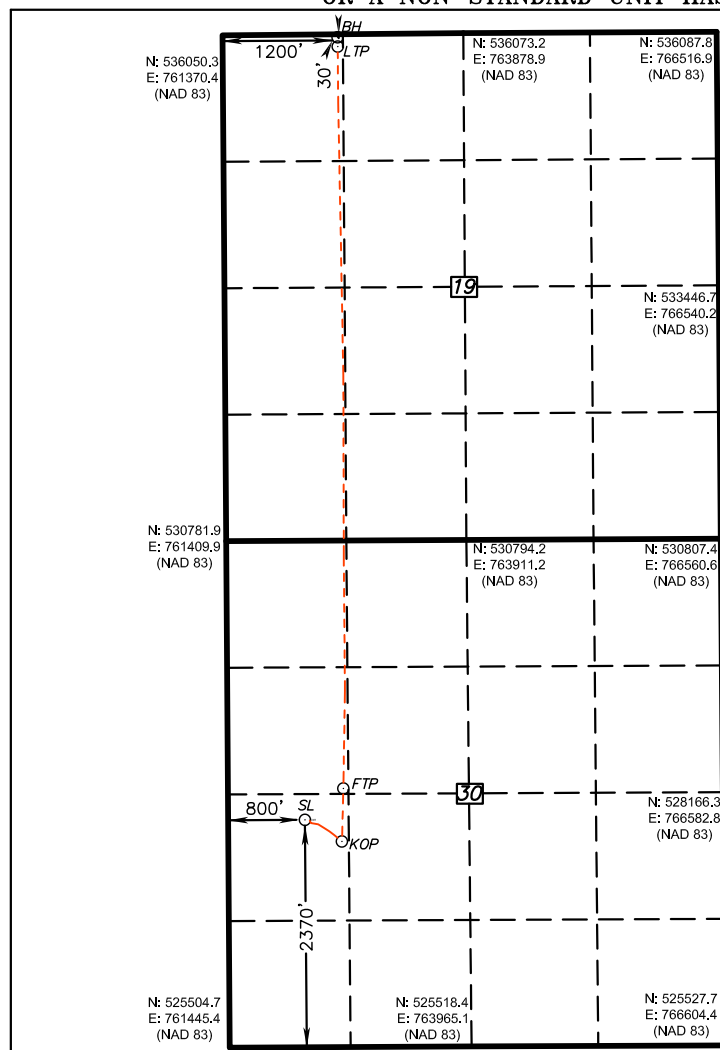
**Surface Location**

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | SOUTH/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| L             | 30      | 21 S     | 33 E  |         | 2370          | SOUTH            | 800           | 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 |
|------------------------|-----------------|-------------------------|-----------|---------|---------------|------------------|---------------|----------------|--------|
| D                      | 19              | 21 S                    | 33 E      |         | 30            | NORTH            | 1200          | WEST           | LEA    |
| Dedicated Acres<br>240 | Joint or Infill | Consolidation Code<br>C | 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



**BOTTOM HOLE LOCATION**

Lat - N 32.471569°  
Long - W 103.615966°  
NMSPCE- N 536031.1  
E 762569.7  
(NAD-83)

**LAST TAKE POINT**  
128' FNL & 1200' FWL  
Lat - N 32.471300°  
Long - W 103.615965°  
NMSPCE- N 535933.5  
E 762570.7  
(NAD-83)

**FIRST TAKE POINT**  
2583' FNL & 1202' FWL  
Lat - N 32.450056°  
Long - W 103.615944°  
NMSPCE- N 528204.8  
E 762629.1  
(NAD-83)

**KICK OFF POINT**  
2142' FSL & 1184' FWL  
Lat - N 32.448541°  
Long - W 103.616001°  
NMSPCE- N 527653.4  
E 762615.0  
(NAD-83)

**SURFACE LOCATION**  
Lat - N 32.449166°  
Long - W 103.617247°  
NMSPCE- N 527878.4  
E 762229.2  
(NAD-83)

**OPERATOR CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unLEASED mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Eileen Kosakowski* 6/21/22  
Signature Date  
Eileen M Kosakowski  
Printed Name  
ekosakowski@advanceenergypartners.com  
Email Address

**SURVEYOR CERTIFICATION**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JUNE 2, 2022  
Date Surveyed  
Signature & Seal of Professional Surveyor  
Certificate No. Gary L. Jones 7977  
BASIN SURVEYOR

0' 1000' 2000' 3000' 4000'  
SCALE: 1" = 2000'  
WO Num.: 35746



## End of Well Report

# Advance Energy Partners, LLC Dagger State Com, Well No. 804H Lea County, New Mexico

**Rig: Nabors X50**

**Job No.: WT-21-069**

Start Date: 06/01/2021

End Date: 07/02/2021

Directional Drillers:

**Advance Directional**

Office Support:

**Javier Alvarez**

Directional Coordinator

E-mail: [Javier.Alvarez@aimdir.com](mailto:Javier.Alvarez@aimdir.com)

**Ivonne Gonzalez**

Well Planner

E-mail: [Ivonne.Gonzalez@aimdir.com](mailto:Ivonne.Gonzalez@aimdir.com)

**Allison Reinert**

Executive VP

E-mail: [Allison.Reinert@aimdir.com](mailto:Allison.Reinert@aimdir.com)

**Thomas Rinald**

President

E-mail: [Thomas.Rinald@aimdir.com](mailto:Thomas.Rinald@aimdir.com)

P.O. Box 181015 • Corpus Christi, Texas 78480

Phone: 361-653-6500 • Fax: 361-653-6599

[www.aimdir.com](http://www.aimdir.com)





# Performance Overview

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## Dagger State Com 804H (WT-21-069)

2021-06-01 to 2021-07-02

Lea, New Mexico, US (32.45, -103.62)

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# BHA Performance

## BHA 1

BHA #1 - 14.75"  
Surface

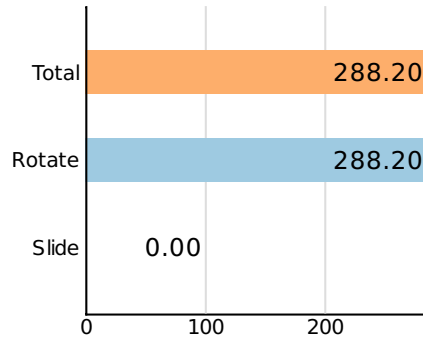
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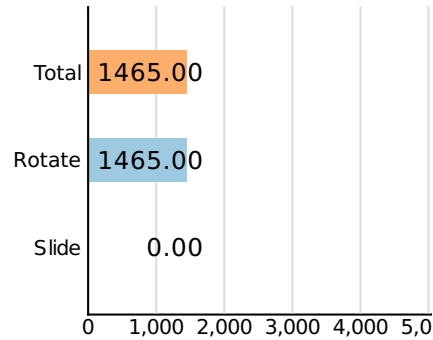
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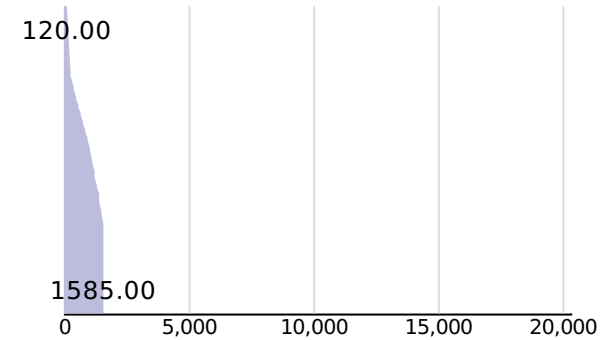
Rate of Penetration (ft/h)



Distance (ft)



Depth (ft)



## BHA 2

9 7/8 Intermediate

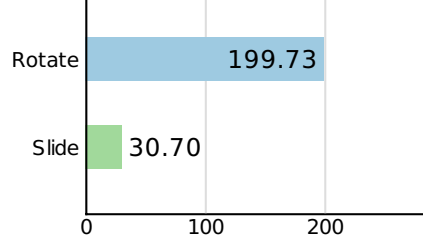
In: **06/12/2021**

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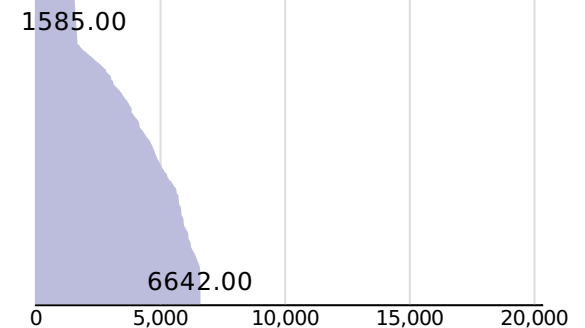
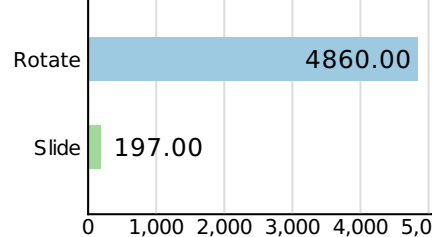
Out: **06/14/2021**

**00:15**

Rate of Penetration (ft/h)



Distance (ft)



## BHA 3

9 7/8 Intermediate

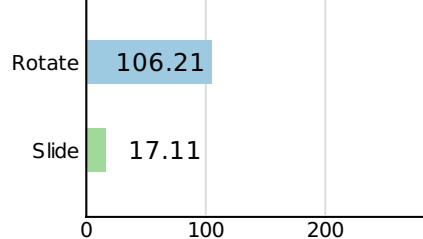
In: **06/14/2021**

**01:00**

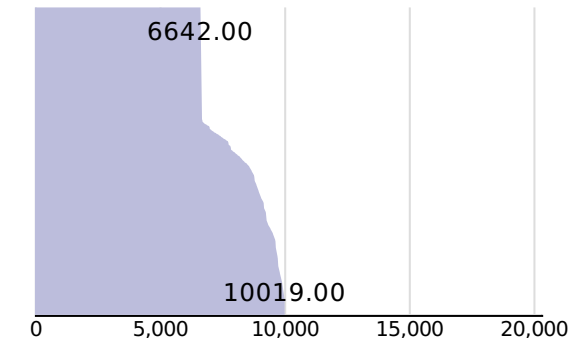
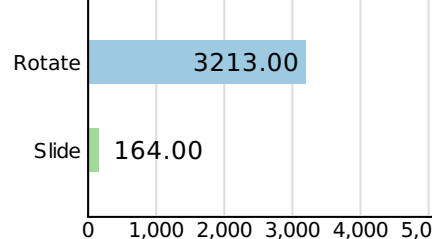
Out: **06/17/2021**

**01:30**

Rate of Penetration (ft/h)

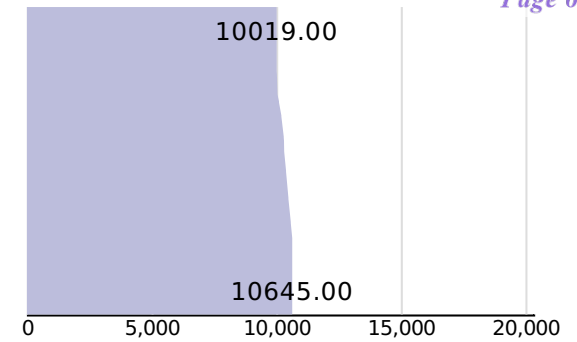
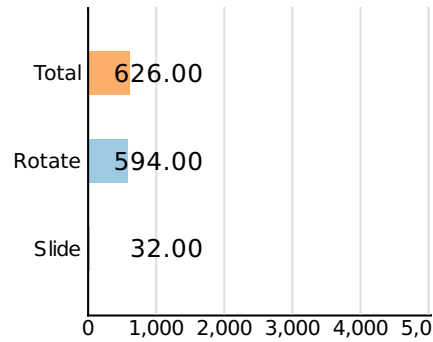
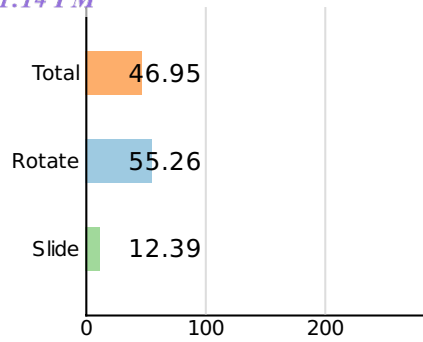


Distance (ft)

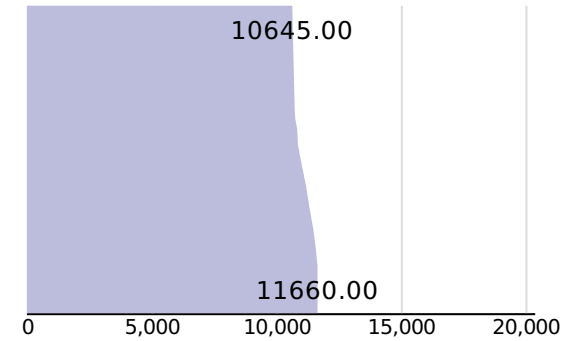
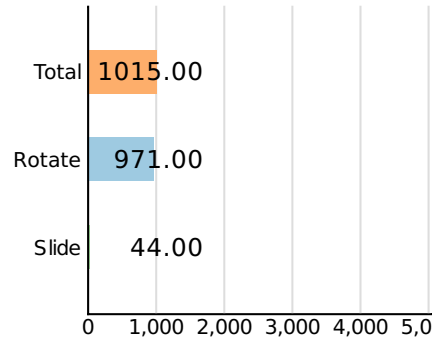
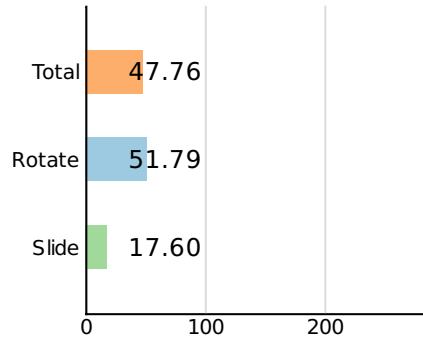


## BHA 4

9 7/8 Intermediate

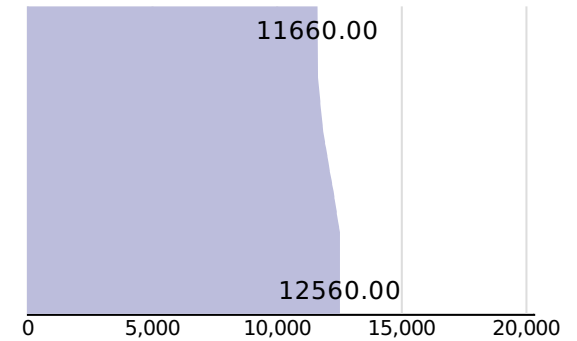
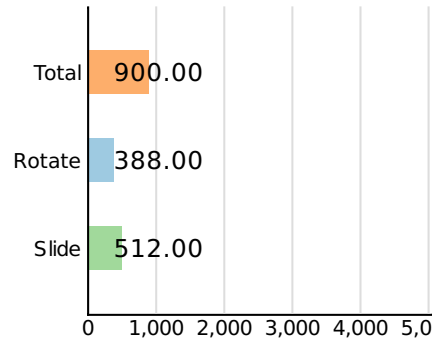
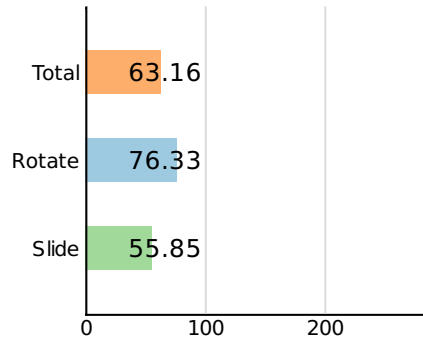
In: **06/17/2021****02:00**Out: **06/18/2021****03:30**

## BHA 5

6.75"  
INTERMEDIATEIn: **06/20/2021****00:30**Out: **06/21/2021****16:30**

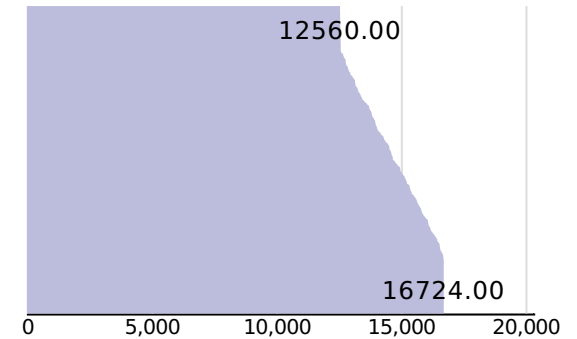
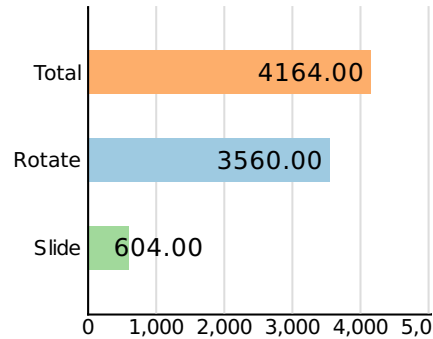
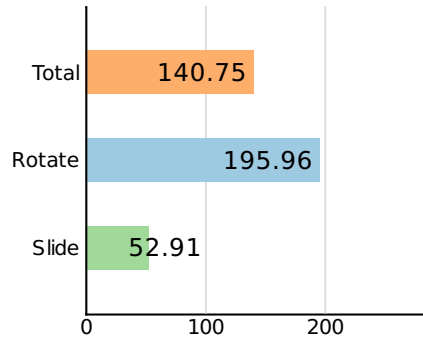
## BHA 6

6.75" CURVE

In: **06/21/2021****17:45**Out: **06/22/2021****23:15**

## BHA 7

6.75" LATERAL

In: **06/23/2021****01:00**Out: **06/25/2021****04:30**

# BHA 8

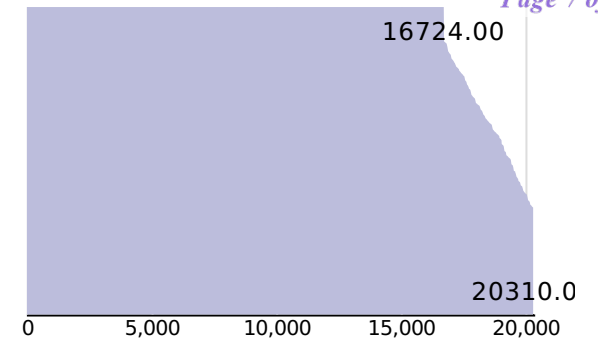
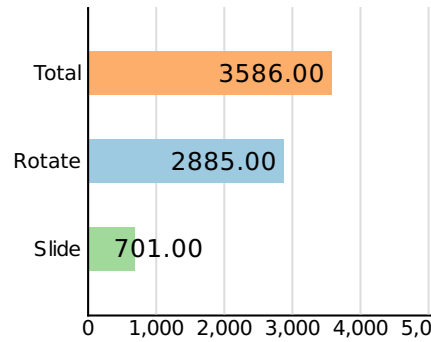
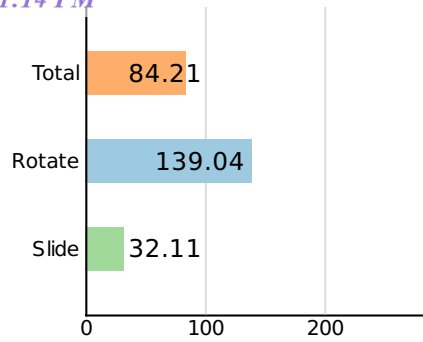
6.75" LATERAL

In: 06/25/2021

06:30

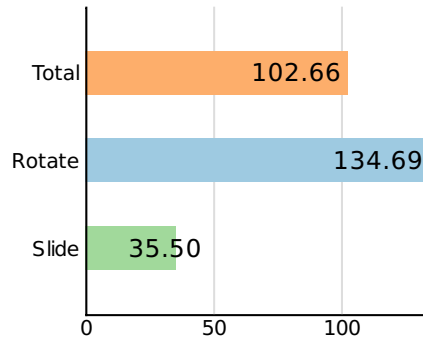
Out: 06/28/2021

22:00

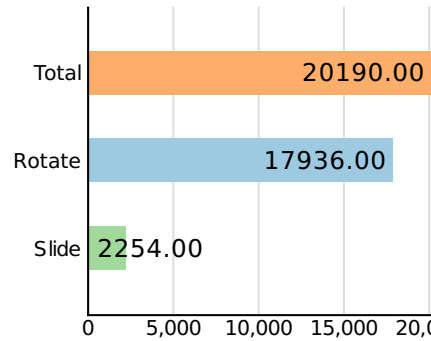


## Total

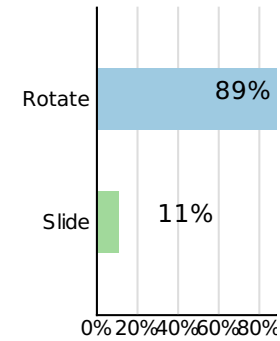
Rate of Penetration (ft/h)



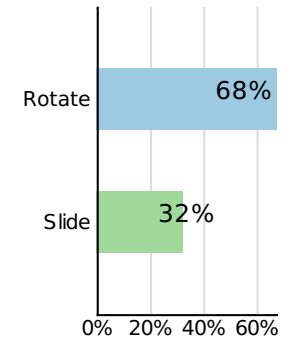
Distance (ft)



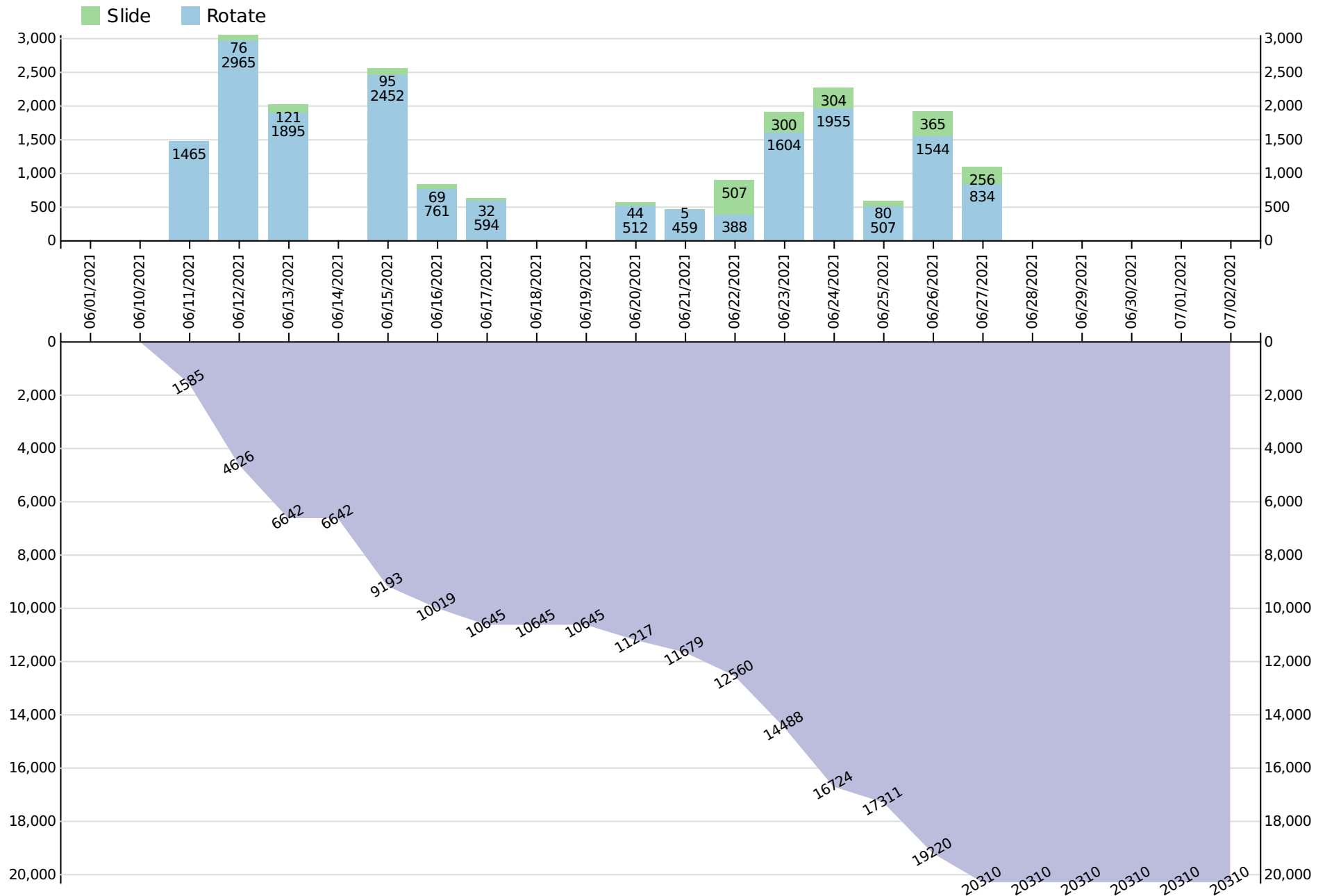
Distance Percentage



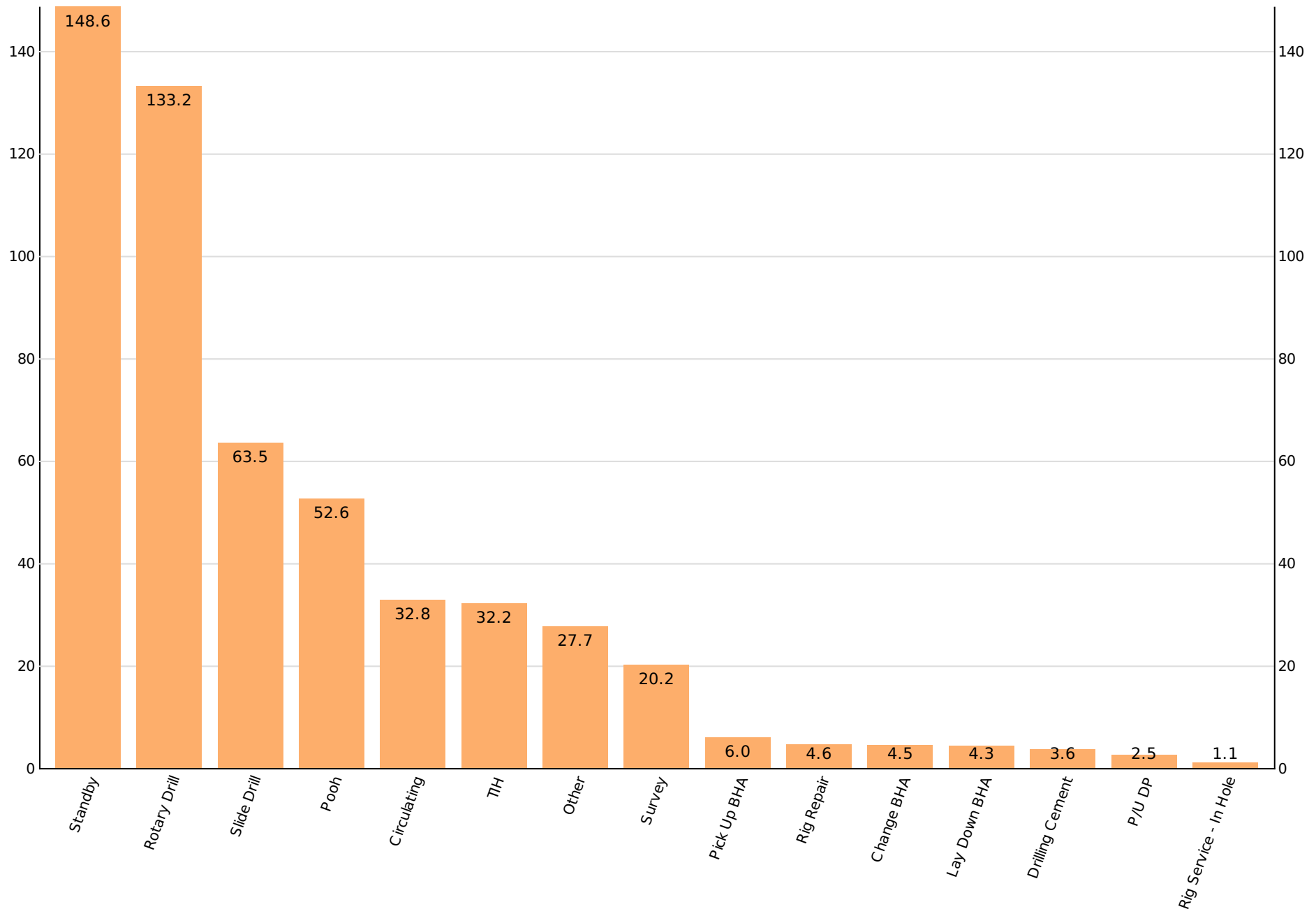
Time Percentage



# Days vs. Depth



# Directional Activity Hours





# Proposed vs. As Drilled

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## **Dagger State Com 804H (WT-21-069)**

2021-06-01 to 2021-07-02

Lea, New Mexico, US (32.45, -103.62)

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Referenced to Imaging: 10/7/2023 2:34:19 PM



# Advance Energy Partners, LLC

Dagger State Com 804H  
Lea County, New Mexico  
Job No. WT-21-069  
Nabors X50  
Plan 1.0



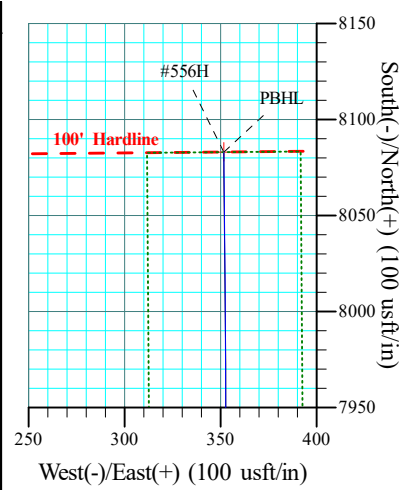
Received by OCD: 7/20/2022 12:51:14 PM South(-)/North(+) (2000 usft/in)

| SECTION DETAILS |          |        |          |          |         |       |         |         |                                    |  |
|-----------------|----------|--------|----------|----------|---------|-------|---------|---------|------------------------------------|--|
| MD              | Inc      | Azi    | TVD      | +N/-S    | +E/-W   | Dleg  | TFace   | VSect   | Annotation                         |  |
| 0.00            | 0.00     | 0.00   | 0.00     | 0.00     | 0.00    | 0.00  | 0.00    | 0.00    |                                    |  |
| 5000.00         | 0.00     | 0.00   | 5000.00  | 0.00     | 0.00    | 0.00  | 0.00    | 0.00    | Build 1.00°/100'                   |  |
| 5433.65         | 4.34     | 117.41 | 5433.23  | -7.55    | 14.56   | 1.00  | 117.41  | -7.66   | Hold 4.34° Inc, 117.41° Azimuth    |  |
| 11033.21        | 4.34     | 117.41 | 11016.77 | -202.45  | 390.44  | 0.00  | 0.00    | -205.31 | Drop 1.00°/100'                    |  |
| 11466.86        | 0.00     | 0.00   | 11450.00 | -210.00  | 405.00  | 1.00  | 180.00  | -212.96 | Hold Vertical                      |  |
| 11700.40        | 0.00     | 0.00   | 11683.54 | -210.00  | 405.00  | 0.00  | 0.00    | -212.96 | KOP, Build 12.00°/100'             |  |
| 12450.40        | 90.00    | 0.42   | 12161.00 | 267.45   | 408.50  | 12.00 | 0.42    | 264.45  | LP, Hold 90.00° Inc, 0.42° Azimuth |  |
| 12452.70        | 90.00    | 0.42   | 12161.00 | 269.75   | 408.52  | 0.00  | 0.00    | 266.75  | Build Turn 2.00°/100'              |  |
| 12532.97        | 91.37    | 359.58 | 12160.05 | 350.01   | 408.52  | 2.00  | -31.52  | 347.01  | Hold 91.37° Inc, 359.58° Azimuth   |  |
| 13121.14        | 91.37    | 359.58 | 12146.00 | 938.00   | 404.21  | 0.00  | 0.00    | 935.01  | Build 2.00°/100'                   |  |
| 13145.96        | 91.86    | 359.58 | 12145.30 | 962.81   | 404.03  | 2.00  | 0.00    | 959.82  | Hold 91.86° Inc, 359.58° Azimuth   |  |
| 14599.46        | 91.86    | 359.58 | 12098.00 | 2415.50  | 393.39  | 0.00  | 0.00    | 2412.55 | Build 2.00°/100'                   |  |
| 14617.81        | 92.23    | 359.58 | 12097.34 | 2433.84  | 393.26  | 2.00  | 0.00    | 2430.89 | Hold 92.23° Inc, 359.58° Azimuth   |  |
| 14              | 15807.80 | 92.23  | 359.58   | 12051.00 | 3622.90 | 0.00  | 0.00    | 3619.98 | Drop 2.00°/100'                    |  |
| 15              | 15904.02 | 90.31  | 359.58   | 12048.87 | 3719.09 | 2.00  | 180.00  | 3716.18 | Hold 90.31° Inc, 359.58° Azimuth   |  |
| 16              | 16810.97 | 90.31  | 359.58   | 12044.00 | 4626.00 | 0.00  | 0.00    | 4623.11 | Drop 2.00°/100'                    |  |
| 17              | 16816.42 | 90.20  | 359.58   | 12043.98 | 4631.45 | 2.00  | 180.00  | 4628.56 | Hold 90.20° Inc, 359.58° Azimuth   |  |
| 18              | 17964.01 | 90.20  | 359.58   | 12040.00 | 5779.00 | 0.00  | 0.00    | 5776.14 | Drop 2.00°/100'                    |  |
| 19              | 17984.48 | 89.79  | 359.58   | 12040.00 | 5799.47 | 2.00  | -180.00 | 5796.61 | Hold 89.79° Inc, 359.58° Azimuth   |  |
| 20              | 19071.05 | 89.79  | 359.58   | 12044.00 | 6886.00 | 0.00  | 0.00    | 6883.17 | Build 2.00°/100'                   |  |
| 21              | 19143.61 | 91.24  | 359.58   | 12043.35 | 6958.56 | 2.00  | 0.00    | 6955.73 | Hold 91.24° Inc, 359.58° Azimuth   |  |
| 22              | 20268.25 | 91.24  | 359.58   | 12019.00 | 8082.90 | 0.00  | 0.00    | 8080.10 | PBHL                               |  |

| DESIGN TARGET DETAILS |          |         |        |           |           |                  |                   |
|-----------------------|----------|---------|--------|-----------|-----------|------------------|-------------------|
| Name                  | TVD      | +N/-S   | +E/-W  | Northing  | Easting   | Latitude         | Longitude         |
| FTP (Dagger804H)      | 0.00     | 269.50  | 408.50 | 528147.90 | 762637.70 | 32° 26' 59.639 N | 103° 36' 57.301 W |
| PBHL (Dagger804H)     | 12019.00 | 8082.90 | 351.90 | 535961.30 | 762581.10 | 32° 28' 16.955 N | 103° 36' 57.349 W |
| WP1 (Dagger804H)      | 12146.00 | 938.00  | 404.21 | 528816.40 | 762633.41 | 32° 27' 6.254 N  | 103° 36' 57.299 W |
| WP2 (Dagger804H)      | 12098.00 | 2415.50 | 393.39 | 530293.90 | 762622.59 | 32° 27' 20.874 N | 103° 36' 57.309 W |
| WP3 (Dagger804H)      | 12051.00 | 3622.90 | 384.55 | 531501.30 | 762613.75 | 32° 27' 32.822 N | 103° 36' 57.318 W |
| WP4 (Dagger804H)      | 12044.00 | 4626.00 | 377.21 | 532504.40 | 762606.41 | 32° 27' 42.748 N | 103° 36' 57.325 W |
| WP5 (Dagger804H)      | 12040.00 | 5779.00 | 368.77 | 533657.40 | 762597.97 | 32° 27' 54.157 N | 103° 36' 57.333 W |
| WP6 (Dagger804H)      | 12044.00 | 6886.00 | 360.66 | 534764.40 | 762589.86 | 32° 28' 5.112 N  | 103° 36' 57.341 W |

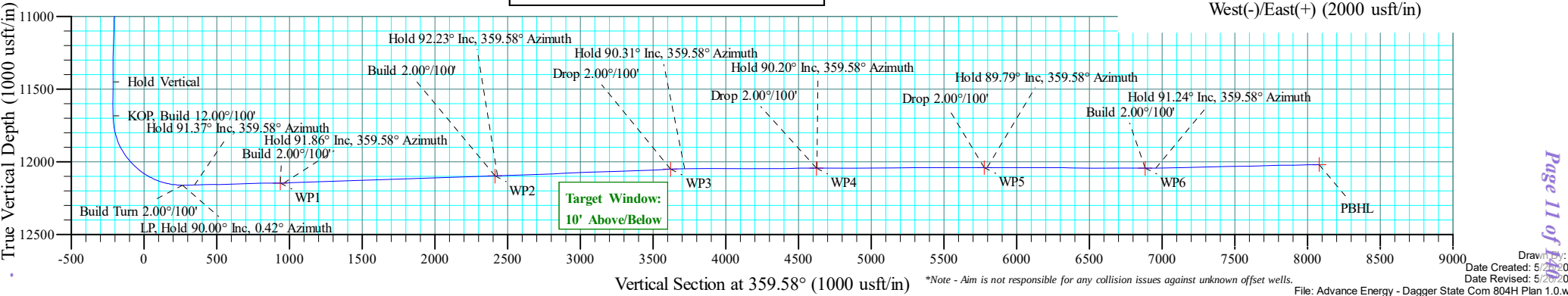
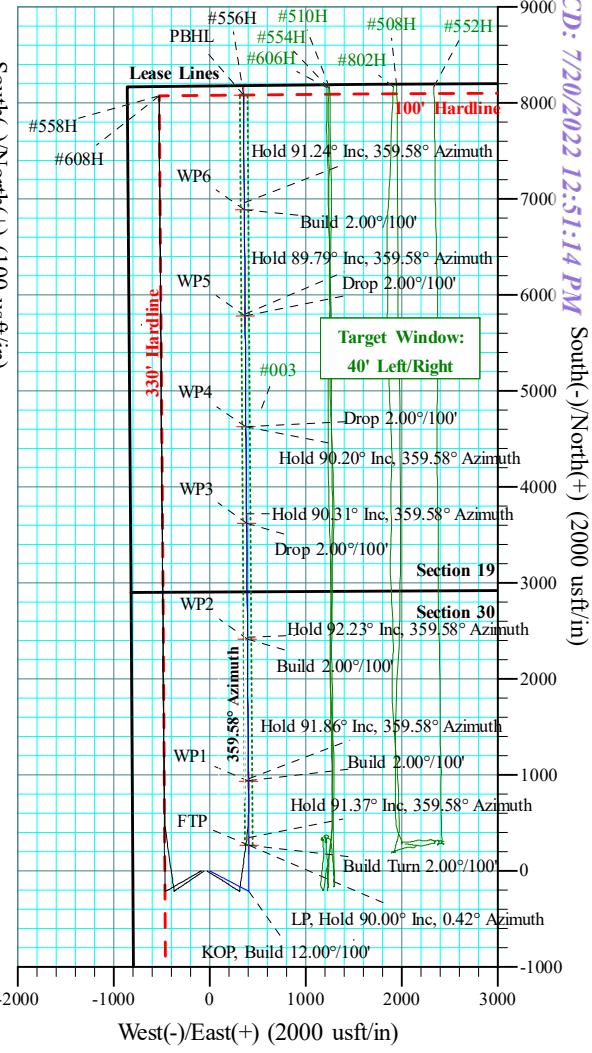
|                                     |           |
|-------------------------------------|-----------|
| SITE DETAILS: Dagger State Com 804H |           |
| Site Centre Northing:               | 527878.40 |
| Easting:                            | 762229.20 |
| Positional Uncertainty:             | 0.00      |
| Convergence:                        | 0.38      |
| Local North:                        | Grid      |

|                                                             |
|-------------------------------------------------------------|
| PROJECT DETAILS: Lea County, New Mexico                     |
| Geodetic System: US State Plane 1983                        |
| Datum: North American Datum 1983                            |
| Ellipsoid: GRS 1980                                         |
| Zone: New Mexico Eastern Zone                               |
| System Datum: Mean Sea Level                                |
| Depth Reference: 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |



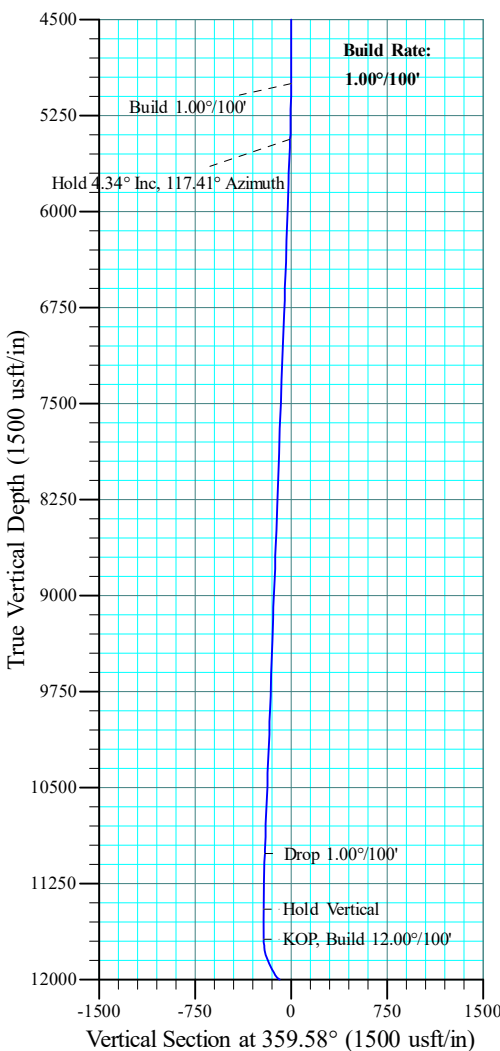
Azimuths to Grid North  
True North: -0.38°  
Magnetic North: 6.08°  
  
Magnetic Field  
Strength: 47907.6nT  
Dip Angle: 60.18°  
Date: 5/27/2021  
Model: MVHD

Magnetic North: 6.08° to Grid North





Dagger State Com 804H  
Lea County, New Mexico  
Job No. WT-21-069  
Nabors X50  
Plan 1.0



Azimuths to Grid North  
True North: -0.38°  
Magnetic North: 6.08°

Magnetic Field  
Strength: 47907.6nT  
Dip Angle: 60.18°  
Date: 5/27/2021  
Model: MVHD

Magnetic North: 6.08° to Grid North

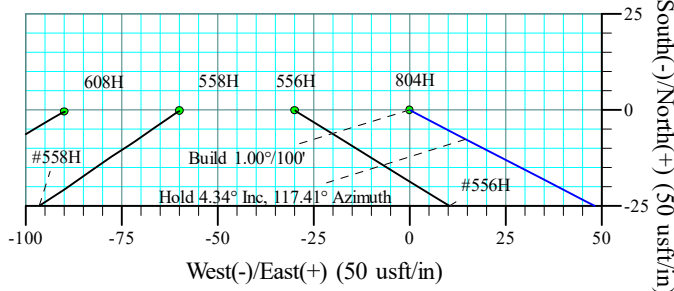
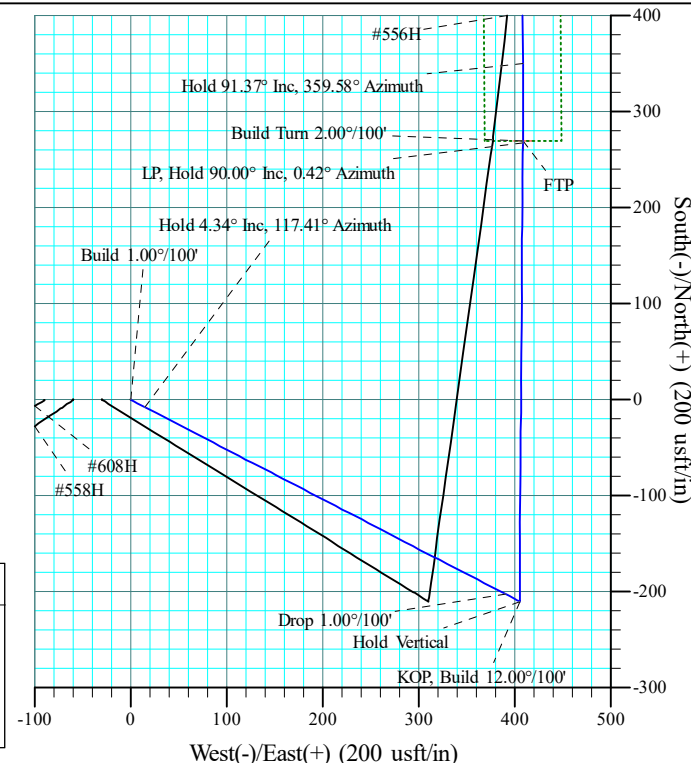
| SLOTS     |         |        |
|-----------|---------|--------|
| Slot Name | +N/-S   | +E/-W  |
| #003      | 4819.53 | 543.81 |
| 556H      | -0.10   | -29.90 |
| 558H      | -0.20   | -59.90 |
| 608H      | -0.40   | -89.90 |
| 804H      | 0.00    | 0.00   |

#### PROJECT DETAILS: Lea County, New Mexico

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico Eastern Zone  
System Datum: Mean Sea Level

#### SITE DETAILS: Dagger State Com 804H

Site Centre Northing: 527878.40  
Easting: 762229.20  
Positional Uncertainty: 0.00  
Convergence: 0.38  
Local North: Grid  
Depth Reference:  
3816'GL+32.5'KB @ 3848.50usft (Nabors X50)



\*Note - Aim is not responsible for collision issues against any unknown offset wells.

#### DESIGN TARGET DETAILS

| Name              | TVD      | +N/-S   | +E/-W  | Northing  | Easting   | Latitude         | Longitude         |
|-------------------|----------|---------|--------|-----------|-----------|------------------|-------------------|
| FTP (Dagger804H)  | 0.00     | 269.50  | 408.50 | 528147.90 | 762637.70 | 32° 26' 59.639 N | 103° 36' 57.301 W |
| PBHL (Dagger804H) | 12019.00 | 8082.90 | 351.90 | 535961.30 | 762581.10 | 32° 28' 16.955 N | 103° 36' 57.349 W |
| WP1 (Dagger804H)  | 12146.00 | 938.00  | 404.21 | 528816.40 | 762633.41 | 32° 27' 6.254 N  | 103° 36' 57.299 W |
| WP2 (Dagger804H)  | 12098.00 | 2415.50 | 393.39 | 530293.90 | 762622.59 | 32° 27' 20.874 N | 103° 36' 57.309 W |
| WP3 (Dagger804H)  | 12051.00 | 3622.90 | 384.55 | 531501.30 | 762613.75 | 32° 27' 32.822 N | 103° 36' 57.318 W |
| WP4 (Dagger804H)  | 12044.00 | 4626.00 | 377.21 | 532504.40 | 762606.41 | 32° 27' 42.748 N | 103° 36' 57.325 W |
| WP5 (Dagger804H)  | 12040.00 | 5779.00 | 368.77 | 533657.40 | 762597.97 | 32° 27' 54.157 N | 103° 36' 57.333 W |
| WP6 (Dagger804H)  | 12044.00 | 6886.00 | 360.66 | 534764.40 | 762589.86 | 32° 28' 5.112 N  | 103° 36' 57.341 W |

Drawn By: IG  
Date Created: 5/26/2021  
Date Revised: 5/26/2021  
File: Advance Energy - Dagger State Com 804H Plan 1.0 Surface. wpc

#### SECTION DETAILS

| Sec | MD       | Inc   | Azi    | TVD      | +N/-S   | +E/-W  | Dleg  | TFace   | VSect   | Annotation                         |
|-----|----------|-------|--------|----------|---------|--------|-------|---------|---------|------------------------------------|
| 1   | 0.00     | 0.00  | 0.00   | 0.00     | 0.00    | 0.00   | 0.00  | 0.00    | 0.00    |                                    |
| 2   | 5000.00  | 0.00  | 0.00   | 5000.00  | 0.00    | 0.00   | 0.00  | 0.00    | 0.00    | Build 1.00°/100'                   |
| 3   | 5433.65  | 4.34  | 117.41 | 5433.23  | -7.55   | 14.56  | 1.00  | 117.41  | -7.66   | Hold 4.34° Inc, 117.41° Azimuth    |
| 4   | 11033.21 | 4.34  | 117.41 | 11016.77 | -202.45 | 390.44 | 0.00  | 0.00    | -205.31 | Drop 1.00°/100'                    |
| 5   | 11466.86 | 0.00  | 0.00   | 11450.00 | -210.00 | 405.00 | 1.00  | 180.00  | -212.96 | Hold Vertical                      |
| 6   | 11700.40 | 0.00  | 0.00   | 11683.54 | -210.00 | 405.00 | 0.00  | 0.00    | -212.96 | KOP, Build 12.00°/100'             |
| 7   | 12450.40 | 90.00 | 0.42   | 12161.00 | 267.45  | 408.50 | 12.00 | 0.42    | 264.45  | LP, Hold 90.00° Inc, 0.42° Azimuth |
| 8   | 12452.70 | 90.00 | 0.42   | 12161.00 | 269.75  | 408.52 | 0.00  | 0.00    | 266.75  | Build Turn 2.00°/100'              |
| 9   | 12532.97 | 91.37 | 359.58 | 12160.05 | 350.01  | 408.52 | 2.00  | -31.52  | 347.01  | Hold 91.37° Inc, 359.58° Azimuth   |
| 10  | 13121.14 | 91.37 | 359.58 | 12146.00 | 938.00  | 404.21 | 0.00  | 0.00    | 935.01  | Build 2.00°/100'                   |
| 11  | 13145.96 | 91.86 | 359.58 | 12145.30 | 962.81  | 404.03 | 2.00  | 0.00    | 959.82  | Hold 91.86° Inc, 359.58° Azimuth   |
| 12  | 14599.46 | 91.86 | 359.58 | 12098.00 | 2415.50 | 393.39 | 0.00  | 0.00    | 2412.55 | Build 2.00°/100'                   |
| 13  | 14617.81 | 92.23 | 359.58 | 12097.34 | 2433.84 | 393.26 | 2.00  | 0.00    | 2430.89 | Hold 92.23° Inc, 359.58° Azimuth   |
| 14  | 15807.80 | 92.23 | 359.58 | 12051.00 | 3622.90 | 384.55 | 0.00  | 0.00    | 3619.98 | Drop 2.00°/100'                    |
| 15  | 15904.02 | 90.31 | 359.58 | 12048.87 | 3719.09 | 383.85 | 2.00  | 180.00  | 3716.18 | Hold 90.31° Inc, 359.58° Azimuth   |
| 16  | 16810.97 | 90.31 | 359.58 | 12044.00 | 4626.00 | 377.21 | 0.00  | 0.00    | 4623.11 | Drop 2.00°/100'                    |
| 17  | 16816.42 | 90.20 | 359.58 | 12043.98 | 4631.45 | 377.17 | 2.00  | 180.00  | 4628.56 | Hold 90.20° Inc, 359.58° Azimuth   |
| 18  | 17964.01 | 90.20 | 359.58 | 12040.00 | 5779.00 | 368.77 | 0.00  | 0.00    | 5776.14 | Drop 2.00°/100'                    |
| 19  | 17984.48 | 89.79 | 359.58 | 12040.00 | 5799.47 | 368.62 | 2.00  | -180.00 | 5796.61 | Hold 89.79° Inc, 359.58° Azimuth   |
| 20  | 19071.05 | 89.79 | 359.58 | 12044.00 | 6886.00 | 360.66 | 0.00  | 0.00    | 6883.17 | Build 2.00°/100'                   |
| 21  | 20268.25 | 91.24 | 359.58 | 12043.35 | 6958.56 | 360.13 | 2.00  | 0.00    | 6955.73 | Hold 91.24° Inc, 359.58° Azimuth   |
| 22  | 20268.25 | 91.24 | 359.58 | 12019.00 | 8082.90 | 351.90 | 0.00  | 0.00    | 8080.10 | PBHL                               |

## Aim Directional Services, LLC

## Survey Report

|                  |                              |                                     |                                            |
|------------------|------------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | Advance Energy Partners, LLC | <b>Local Co-ordinate Reference:</b> | Well #804H - Slot 804H                     |
| <b>Project:</b>  | Lea County, New Mexico       | <b>TVD Reference:</b>               | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Site:</b>     | Dagger State Com 804H        | <b>MD Reference:</b>                | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Well:</b>     | #804H                        | <b>North Reference:</b>             | Grid                                       |
| <b>Wellbore:</b> | Lateral 1r0                  | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Plan 1.0                     | <b>Database:</b>                    | EDM 5000.1 Aim Database                    |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Lea County, New Mexico    |                      |                |
| <b>Map System:</b> | US State Plane 1983       | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983 |                      |                |
| <b>Map Zone:</b>   | New Mexico Eastern Zone   |                      |                |

| Site                  |           | Dagger State Com 804H |                 |                   |                  |
|-----------------------|-----------|-----------------------|-----------------|-------------------|------------------|
| Site Position:        |           | Northing:             | 527,878.40 usft | Latitude:         | 32° 26' 56.999 N |
| From:                 | Map       | Easting:              | 762,229.20 usft | Longitude:        | 103° 37' 2.089 W |
| Position Uncertainty: | 0.00 usft | Slot Radius:          | 13-3/16 "       | Grid Convergence: | 0.38 °           |

|                      |                   |           |                     |                 |               |                  |
|----------------------|-------------------|-----------|---------------------|-----------------|---------------|------------------|
| Well                 | #804H - Slot 804H |           |                     |                 |               |                  |
| Well Position        | +N/-S             | 0.00 usft | Northing:           | 527,878.40 usft | Latitude:     | 32° 26' 56.999 N |
|                      | +E/-W             | 0.00 usft | Easting:            | 762,229.20 usft | Longitude:    | 103° 37' 2.089 W |
| Position Uncertainty |                   | 0.00 usft | Wellhead Elevation: | usft            | Ground Level: | 3,816.00 usft    |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Lateral 1r0       |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | MVHD              | 5/27/2021          | 6.46                   | 60.18                | 47,907.62960233            |

|                          |                                |                     |                      |                      |  |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|--|
| <b>Design</b>            | Plan 1.0                       |                     |                      |                      |  |
| <b>Audit Notes:</b>      |                                |                     |                      |                      |  |
| <b>Version:</b>          | <b>Phase:</b>                  | PROTOTYPE           | <b>Tie On Depth:</b> | 0.00                 |  |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b>  | <b>Direction (°)</b> |  |
|                          | 0.00                           | 0.00                | 0.00                 | 359.58               |  |

|                            |                  |                          |                  |                    |  |
|----------------------------|------------------|--------------------------|------------------|--------------------|--|
| <b>Survey Tool Program</b> | <b>Date</b>      | 5/27/2021                |                  |                    |  |
| <b>From (usft)</b>         | <b>To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Description</b> |  |
| 0.00                       | 20,268.25        | Plan 1.0 (Lateral 1r0)   | B001Mb_MWD+HRGM  | OWSG MWD + HRGM    |  |

|                              |                        |                    |                              |                     |                     |                                |                                |                               |                              |  |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|--------------------------------|-------------------------------|------------------------------|--|
| <b>Planned Survey</b>        |                        |                    |                              |                     |                     |                                |                                |                               |                              |  |
| <b>Measured Depth (usft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Vertical Section (usft)</b> | <b>Dogleg Rate (°/100usft)</b> | <b>Build Rate (°/100usft)</b> | <b>Turn Rate (°/100usft)</b> |  |
| 0.00                         | 0.00                   | 0.00               | 0.00                         | 0.00                | 0.00                | 0.00                           | 0.00                           | 0.00                          | 0.00                         |  |
| 100.00                       | 0.00                   | 0.00               | 100.00                       | 0.00                | 0.00                | 0.00                           | 0.00                           | 0.00                          | 0.00                         |  |
| 200.00                       | 0.00                   | 0.00               | 200.00                       | 0.00                | 0.00                | 0.00                           | 0.00                           | 0.00                          | 0.00                         |  |
| 300.00                       | 0.00                   | 0.00               | 300.00                       | 0.00                | 0.00                | 0.00                           | 0.00                           | 0.00                          | 0.00                         |  |
| 400.00                       | 0.00                   | 0.00               | 400.00                       | 0.00                | 0.00                | 0.00                           | 0.00                           | 0.00                          | 0.00                         |  |
| 500.00                       | 0.00                   | 0.00               | 500.00                       | 0.00                | 0.00                | 0.00                           | 0.00                           | 0.00                          | 0.00                         |  |
| 600.00                       | 0.00                   | 0.00               | 600.00                       | 0.00                | 0.00                | 0.00                           | 0.00                           | 0.00                          | 0.00                         |  |
| 700.00                       | 0.00                   | 0.00               | 700.00                       | 0.00                | 0.00                | 0.00                           | 0.00                           | 0.00                          | 0.00                         |  |
| 800.00                       | 0.00                   | 0.00               | 800.00                       | 0.00                | 0.00                | 0.00                           | 0.00                           | 0.00                          | 0.00                         |  |
| 900.00                       | 0.00                   | 0.00               | 900.00                       | 0.00                | 0.00                | 0.00                           | 0.00                           | 0.00                          | 0.00                         |  |

## Aim Directional Services, LLC

## Survey Report

|                  |                              |                                     |                                            |
|------------------|------------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | Advance Energy Partners, LLC | <b>Local Co-ordinate Reference:</b> | Well #804H - Slot 804H                     |
| <b>Project:</b>  | Lea County, New Mexico       | <b>TVD Reference:</b>               | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Site:</b>     | Dagger State Com 804H        | <b>MD Reference:</b>                | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Well:</b>     | #804H                        | <b>North Reference:</b>             | Grid                                       |
| <b>Wellbore:</b> | Lateral 1r0                  | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Plan 1.0                     | <b>Database:</b>                    | EDM 5000.1 Aim Database                    |

| 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) |  |
| 1,000.00              | 0.00            | 0.00        | 1,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 1,100.00              | 0.00            | 0.00        | 1,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 1,200.00              | 0.00            | 0.00        | 1,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 1,300.00              | 0.00            | 0.00        | 1,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 1,400.00              | 0.00            | 0.00        | 1,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 1,500.00              | 0.00            | 0.00        | 1,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 1,600.00              | 0.00            | 0.00        | 1,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 1,700.00              | 0.00            | 0.00        | 1,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 1,800.00              | 0.00            | 0.00        | 1,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 1,900.00              | 0.00            | 0.00        | 1,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 2,000.00              | 0.00            | 0.00        | 2,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 2,100.00              | 0.00            | 0.00        | 2,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 2,200.00              | 0.00            | 0.00        | 2,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 2,300.00              | 0.00            | 0.00        | 2,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 2,400.00              | 0.00            | 0.00        | 2,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 2,500.00              | 0.00            | 0.00        | 2,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 2,600.00              | 0.00            | 0.00        | 2,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 2,700.00              | 0.00            | 0.00        | 2,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 2,800.00              | 0.00            | 0.00        | 2,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 2,900.00              | 0.00            | 0.00        | 2,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,000.00              | 0.00            | 0.00        | 3,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,100.00              | 0.00            | 0.00        | 3,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,200.00              | 0.00            | 0.00        | 3,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,300.00              | 0.00            | 0.00        | 3,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,400.00              | 0.00            | 0.00        | 3,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,500.00              | 0.00            | 0.00        | 3,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,600.00              | 0.00            | 0.00        | 3,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,700.00              | 0.00            | 0.00        | 3,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,800.00              | 0.00            | 0.00        | 3,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 3,900.00              | 0.00            | 0.00        | 3,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,000.00              | 0.00            | 0.00        | 4,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,100.00              | 0.00            | 0.00        | 4,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,200.00              | 0.00            | 0.00        | 4,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,300.00              | 0.00            | 0.00        | 4,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,400.00              | 0.00            | 0.00        | 4,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,500.00              | 0.00            | 0.00        | 4,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,600.00              | 0.00            | 0.00        | 4,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,700.00              | 0.00            | 0.00        | 4,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,800.00              | 0.00            | 0.00        | 4,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 4,900.00              | 0.00            | 0.00        | 4,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| 5,000.00              | 0.00            | 0.00        | 5,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |  |
| Build 1.00°/100'      |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 5,100.00              | 1.00            | 117.41      | 5,100.00              | -0.40        | 0.77         | -0.41                   | 1.00                    | 1.00                   | 0.00                  |  |
| 5,200.00              | 2.00            | 117.41      | 5,199.96              | -1.61        | 3.10         | -1.63                   | 1.00                    | 1.00                   | 0.00                  |  |

## Aim Directional Services, LLC

## Survey Report

|                  |                              |                                     |                                            |
|------------------|------------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | Advance Energy Partners, LLC | <b>Local Co-ordinate Reference:</b> | Well #804H - Slot 804H                     |
| <b>Project:</b>  | Lea County, New Mexico       | <b>TVD Reference:</b>               | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Site:</b>     | Dagger State Com 804H        | <b>MD Reference:</b>                | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Well:</b>     | #804H                        | <b>North Reference:</b>             | Grid                                       |
| <b>Wellbore:</b> | Lateral 1r0                  | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Plan 1.0                     | <b>Database:</b>                    | EDM 5000.1 Aim Database                    |

| 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) |
| 5,300.00                        | 3.00            | 117.41      | 5,299.86              | -3.61        | 6.97         | -3.67                   | 1.00                    | 1.00                   | 0.00                  |
| 5,400.00                        | 4.00            | 117.41      | 5,399.68              | -6.42        | 12.39        | -6.52                   | 1.00                    | 1.00                   | 0.00                  |
| 5,433.65                        | 4.34            | 117.41      | 5,433.23              | -7.55        | 14.56        | -7.66                   | 1.00                    | 1.00                   | 0.00                  |
| Hold 4.34° Inc, 117.41° Azimuth |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,500.00                        | 4.34            | 117.41      | 5,499.40              | -9.86        | 19.02        | -10.00                  | 0.00                    | 0.00                   | 0.00                  |
| 5,600.00                        | 4.34            | 117.41      | 5,599.11              | -13.34       | 25.73        | -13.53                  | 0.00                    | 0.00                   | 0.00                  |
| 5,700.00                        | 4.34            | 117.41      | 5,698.82              | -16.82       | 32.44        | -17.06                  | 0.00                    | 0.00                   | 0.00                  |
| 5,800.00                        | 4.34            | 117.41      | 5,798.54              | -20.30       | 39.15        | -20.59                  | 0.00                    | 0.00                   | 0.00                  |
| 5,900.00                        | 4.34            | 117.41      | 5,898.25              | -23.78       | 45.87        | -24.12                  | 0.00                    | 0.00                   | 0.00                  |
| 6,000.00                        | 4.34            | 117.41      | 5,997.96              | -27.26       | 52.58        | -27.65                  | 0.00                    | 0.00                   | 0.00                  |
| 6,100.00                        | 4.34            | 117.41      | 6,097.68              | -30.74       | 59.29        | -31.18                  | 0.00                    | 0.00                   | 0.00                  |
| 6,200.00                        | 4.34            | 117.41      | 6,197.39              | -34.22       | 66.00        | -34.71                  | 0.00                    | 0.00                   | 0.00                  |
| 6,300.00                        | 4.34            | 117.41      | 6,297.11              | -37.70       | 72.72        | -38.24                  | 0.00                    | 0.00                   | 0.00                  |
| 6,400.00                        | 4.34            | 117.41      | 6,396.82              | -41.19       | 79.43        | -41.77                  | 0.00                    | 0.00                   | 0.00                  |
| 6,500.00                        | 4.34            | 117.41      | 6,496.53              | -44.67       | 86.14        | -45.30                  | 0.00                    | 0.00                   | 0.00                  |
| 6,600.00                        | 4.34            | 117.41      | 6,596.25              | -48.15       | 92.85        | -48.83                  | 0.00                    | 0.00                   | 0.00                  |
| 6,700.00                        | 4.34            | 117.41      | 6,695.96              | -51.63       | 99.57        | -52.36                  | 0.00                    | 0.00                   | 0.00                  |
| 6,800.00                        | 4.34            | 117.41      | 6,795.67              | -55.11       | 106.28       | -55.89                  | 0.00                    | 0.00                   | 0.00                  |
| 6,900.00                        | 4.34            | 117.41      | 6,895.39              | -58.59       | 112.99       | -59.42                  | 0.00                    | 0.00                   | 0.00                  |
| 7,000.00                        | 4.34            | 117.41      | 6,995.10              | -62.07       | 119.70       | -62.94                  | 0.00                    | 0.00                   | 0.00                  |
| 7,100.00                        | 4.34            | 117.41      | 7,094.82              | -65.55       | 126.42       | -66.47                  | 0.00                    | 0.00                   | 0.00                  |
| 7,200.00                        | 4.34            | 117.41      | 7,194.53              | -69.03       | 133.13       | -70.00                  | 0.00                    | 0.00                   | 0.00                  |
| 7,300.00                        | 4.34            | 117.41      | 7,294.24              | -72.51       | 139.84       | -73.53                  | 0.00                    | 0.00                   | 0.00                  |
| 7,400.00                        | 4.34            | 117.41      | 7,393.96              | -75.99       | 146.56       | -77.06                  | 0.00                    | 0.00                   | 0.00                  |
| 7,500.00                        | 4.34            | 117.41      | 7,493.67              | -79.47       | 153.27       | -80.59                  | 0.00                    | 0.00                   | 0.00                  |
| 7,600.00                        | 4.34            | 117.41      | 7,593.38              | -82.95       | 159.98       | -84.12                  | 0.00                    | 0.00                   | 0.00                  |
| 7,700.00                        | 4.34            | 117.41      | 7,693.10              | -86.43       | 166.69       | -87.65                  | 0.00                    | 0.00                   | 0.00                  |
| 7,800.00                        | 4.34            | 117.41      | 7,792.81              | -89.91       | 173.41       | -91.18                  | 0.00                    | 0.00                   | 0.00                  |
| 7,900.00                        | 4.34            | 117.41      | 7,892.53              | -93.39       | 180.12       | -94.71                  | 0.00                    | 0.00                   | 0.00                  |
| 8,000.00                        | 4.34            | 117.41      | 7,992.24              | -96.88       | 186.83       | -98.24                  | 0.00                    | 0.00                   | 0.00                  |
| 8,100.00                        | 4.34            | 117.41      | 8,091.95              | -100.36      | 193.54       | -101.77                 | 0.00                    | 0.00                   | 0.00                  |
| 8,200.00                        | 4.34            | 117.41      | 8,191.67              | -103.84      | 200.26       | -105.30                 | 0.00                    | 0.00                   | 0.00                  |
| 8,300.00                        | 4.34            | 117.41      | 8,291.38              | -107.32      | 206.97       | -108.83                 | 0.00                    | 0.00                   | 0.00                  |
| 8,400.00                        | 4.34            | 117.41      | 8,391.09              | -110.80      | 213.68       | -112.36                 | 0.00                    | 0.00                   | 0.00                  |
| 8,500.00                        | 4.34            | 117.41      | 8,490.81              | -114.28      | 220.39       | -115.89                 | 0.00                    | 0.00                   | 0.00                  |
| 8,600.00                        | 4.34            | 117.41      | 8,590.52              | -117.76      | 227.11       | -119.42                 | 0.00                    | 0.00                   | 0.00                  |
| 8,700.00                        | 4.34            | 117.41      | 8,690.24              | -121.24      | 233.82       | -122.95                 | 0.00                    | 0.00                   | 0.00                  |
| 8,800.00                        | 4.34            | 117.41      | 8,789.95              | -124.72      | 240.53       | -126.48                 | 0.00                    | 0.00                   | 0.00                  |
| 8,900.00                        | 4.34            | 117.41      | 8,889.66              | -128.20      | 247.24       | -130.01                 | 0.00                    | 0.00                   | 0.00                  |
| 9,000.00                        | 4.34            | 117.41      | 8,989.38              | -131.68      | 253.96       | -133.54                 | 0.00                    | 0.00                   | 0.00                  |
| 9,100.00                        | 4.34            | 117.41      | 9,089.09              | -135.16      | 260.67       | -137.07                 | 0.00                    | 0.00                   | 0.00                  |
| 9,200.00                        | 4.34            | 117.41      | 9,188.80              | -138.64      | 267.38       | -140.60                 | 0.00                    | 0.00                   | 0.00                  |
| 9,300.00                        | 4.34            | 117.41      | 9,288.52              | -142.12      | 274.09       | -144.13                 | 0.00                    | 0.00                   | 0.00                  |

## Aim Directional Services, LLC

## Survey Report

|                  |                              |                                     |                                            |
|------------------|------------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | Advance Energy Partners, LLC | <b>Local Co-ordinate Reference:</b> | Well #804H - Slot 804H                     |
| <b>Project:</b>  | Lea County, New Mexico       | <b>TVD Reference:</b>               | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Site:</b>     | Dagger State Com 804H        | <b>MD Reference:</b>                | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Well:</b>     | #804H                        | <b>North Reference:</b>             | Grid                                       |
| <b>Wellbore:</b> | Lateral 1r0                  | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Plan 1.0                     | <b>Database:</b>                    | EDM 5000.1 Aim Database                    |

| 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) |  |
| 9,400.00               | 4.34            | 117.41      | 9,388.23              | -145.60      | 280.81       | -147.66                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,500.00               | 4.34            | 117.41      | 9,487.95              | -149.08      | 287.52       | -151.19                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,600.00               | 4.34            | 117.41      | 9,587.66              | -152.57      | 294.23       | -154.72                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,700.00               | 4.34            | 117.41      | 9,687.37              | -156.05      | 300.95       | -158.25                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,800.00               | 4.34            | 117.41      | 9,787.09              | -159.53      | 307.66       | -161.78                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,900.00               | 4.34            | 117.41      | 9,886.80              | -163.01      | 314.37       | -165.31                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,000.00              | 4.34            | 117.41      | 9,986.51              | -166.49      | 321.08       | -168.84                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,100.00              | 4.34            | 117.41      | 10,086.23             | -169.97      | 327.80       | -172.37                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,200.00              | 4.34            | 117.41      | 10,185.94             | -173.45      | 334.51       | -175.90                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,300.00              | 4.34            | 117.41      | 10,285.65             | -176.93      | 341.22       | -179.43                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,400.00              | 4.34            | 117.41      | 10,385.37             | -180.41      | 347.93       | -182.96                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,500.00              | 4.34            | 117.41      | 10,485.08             | -183.89      | 354.65       | -186.49                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,600.00              | 4.34            | 117.41      | 10,584.80             | -187.37      | 361.36       | -190.02                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,700.00              | 4.34            | 117.41      | 10,684.51             | -190.85      | 368.07       | -193.54                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,800.00              | 4.34            | 117.41      | 10,784.22             | -194.33      | 374.78       | -197.07                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,900.00              | 4.34            | 117.41      | 10,883.94             | -197.81      | 381.50       | -200.60                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,000.00              | 4.34            | 117.41      | 10,983.65             | -201.29      | 388.21       | -204.13                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,033.21              | 4.34            | 117.41      | 11,016.77             | -202.45      | 390.44       | -205.31                 | 0.00                    | 0.00                   | 0.00                  |  |
| Drop 1.00°/100'        |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 11,100.00              | 3.67            | 117.41      | 11,083.39             | -204.60      | 394.58       | -207.48                 | 1.00                    | -1.00                  | 0.00                  |  |
| 11,200.00              | 2.67            | 117.41      | 11,183.24             | -207.14      | 399.48       | -210.06                 | 1.00                    | -1.00                  | 0.00                  |  |
| 11,300.00              | 1.67            | 117.41      | 11,283.17             | -208.88      | 402.84       | -211.83                 | 1.00                    | -1.00                  | 0.00                  |  |
| 11,400.00              | 0.67            | 117.41      | 11,383.14             | -209.82      | 404.65       | -212.78                 | 1.00                    | -1.00                  | 0.00                  |  |
| 11,466.86              | 0.00            | 0.00        | 11,450.00             | -210.00      | 405.00       | -212.96                 | 1.00                    | -1.00                  | -175.61               |  |
| Hold Vertical          |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 11,500.00              | 0.00            | 0.00        | 11,483.14             | -210.00      | 405.00       | -212.96                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,600.00              | 0.00            | 0.00        | 11,583.14             | -210.00      | 405.00       | -212.96                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,700.40              | 0.00            | 0.00        | 11,683.54             | -210.00      | 405.00       | -212.96                 | 0.00                    | 0.00                   | 0.00                  |  |
| KOP, Build 12.00°/100' |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 11,725.00              | 2.95            | 0.42        | 11,708.13             | -209.37      | 405.00       | -212.33                 | 12.00                   | 12.00                  | 0.00                  |  |
| 11,750.00              | 5.95            | 0.42        | 11,733.05             | -207.43      | 405.02       | -210.39                 | 12.00                   | 12.00                  | 0.00                  |  |
| 11,775.00              | 8.95            | 0.42        | 11,757.84             | -204.18      | 405.04       | -207.15                 | 12.00                   | 12.00                  | 0.00                  |  |
| 11,800.00              | 11.95           | 0.42        | 11,782.42             | -199.65      | 405.08       | -202.61                 | 12.00                   | 12.00                  | 0.00                  |  |
| 11,825.00              | 14.95           | 0.42        | 11,806.73             | -193.83      | 405.12       | -196.80                 | 12.00                   | 12.00                  | 0.00                  |  |
| 11,850.00              | 17.95           | 0.42        | 11,830.71             | -186.75      | 405.17       | -189.72                 | 12.00                   | 12.00                  | 0.00                  |  |
| 11,875.00              | 20.95           | 0.42        | 11,854.28             | -178.43      | 405.23       | -181.40                 | 12.00                   | 12.00                  | 0.00                  |  |
| 11,900.00              | 23.95           | 0.42        | 11,877.38             | -168.88      | 405.30       | -171.85                 | 12.00                   | 12.00                  | 0.00                  |  |
| 11,925.00              | 26.95           | 0.42        | 11,899.95             | -158.14      | 405.38       | -161.11                 | 12.00                   | 12.00                  | 0.00                  |  |
| 11,950.00              | 29.95           | 0.42        | 11,921.93             | -146.23      | 405.47       | -149.20                 | 12.00                   | 12.00                  | 0.00                  |  |
| 11,975.00              | 32.95           | 0.42        | 11,943.25             | -133.19      | 405.56       | -136.16                 | 12.00                   | 12.00                  | 0.00                  |  |
| 12,000.00              | 35.95           | 0.42        | 11,963.86             | -119.05      | 405.67       | -122.02                 | 12.00                   | 12.00                  | 0.00                  |  |
| 12,025.00              | 38.95           | 0.42        | 11,983.71             | -103.85      | 405.78       | -106.82                 | 12.00                   | 12.00                  | 0.00                  |  |
| 12,050.00              | 41.95           | 0.42        | 12,002.73             | -87.63       | 405.90       | -90.60                  | 12.00                   | 12.00                  | 0.00                  |  |
| 12,075.00              | 44.95           | 0.42        | 12,020.88             | -70.44       | 406.02       | -73.41                  | 12.00                   | 12.00                  | 0.00                  |  |

## Aim Directional Services, LLC

## Survey Report

|                  |                              |                                     |                                            |
|------------------|------------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | Advance Energy Partners, LLC | <b>Local Co-ordinate Reference:</b> | Well #804H - Slot 804H                     |
| <b>Project:</b>  | Lea County, New Mexico       | <b>TVD Reference:</b>               | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Site:</b>     | Dagger State Com 804H        | <b>MD Reference:</b>                | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Well:</b>     | #804H                        | <b>North Reference:</b>             | Grid                                       |
| <b>Wellbore:</b> | Lateral 1r0                  | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Plan 1.0                     | <b>Database:</b>                    | EDM 5000.1 Aim Database                    |

| 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) |  |
| 12,100.00                          | 47.95           | 0.42        | 12,038.10             | -52.32       | 406.16       | -55.30                  | 12.00                   | 12.00                  | 0.00                  |  |
| 12,125.00                          | 50.95           | 0.42        | 12,054.35             | -33.33       | 406.30       | -36.31                  | 12.00                   | 12.00                  | 0.00                  |  |
| 12,150.00                          | 53.95           | 0.42        | 12,069.58             | -13.51       | 406.44       | -16.49                  | 12.00                   | 12.00                  | 0.00                  |  |
| 12,175.00                          | 56.95           | 0.42        | 12,083.76             | 7.08         | 406.59       | 4.10                    | 12.00                   | 12.00                  | 0.00                  |  |
| 12,200.00                          | 59.95           | 0.42        | 12,096.84             | 28.38        | 406.75       | 25.40                   | 12.00                   | 12.00                  | 0.00                  |  |
| 12,225.00                          | 62.95           | 0.42        | 12,108.78             | 50.34        | 406.91       | 47.35                   | 12.00                   | 12.00                  | 0.00                  |  |
| 12,250.00                          | 65.95           | 0.42        | 12,119.56             | 72.89        | 407.07       | 69.91                   | 12.00                   | 12.00                  | 0.00                  |  |
| 12,275.00                          | 68.95           | 0.42        | 12,129.15             | 95.98        | 407.24       | 92.99                   | 12.00                   | 12.00                  | 0.00                  |  |
| 12,300.00                          | 71.95           | 0.42        | 12,137.51             | 119.53       | 407.42       | 116.54                  | 12.00                   | 12.00                  | 0.00                  |  |
| 12,325.00                          | 74.95           | 0.42        | 12,144.63             | 143.49       | 407.59       | 140.50                  | 12.00                   | 12.00                  | 0.00                  |  |
| 12,350.00                          | 77.95           | 0.42        | 12,150.49             | 167.79       | 407.77       | 164.80                  | 12.00                   | 12.00                  | 0.00                  |  |
| 12,375.00                          | 80.95           | 0.42        | 12,155.06             | 192.37       | 407.95       | 189.37                  | 12.00                   | 12.00                  | 0.00                  |  |
| 12,400.00                          | 83.95           | 0.42        | 12,158.35             | 217.15       | 408.13       | 214.15                  | 12.00                   | 12.00                  | 0.00                  |  |
| 12,425.00                          | 86.95           | 0.42        | 12,160.33             | 242.07       | 408.31       | 239.07                  | 12.00                   | 12.00                  | 0.00                  |  |
| 12,450.40                          | 90.00           | 0.42        | 12,161.01             | 267.45       | 408.50       | 264.45                  | 12.00                   | 12.00                  | 0.00                  |  |
| LP, Hold 90.00° Inc, 0.42° Azimuth |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 12,452.70                          | 90.00           | 0.42        | 12,161.01             | 269.75       | 408.52       | 266.75                  | 0.00                    | 0.00                   | 0.00                  |  |
| Build Turn 2.00°/100'              |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 12,500.00                          | 90.81           | 359.93      | 12,160.67             | 317.05       | 408.66       | 314.05                  | 2.00                    | 1.70                   | -1.05                 |  |
| 12,532.97                          | 91.37           | 359.58      | 12,160.05             | 350.01       | 408.52       | 347.01                  | 2.00                    | 1.70                   | -1.05                 |  |
| Hold 91.37° Inc, 359.58° Azimuth   |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 12,600.00                          | 91.37           | 359.58      | 12,158.45             | 417.02       | 408.03       | 414.02                  | 0.00                    | 0.00                   | 0.00                  |  |
| 12,700.00                          | 91.37           | 359.58      | 12,156.06             | 516.99       | 407.29       | 513.99                  | 0.00                    | 0.00                   | 0.00                  |  |
| 12,800.00                          | 91.37           | 359.58      | 12,153.67             | 616.96       | 406.56       | 613.97                  | 0.00                    | 0.00                   | 0.00                  |  |
| 12,900.00                          | 91.37           | 359.58      | 12,151.28             | 716.93       | 405.83       | 713.94                  | 0.00                    | 0.00                   | 0.00                  |  |
| 13,000.00                          | 91.37           | 359.58      | 12,148.89             | 816.90       | 405.10       | 813.91                  | 0.00                    | 0.00                   | 0.00                  |  |
| 13,100.00                          | 91.37           | 359.58      | 12,146.51             | 916.87       | 404.37       | 913.88                  | 0.00                    | 0.00                   | 0.00                  |  |
| 13,121.14                          | 91.37           | 359.58      | 12,146.00             | 938.00       | 404.21       | 935.01                  | 0.00                    | 0.00                   | 0.00                  |  |
| Build 2.00°/100'                   |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 13,145.96                          | 91.86           | 359.58      | 12,145.30             | 962.81       | 404.03       | 959.82                  | 2.00                    | 2.00                   | 0.00                  |  |
| Hold 91.86° Inc, 359.58° Azimuth   |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 13,200.00                          | 91.86           | 359.58      | 12,143.54             | 1,016.82     | 403.64       | 1,013.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,300.00                          | 91.86           | 359.58      | 12,140.29             | 1,116.77     | 402.90       | 1,113.78                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,400.00                          | 91.86           | 359.58      | 12,137.03             | 1,216.71     | 402.17       | 1,213.73                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,500.00                          | 91.86           | 359.58      | 12,133.78             | 1,316.65     | 401.44       | 1,313.68                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,600.00                          | 91.86           | 359.58      | 12,130.52             | 1,416.60     | 400.71       | 1,413.62                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,700.00                          | 91.86           | 359.58      | 12,127.27             | 1,516.54     | 399.98       | 1,513.57                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,800.00                          | 91.86           | 359.58      | 12,124.02             | 1,616.49     | 399.24       | 1,613.52                | 0.00                    | 0.00                   | 0.00                  |  |
| 13,900.00                          | 91.86           | 359.58      | 12,120.76             | 1,716.43     | 398.51       | 1,713.46                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,000.00                          | 91.86           | 359.58      | 12,117.51             | 1,816.38     | 397.78       | 1,813.41                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,100.00                          | 91.86           | 359.58      | 12,114.25             | 1,916.32     | 397.05       | 1,913.36                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,200.00                          | 91.86           | 359.58      | 12,111.00             | 2,016.26     | 396.32       | 2,013.31                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,300.00                          | 91.86           | 359.58      | 12,107.75             | 2,116.21     | 395.59       | 2,113.25                | 0.00                    | 0.00                   | 0.00                  |  |
| 14,400.00                          | 91.86           | 359.58      | 12,104.49             | 2,216.15     | 394.85       | 2,213.20                | 0.00                    | 0.00                   | 0.00                  |  |

## Aim Directional Services, LLC

## Survey Report

|                  |                              |                                     |                                            |
|------------------|------------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | Advance Energy Partners, LLC | <b>Local Co-ordinate Reference:</b> | Well #804H - Slot 804H                     |
| <b>Project:</b>  | Lea County, New Mexico       | <b>TVD Reference:</b>               | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Site:</b>     | Dagger State Com 804H        | <b>MD Reference:</b>                | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Well:</b>     | #804H                        | <b>North Reference:</b>             | Grid                                       |
| <b>Wellbore:</b> | Lateral 1r0                  | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Plan 1.0                     | <b>Database:</b>                    | EDM 5000.1 Aim Database                    |

| 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) |
| 14,500.00                               | 91.86           | 359.58      | 12,101.24             | 2,316.10     | 394.12       | 2,313.15                | 0.00                    | 0.00                   | 0.00                  |
| 14,599.46                               | 91.86           | 359.58      | 12,098.00             | 2,415.50     | 393.39       | 2,412.55                | 0.00                    | 0.00                   | 0.00                  |
| <b>Build 2.00°/100'</b>                 |                 |             |                       |              |              |                         |                         |                        |                       |
| 14,617.81                               | 92.23           | 359.58      | 12,097.34             | 2,433.84     | 393.26       | 2,430.89                | 2.00                    | 2.00                   | 0.00                  |
| <b>Hold 92.23° Inc, 359.58° Azimuth</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 14,700.00                               | 92.23           | 359.58      | 12,094.14             | 2,515.97     | 392.66       | 2,513.02                | 0.00                    | 0.00                   | 0.00                  |
| 14,800.00                               | 92.23           | 359.58      | 12,090.25             | 2,615.89     | 391.93       | 2,612.94                | 0.00                    | 0.00                   | 0.00                  |
| 14,900.00                               | 92.23           | 359.58      | 12,086.35             | 2,715.81     | 391.20       | 2,712.87                | 0.00                    | 0.00                   | 0.00                  |
| 15,000.00                               | 92.23           | 359.58      | 12,082.46             | 2,815.73     | 390.46       | 2,812.79                | 0.00                    | 0.00                   | 0.00                  |
| 15,100.00                               | 92.23           | 359.58      | 12,078.57             | 2,915.65     | 389.73       | 2,912.72                | 0.00                    | 0.00                   | 0.00                  |
| 15,200.00                               | 92.23           | 359.58      | 12,074.67             | 3,015.57     | 389.00       | 3,012.64                | 0.00                    | 0.00                   | 0.00                  |
| 15,300.00                               | 92.23           | 359.58      | 12,070.78             | 3,115.49     | 388.27       | 3,112.56                | 0.00                    | 0.00                   | 0.00                  |
| 15,400.00                               | 92.23           | 359.58      | 12,066.88             | 3,215.42     | 387.54       | 3,212.49                | 0.00                    | 0.00                   | 0.00                  |
| 15,500.00                               | 92.23           | 359.58      | 12,062.99             | 3,315.34     | 386.81       | 3,312.41                | 0.00                    | 0.00                   | 0.00                  |
| 15,600.00                               | 92.23           | 359.58      | 12,059.09             | 3,415.26     | 386.07       | 3,412.34                | 0.00                    | 0.00                   | 0.00                  |
| 15,700.00                               | 92.23           | 359.58      | 12,055.20             | 3,515.18     | 385.34       | 3,512.26                | 0.00                    | 0.00                   | 0.00                  |
| 15,807.80                               | 92.23           | 359.58      | 12,051.00             | 3,622.90     | 384.55       | 3,619.98                | 0.00                    | 0.00                   | 0.00                  |
| <b>Drop 2.00°/100'</b>                  |                 |             |                       |              |              |                         |                         |                        |                       |
| 15,904.02                               | 90.31           | 359.58      | 12,048.87             | 3,719.09     | 383.85       | 3,716.18                | 2.00                    | -2.00                  | 0.00                  |
| <b>Hold 90.31° Inc, 359.58° Azimuth</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 16,000.00                               | 90.31           | 359.58      | 12,048.35             | 3,815.06     | 383.15       | 3,812.15                | 0.00                    | 0.00                   | 0.00                  |
| 16,100.00                               | 90.31           | 359.58      | 12,047.82             | 3,915.06     | 382.42       | 3,912.15                | 0.00                    | 0.00                   | 0.00                  |
| 16,200.00                               | 90.31           | 359.58      | 12,047.28             | 4,015.05     | 381.68       | 4,012.15                | 0.00                    | 0.00                   | 0.00                  |
| 16,300.00                               | 90.31           | 359.58      | 12,046.74             | 4,115.05     | 380.95       | 4,112.15                | 0.00                    | 0.00                   | 0.00                  |
| 16,400.00                               | 90.31           | 359.58      | 12,046.21             | 4,215.04     | 380.22       | 4,212.14                | 0.00                    | 0.00                   | 0.00                  |
| 16,500.00                               | 90.31           | 359.58      | 12,045.67             | 4,315.04     | 379.49       | 4,312.14                | 0.00                    | 0.00                   | 0.00                  |
| 16,600.00                               | 90.31           | 359.58      | 12,045.13             | 4,415.04     | 378.75       | 4,412.14                | 0.00                    | 0.00                   | 0.00                  |
| 16,700.00                               | 90.31           | 359.58      | 12,044.60             | 4,515.03     | 378.02       | 4,512.14                | 0.00                    | 0.00                   | 0.00                  |
| 16,800.00                               | 90.31           | 359.58      | 12,044.06             | 4,615.03     | 377.29       | 4,612.14                | 0.00                    | 0.00                   | 0.00                  |
| 16,810.97                               | 90.31           | 359.58      | 12,044.00             | 4,626.00     | 377.21       | 4,623.11                | 0.00                    | 0.00                   | 0.00                  |
| <b>Drop 2.00°/100'</b>                  |                 |             |                       |              |              |                         |                         |                        |                       |
| 16,816.42                               | 90.20           | 359.58      | 12,043.98             | 4,631.45     | 377.17       | 4,628.56                | 2.00                    | -2.00                  | 0.00                  |
| <b>Hold 90.20° Inc, 359.58° Azimuth</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 16,900.00                               | 90.20           | 359.58      | 12,043.69             | 4,715.02     | 376.56       | 4,712.14                | 0.00                    | 0.00                   | 0.00                  |
| 17,000.00                               | 90.20           | 359.58      | 12,043.34             | 4,815.02     | 375.83       | 4,812.14                | 0.00                    | 0.00                   | 0.00                  |
| 17,100.00                               | 90.20           | 359.58      | 12,042.99             | 4,915.02     | 375.09       | 4,912.14                | 0.00                    | 0.00                   | 0.00                  |
| 17,200.00                               | 90.20           | 359.58      | 12,042.65             | 5,015.01     | 374.36       | 5,012.14                | 0.00                    | 0.00                   | 0.00                  |
| 17,300.00                               | 90.20           | 359.58      | 12,042.30             | 5,115.01     | 373.63       | 5,112.14                | 0.00                    | 0.00                   | 0.00                  |
| 17,400.00                               | 90.20           | 359.58      | 12,041.95             | 5,215.01     | 372.90       | 5,212.13                | 0.00                    | 0.00                   | 0.00                  |
| 17,500.00                               | 90.20           | 359.58      | 12,041.61             | 5,315.01     | 372.17       | 5,312.13                | 0.00                    | 0.00                   | 0.00                  |
| 17,600.00                               | 90.20           | 359.58      | 12,041.26             | 5,415.00     | 371.43       | 5,412.13                | 0.00                    | 0.00                   | 0.00                  |
| 17,700.00                               | 90.20           | 359.58      | 12,040.91             | 5,515.00     | 370.70       | 5,512.13                | 0.00                    | 0.00                   | 0.00                  |
| 17,800.00                               | 90.20           | 359.58      | 12,040.57             | 5,615.00     | 369.97       | 5,612.13                | 0.00                    | 0.00                   | 0.00                  |
| 17,900.00                               | 90.20           | 359.58      | 12,040.22             | 5,714.99     | 369.24       | 5,712.13                | 0.00                    | 0.00                   | 0.00                  |
| 17,964.01                               | 90.20           | 359.58      | 12,040.00             | 5,779.00     | 368.77       | 5,776.14                | 0.00                    | 0.00                   | 0.00                  |

## Aim Directional Services, LLC

## Survey Report

|                  |                              |                                     |                                            |
|------------------|------------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | Advance Energy Partners, LLC | <b>Local Co-ordinate Reference:</b> | Well #804H - Slot 804H                     |
| <b>Project:</b>  | Lea County, New Mexico       | <b>TVD Reference:</b>               | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Site:</b>     | Dagger State Com 804H        | <b>MD Reference:</b>                | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Well:</b>     | #804H                        | <b>North Reference:</b>             | Grid                                       |
| <b>Wellbore:</b> | Lateral 1r0                  | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Plan 1.0                     | <b>Database:</b>                    | EDM 5000.1 Aim Database                    |

## 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) |
|-----------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| <b>Drop 2.00°/100'</b>                  |                 |             |                       |              |              |                         |                         |                        |                       |
| 17,984.48                               | 89.79           | 359.58      | 12,040.00             | 5,799.47     | 368.62       | 5,796.61                | 2.00                    | -2.00                  | 0.00                  |
| <b>Hold 89.79° Inc, 359.58° Azimuth</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 18,000.00                               | 89.79           | 359.58      | 12,040.06             | 5,814.99     | 368.50       | 5,812.13                | 0.00                    | 0.00                   | 0.00                  |
| 18,100.00                               | 89.79           | 359.58      | 12,040.43             | 5,914.99     | 367.77       | 5,912.13                | 0.00                    | 0.00                   | 0.00                  |
| 18,200.00                               | 89.79           | 359.58      | 12,040.80             | 6,014.98     | 367.04       | 6,012.13                | 0.00                    | 0.00                   | 0.00                  |
| 18,300.00                               | 89.79           | 359.58      | 12,041.16             | 6,114.98     | 366.31       | 6,112.13                | 0.00                    | 0.00                   | 0.00                  |
| 18,400.00                               | 89.79           | 359.58      | 12,041.53             | 6,214.98     | 365.58       | 6,212.13                | 0.00                    | 0.00                   | 0.00                  |
| 18,500.00                               | 89.79           | 359.58      | 12,041.90             | 6,314.97     | 364.84       | 6,312.13                | 0.00                    | 0.00                   | 0.00                  |
| 18,600.00                               | 89.79           | 359.58      | 12,042.27             | 6,414.97     | 364.11       | 6,412.13                | 0.00                    | 0.00                   | 0.00                  |
| 18,700.00                               | 89.79           | 359.58      | 12,042.64             | 6,514.97     | 363.38       | 6,512.13                | 0.00                    | 0.00                   | 0.00                  |
| 18,800.00                               | 89.79           | 359.58      | 12,043.00             | 6,614.96     | 362.65       | 6,612.13                | 0.00                    | 0.00                   | 0.00                  |
| 18,900.00                               | 89.79           | 359.58      | 12,043.37             | 6,714.96     | 361.92       | 6,712.13                | 0.00                    | 0.00                   | 0.00                  |
| 19,000.00                               | 89.79           | 359.58      | 12,043.74             | 6,814.96     | 361.18       | 6,812.12                | 0.00                    | 0.00                   | 0.00                  |
| 19,071.05                               | 89.79           | 359.58      | 12,044.00             | 6,886.00     | 360.66       | 6,883.17                | 0.00                    | 0.00                   | 0.00                  |
| <b>Build 2.00°/100'</b>                 |                 |             |                       |              |              |                         |                         |                        |                       |
| 19,100.00                               | 90.37           | 359.58      | 12,043.96             | 6,914.95     | 360.45       | 6,912.12                | 2.00                    | 2.00                   | 0.00                  |
| 19,143.61                               | 91.24           | 359.58      | 12,043.35             | 6,958.56     | 360.13       | 6,955.73                | 2.00                    | 2.00                   | 0.00                  |
| <b>Hold 91.24° Inc, 359.58° Azimuth</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 19,200.00                               | 91.24           | 359.58      | 12,042.13             | 7,014.93     | 359.72       | 7,012.11                | 0.00                    | 0.00                   | 0.00                  |
| 19,300.00                               | 91.24           | 359.58      | 12,039.96             | 7,114.91     | 358.99       | 7,112.08                | 0.00                    | 0.00                   | 0.00                  |
| 19,400.00                               | 91.24           | 359.58      | 12,037.80             | 7,214.88     | 358.26       | 7,212.06                | 0.00                    | 0.00                   | 0.00                  |
| 19,500.00                               | 91.24           | 359.58      | 12,035.63             | 7,314.85     | 357.52       | 7,312.04                | 0.00                    | 0.00                   | 0.00                  |
| 19,600.00                               | 91.24           | 359.58      | 12,033.47             | 7,414.83     | 356.79       | 7,412.01                | 0.00                    | 0.00                   | 0.00                  |
| 19,700.00                               | 91.24           | 359.58      | 12,031.30             | 7,514.80     | 356.06       | 7,511.99                | 0.00                    | 0.00                   | 0.00                  |
| 19,800.00                               | 91.24           | 359.58      | 12,029.14             | 7,614.77     | 355.33       | 7,611.97                | 0.00                    | 0.00                   | 0.00                  |
| 19,900.00                               | 91.24           | 359.58      | 12,026.97             | 7,714.75     | 354.60       | 7,711.94                | 0.00                    | 0.00                   | 0.00                  |
| 20,000.00                               | 91.24           | 359.58      | 12,024.81             | 7,814.72     | 353.86       | 7,811.92                | 0.00                    | 0.00                   | 0.00                  |
| 20,100.00                               | 91.24           | 359.58      | 12,022.64             | 7,914.70     | 353.13       | 7,911.89                | 0.00                    | 0.00                   | 0.00                  |
| 20,200.00                               | 91.24           | 359.58      | 12,020.48             | 8,014.67     | 352.40       | 8,011.87                | 0.00                    | 0.00                   | 0.00                  |
| 20,268.25                               | 91.24           | 359.58      | 12,019.00             | 8,082.90     | 351.90       | 8,080.10                | 0.00                    | 0.00                   | 0.00                  |
| <b>PBHL</b>                             |                 |             |                       |              |              |                         |                         |                        |                       |

## Aim Directional Services, LLC

## Survey Report

|                  |                              |                                     |                                            |
|------------------|------------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | Advance Energy Partners, LLC | <b>Local Co-ordinate Reference:</b> | Well #804H - Slot 804H                     |
| <b>Project:</b>  | Lea County, New Mexico       | <b>TVD Reference:</b>               | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Site:</b>     | Dagger State Com 804H        | <b>MD Reference:</b>                | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Well:</b>     | #804H                        | <b>North Reference:</b>             | Grid                                       |
| <b>Wellbore:</b> | Lateral 1r0                  | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Plan 1.0                     | <b>Database:</b>                    | EDM 5000.1 Aim Database                    |

| Design Targets                                                                                                     |                  |                 |               |                 |                 |                    |                   |                  |                   |
|--------------------------------------------------------------------------------------------------------------------|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|------------------|-------------------|
| Target Name<br>- hit/miss target<br>- Shape                                                                        | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Northing<br>(usft) | Easting<br>(usft) | Latitude         | Longitude         |
| FTP (Dagger804H)<br>- plan misses target center by 489.39usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)<br>- Point | 0.00             | 0.00            | 0.00          | 269.50          | 408.50          | 528,147.90         | 762,637.70        | 32° 26' 59.639 N | 103° 36' 57.301 W |
| PBHL (Dagger804H)<br>- plan hits target center<br>- Point                                                          | 0.00             | 0.00            | 12,019.00     | 8,082.90        | 351.90          | 535,961.30         | 762,581.10        | 32° 28' 16.955 N | 103° 36' 57.349 W |
| WP5 (Dagger804H)<br>- plan hits target center<br>- Point                                                           | 0.00             | 0.00            | 12,040.00     | 5,779.00        | 368.77          | 533,657.40         | 762,597.97        | 32° 27' 54.157 N | 103° 36' 57.333 W |
| WP4 (Dagger804H)<br>- plan hits target center<br>- Point                                                           | 0.00             | 0.00            | 12,044.00     | 4,626.00        | 377.21          | 532,504.40         | 762,606.41        | 32° 27' 42.748 N | 103° 36' 57.325 W |
| WP6 (Dagger804H)<br>- plan hits target center<br>- Point                                                           | 0.00             | 0.00            | 12,044.00     | 6,886.00        | 360.66          | 534,764.40         | 762,589.86        | 32° 28' 5.112 N  | 103° 36' 57.341 W |
| WP3 (Dagger804H)<br>- plan hits target center<br>- Point                                                           | 0.00             | 0.00            | 12,051.00     | 3,622.90        | 384.55          | 531,501.30         | 762,613.75        | 32° 27' 32.822 N | 103° 36' 57.318 W |
| WP2 (Dagger804H)<br>- plan hits target center<br>- Point                                                           | 0.00             | 0.00            | 12,098.00     | 2,415.50        | 393.39          | 530,293.90         | 762,622.59        | 32° 27' 20.874 N | 103° 36' 57.309 W |
| WP1 (Dagger804H)<br>- plan hits target center<br>- Point                                                           | 0.00             | 0.00            | 12,146.00     | 938.00          | 404.21          | 528,816.40         | 762,633.41        | 32° 27' 6.254 N  | 103° 36' 57.299 W |

| Plan Annotations            |                             |                   |                 |                                    |
|-----------------------------|-----------------------------|-------------------|-----------------|------------------------------------|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                            |
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                                    |
| 5000                        | 5000                        | 0                 | 0               | Build 1.00°/100'                   |
| 5434                        | 5433                        | -8                | 15              | Hold 4.34° Inc, 117.41° Azimuth    |
| 11,033                      | 11,017                      | -202              | 390             | Drop 1.00°/100'                    |
| 11,467                      | 11,450                      | -210              | 405             | Hold Vertical                      |
| 11,700                      | 11,684                      | -210              | 405             | KOP, Build 12.00°/100'             |
| 12,450                      | 12,161                      | 267               | 408             | LP, Hold 90.00° Inc, 0.42° Azimuth |
| 12,453                      | 12,161                      | 270               | 409             | Build Turn 2.00°/100'              |
| 12,533                      | 12,160                      | 350               | 409             | Hold 91.37° Inc, 359.58° Azimuth   |
| 13,121                      | 12,146                      | 938               | 404             | Build 2.00°/100'                   |
| 13,146                      | 12,145                      | 963               | 404             | Hold 91.86° Inc, 359.58° Azimuth   |
| 14,599                      | 12,098                      | 2416              | 393             | Build 2.00°/100'                   |
| 14,618                      | 12,097                      | 2434              | 393             | Hold 92.23° Inc, 359.58° Azimuth   |
| 15,808                      | 12,051                      | 3623              | 385             | Drop 2.00°/100'                    |
| 15,904                      | 12,049                      | 3719              | 384             | Hold 90.31° Inc, 359.58° Azimuth   |
| 16,811                      | 12,044                      | 4626              | 377             | Drop 2.00°/100'                    |
| 16,816                      | 12,044                      | 4631              | 377             | Hold 90.20° Inc, 359.58° Azimuth   |
| 17,964                      | 12,040                      | 5779              | 369             | Drop 2.00°/100'                    |
| 17,984                      | 12,040                      | 5799              | 369             | Hold 89.79° Inc, 359.58° Azimuth   |
| 19,071                      | 12,044                      | 6886              | 361             | Build 2.00°/100'                   |
| 19,144                      | 12,043                      | 6959              | 360             | Hold 91.24° Inc, 359.58° Azimuth   |
| 20,268                      | 12,019                      | 8083              | 352             | PBHL                               |

# Advance Energy Partners, LLC

Dagger State Com 804H  
Lea County, New Mexico  
Job No. WT-21-069  
Nabors X50  
Plan 1.0 Final PVA



Received by Imaging: 10/7/2023 2:54:19 PM

Received by OCD: 7/20/2022 12:51:14 PM South(-)/North(+) (2000 usft/in)

Page 21 of 21

## SECTION DETAILS

| Sec | MD       | Inc   | Azi    | TVD      | +N/-S   | +E/-W  | Dleg | TFace | VSec    | Annotation          |
|-----|----------|-------|--------|----------|---------|--------|------|-------|---------|---------------------|
| 1   | 20193.00 | 94.42 | 359.40 | 12026.81 | 8036.05 | 341.68 | 0.00 | 0.00  | 8033.33 | Last Aim MWD Survey |
| 2   | 20310.00 | 94.42 | 359.40 | 12017.79 | 8152.69 | 340.46 | 0.00 | 0.00  | 8149.98 | Projection to BHL   |

## DESIGN TARGET DETAILS

| Name              | TVD      | +N/-S   | +E/-W  | Northing  | Easting   | Latitude         | Longitude         |
|-------------------|----------|---------|--------|-----------|-----------|------------------|-------------------|
| FTP (Dagger804H)  | 0.00     | 269.50  | 408.50 | 528147.90 | 762637.70 | 32° 26' 59.639 N | 103° 36' 57.301 W |
| PBHL (Dagger804H) | 12019.00 | 8082.90 | 351.90 | 535961.30 | 762581.10 | 32° 28' 16.955 N | 103° 36' 57.349 W |
| WP1 (Dagger804H)  | 12146.00 | 938.00  | 404.21 | 528816.40 | 762633.41 | 32° 27' 6.254 N  | 103° 36' 57.299 W |
| WP2 (Dagger804H)  | 12098.00 | 2415.50 | 393.39 | 530293.90 | 762622.59 | 32° 27' 20.874 N | 103° 36' 57.309 W |
| WP3 (Dagger804H)  | 12051.00 | 3622.90 | 384.55 | 531501.30 | 762613.75 | 32° 27' 32.822 N | 103° 36' 57.318 W |
| WP4 (Dagger804H)  | 12044.00 | 4626.00 | 377.21 | 532504.40 | 762606.41 | 32° 27' 42.748 N | 103° 36' 57.325 W |
| WP5 (Dagger804H)  | 12040.00 | 5779.00 | 368.77 | 533657.40 | 762597.97 | 32° 27' 54.157 N | 103° 36' 57.333 W |
| WP6 (Dagger804H)  | 12044.00 | 6886.00 | 360.66 | 534764.40 | 762589.86 | 32° 28' 5.112 N  | 103° 36' 57.341 W |

## SITE DETAILS: Dagger State Com 804H

Site Centre Northing: 527878.40  
Easting: 762229.20

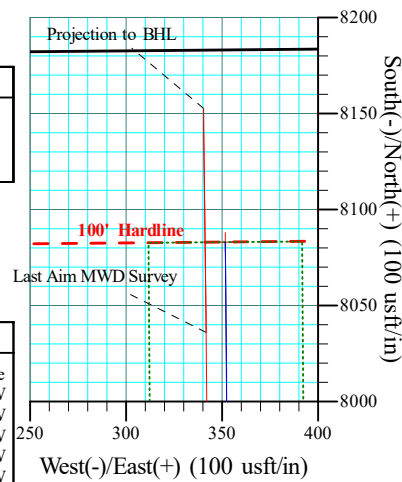
Positional Uncertainty: 0.00  
Convergence: 0.38  
Local North: Grid

## PROJECT DETAILS: Lea County, New Mexico

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

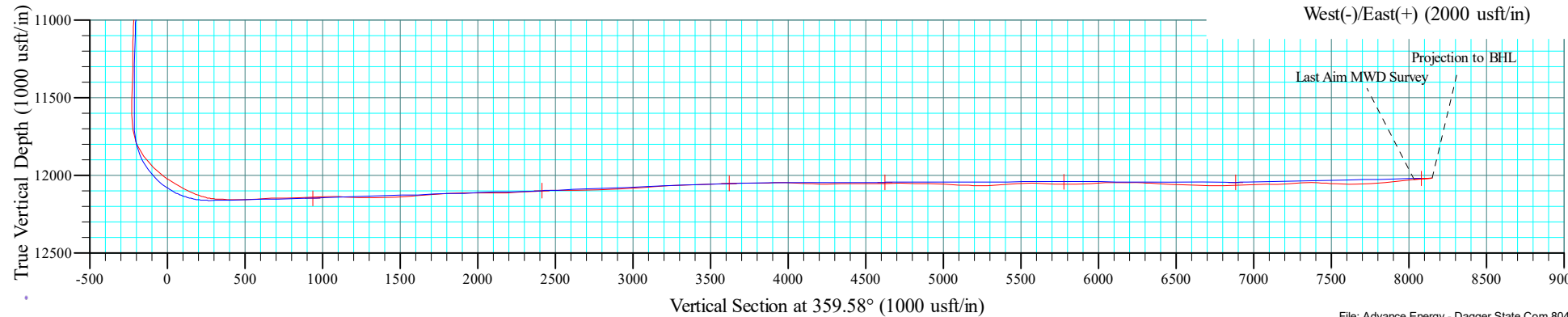
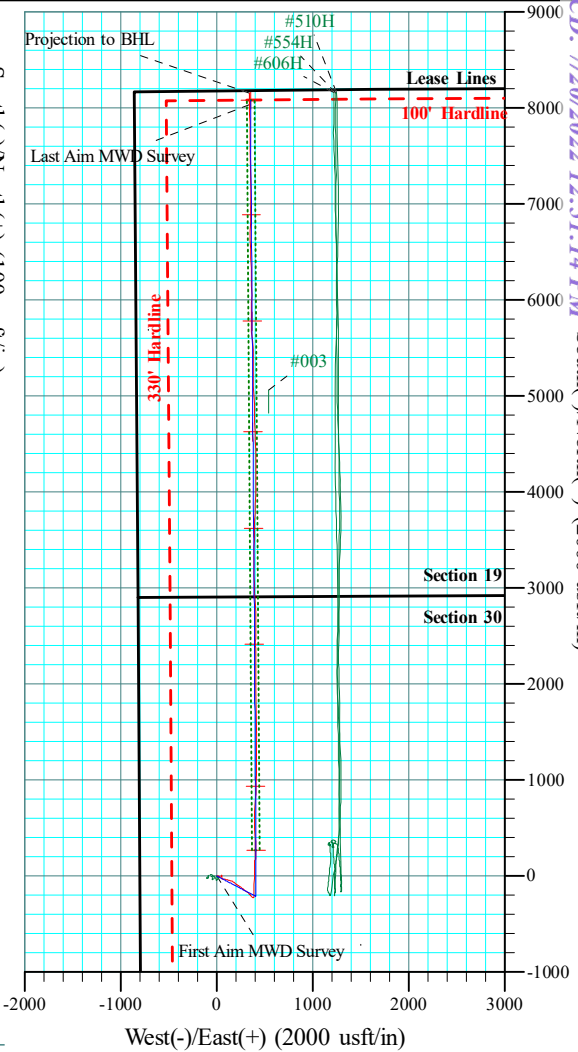
System Datum: Mean Sea Level

Depth Reference:  
3816GL+32.5'KB @ 3848.50usft (Nabors X50)



Magnetic North: 6.08° to Grid North

Azimuths to Grid North  
True North: -0.38°  
Magnetic North: 6.08°  
  
Magnetic Field  
Strength: 47907.6nT  
Dip Angle: 60.18°  
Date: 5/27/2021  
Model: MVHD





# Survey Reports

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## **Dagger State Com 804H (WT-21-069)**

2021-06-01 to 2021-07-02

Lea, New Mexico, US (32.45, -103.62)

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## Aim Directional Services, LLC

## Survey Report

|                  |                              |                                     |                                            |
|------------------|------------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | Advance Energy Partners, LLC | <b>Local Co-ordinate Reference:</b> | Well #804H - Slot 804H                     |
| <b>Project:</b>  | Lea County, New Mexico       | <b>TVD Reference:</b>               | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Site:</b>     | Dagger State Com 804H        | <b>MD Reference:</b>                | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Well:</b>     | #804H                        | <b>North Reference:</b>             | Grid                                       |
| <b>Wellbore:</b> | Aim MWD Surveys              | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Aim MWD Surveys              | <b>Database:</b>                    | EDM 5000.1 Aim Database                    |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Lea County, New Mexico    |                      |                |
| <b>Map System:</b> | US State Plane 1983       | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983 |                      |                |
| <b>Map Zone:</b>   | New Mexico Eastern Zone   |                      |                |

| Site                  |           | Dagger State Com 804H |                 |                   |                  |
|-----------------------|-----------|-----------------------|-----------------|-------------------|------------------|
| Site Position:        |           | Northing:             | 527,878.40 usft | Latitude:         | 32° 26' 56.999 N |
| From:                 | Map       | Easting:              | 762,229.20 usft | Longitude:        | 103° 37' 2.089 W |
| Position Uncertainty: | 0.00 usft | Slot Radius:          | 13-3/16 "       | Grid Convergence: | 0.38 °           |

|                      |                   |           |                     |                 |               |                  |
|----------------------|-------------------|-----------|---------------------|-----------------|---------------|------------------|
| Well                 | #804H - Slot 804H |           |                     |                 |               |                  |
| Well Position        | +N/-S             | 0.00 usft | Northing:           | 527,878.40 usft | Latitude:     | 32° 26' 56.999 N |
|                      | +E/-W             | 0.00 usft | Easting:            | 762,229.20 usft | Longitude:    | 103° 37' 2.089 W |
| Position Uncertainty |                   | 0.00 usft | Wellhead Elevation: | usft            | Ground Level: | 3,816.00 usft    |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Aim MWD Surveys   |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | MVHD              | 6/11/2021          | 6.46                   | 60.18                | 47,903.29317806            |

|                          |                                |                     |                     |                      |      |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|------|
| <b>Design</b>            | Aim MWD Surveys                |                     |                     |                      |      |
| <b>Audit Notes:</b>      |                                |                     |                     |                      |      |
| <b>Version:</b>          | 1.0                            | <b>Phase:</b>       | ACTUAL              | <b>Tie On Depth:</b> | 0.00 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Direction (°)</b> |      |
|                          | 0.00                           | 0.00                | 0.00                | 359.58               |      |

|                       |                  |                                   |                  |                    |  |
|-----------------------|------------------|-----------------------------------|------------------|--------------------|--|
| <b>Survey Program</b> | <b>Date</b>      | 6/28/2021                         |                  |                    |  |
| <b>From (usft)</b>    | <b>To (usft)</b> | <b>Survey (Wellbore)</b>          | <b>Tool Name</b> | <b>Description</b> |  |
| 198.00                | 20,310.00        | Aim MWD Surveys (Aim MWD Surveys) | B001Mb_MWD+HRGM  | OWSG MWD + HRGM    |  |

|                              |                        |                    |                              |                     |                     |                                |                                |                               |                              |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|--------------------------------|-------------------------------|------------------------------|
| <b>Survey</b>                |                        |                    |                              |                     |                     |                                |                                |                               |                              |
| <b>Measured Depth (usft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Vertical Section (usft)</b> | <b>Dogleg Rate (°/100usft)</b> | <b>Build Rate (°/100usft)</b> | <b>Turn Rate (°/100usft)</b> |
| 0.00                         | 0.00                   | 0.00               | 0.00                         | 0.00                | 0.00                | 0.00                           | 0.00                           | 0.00                          | 0.00                         |
| 198.00                       | 0.53                   | 96.26              | 198.00                       | -0.10               | 0.91                | -0.11                          | 0.27                           | 0.27                          | 0.00                         |
| <b>First Aim MWD Survey</b>  |                        |                    |                              |                     |                     |                                |                                |                               |                              |
| 322.00                       | 0.79                   | 97.13              | 321.99                       | -0.27               | 2.33                | -0.29                          | 0.21                           | 0.21                          | 0.70                         |
| 415.00                       | 0.97                   | 97.66              | 414.98                       | -0.45               | 3.74                | -0.48                          | 0.19                           | 0.19                          | 0.57                         |
| 509.00                       | 1.01                   | 98.28              | 508.96                       | -0.68               | 5.35                | -0.72                          | 0.04                           | 0.04                          | 0.66                         |
| 602.00                       | 1.14                   | 86.94              | 601.95                       | -0.75               | 7.09                | -0.80                          | 0.27                           | 0.14                          | -12.19                       |
| 695.00                       | 1.41                   | 93.97              | 694.92                       | -0.78               | 9.15                | -0.84                          | 0.34                           | 0.29                          | 7.56                         |
| 789.00                       | 1.41                   | 86.85              | 788.90                       | -0.79               | 11.46               | -0.88                          | 0.19                           | 0.00                          | -7.57                        |
| 882.00                       | 1.54                   | 87.38              | 881.87                       | -0.67               | 13.85               | -0.77                          | 0.14                           | 0.14                          | 0.57                         |
| 975.00                       | 1.54                   | 91.33              | 974.83                       | -0.65               | 16.35               | -0.77                          | 0.11                           | 0.00                          | 4.25                         |

## Aim Directional Services, LLC

## Survey Report

|                  |                              |                                     |                                            |
|------------------|------------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | Advance Energy Partners, LLC | <b>Local Co-ordinate Reference:</b> | Well #804H - Slot 804H                     |
| <b>Project:</b>  | Lea County, New Mexico       | <b>TVD Reference:</b>               | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Site:</b>     | Dagger State Com 804H        | <b>MD Reference:</b>                | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Well:</b>     | #804H                        | <b>North Reference:</b>             | Grid                                       |
| <b>Wellbore:</b> | Aim MWD Surveys              | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Aim MWD Surveys              | <b>Database:</b>                    | EDM 5000.1 Aim Database                    |

| 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) |
| 1,068.00              | 1.32            | 90.89       | 1,067.80              | -0.69        | 18.67        | -0.83                   | 0.24                    | -0.24                  | -0.47                 |
| 1,162.00              | 1.05            | 90.72       | 1,161.78              | -0.72        | 20.61        | -0.87                   | 0.29                    | -0.29                  | -0.18                 |
| 1,255.00              | 0.57            | 108.47      | 1,254.77              | -0.88        | 21.91        | -1.04                   | 0.58                    | -0.52                  | 19.09                 |
| 1,345.00              | 0.48            | 155.32      | 1,344.77              | -1.36        | 22.49        | -1.52                   | 0.47                    | -0.10                  | 52.06                 |
| 1,434.00              | 0.62            | 169.73      | 1,433.77              | -2.17        | 22.73        | -2.34                   | 0.22                    | 0.16                   | 16.19                 |
| 1,515.00              | 0.75            | 167.01      | 1,514.76              | -3.12        | 22.93        | -3.29                   | 0.17                    | 0.16                   | -3.36                 |
| 1,640.00              | 0.57            | 166.04      | 1,639.75              | -4.52        | 23.26        | -4.69                   | 0.14                    | -0.14                  | -0.78                 |
| 1,735.00              | 1.01            | 150.84      | 1,734.74              | -5.71        | 23.78        | -5.89                   | 0.51                    | 0.46                   | -16.00                |
| 1,830.00              | 0.97            | 147.58      | 1,829.73              | -7.12        | 24.62        | -7.30                   | 0.07                    | -0.04                  | -3.43                 |
| 2,019.00              | 0.84            | 146.18      | 2,018.70              | -9.62        | 26.25        | -9.81                   | 0.07                    | -0.07                  | -0.74                 |
| 2,114.00              | 0.62            | 135.28      | 2,113.70              | -10.57       | 27.00        | -10.76                  | 0.27                    | -0.23                  | -11.47                |
| 2,209.00              | 0.53            | 119.99      | 2,208.69              | -11.15       | 27.74        | -11.35                  | 0.19                    | -0.09                  | -16.09                |
| 2,305.00              | 0.44            | 97.66       | 2,304.69              | -11.42       | 28.49        | -11.63                  | 0.22                    | -0.09                  | -23.26                |
| 2,401.00              | 0.66            | 68.04       | 2,400.68              | -11.26       | 29.37        | -11.48                  | 0.37                    | 0.23                   | -30.85                |
| 2,495.00              | 0.92            | 71.65       | 2,494.68              | -10.82       | 30.59        | -11.05                  | 0.28                    | 0.28                   | 3.84                  |
| 2,589.00              | 0.92            | 68.04       | 2,588.66              | -10.30       | 32.00        | -10.54                  | 0.06                    | 0.00                   | -3.84                 |
| 2,683.00              | 1.23            | 55.47       | 2,682.65              | -9.45        | 33.54        | -9.70                   | 0.41                    | 0.33                   | -13.37                |
| 2,777.00              | 1.36            | 56.97       | 2,776.62              | -8.27        | 35.30        | -8.53                   | 0.14                    | 0.14                   | 1.60                  |
| 2,873.00              | 1.19            | 123.06      | 2,872.60              | -8.19        | 37.09        | -8.46                   | 1.46                    | -0.18                  | 68.84                 |
| 2,967.00              | 1.54            | 132.99      | 2,966.58              | -9.59        | 38.83        | -9.87                   | 0.45                    | 0.37                   | 10.56                 |
| 3,060.00              | 1.58            | 126.23      | 3,059.54              | -11.20       | 40.78        | -11.50                  | 0.20                    | 0.04                   | -7.27                 |
| 3,152.00              | 0.35            | 95.64       | 3,151.53              | -11.97       | 42.09        | -12.28                  | 1.40                    | -1.34                  | -33.25                |
| 3,245.00              | 0.79            | 1.86        | 3,244.52              | -11.36       | 42.39        | -11.67                  | 0.95                    | 0.47                   | -100.84               |
| 3,339.00              | 0.97            | 24.36       | 3,338.51              | -9.99        | 42.74        | -10.30                  | 0.41                    | 0.19                   | 23.94                 |
| 3,432.00              | 1.19            | 46.69       | 3,431.50              | -8.61        | 43.77        | -8.93                   | 0.51                    | 0.24                   | 24.01                 |
| 3,525.00              | 1.27            | 37.11       | 3,524.48              | -7.12        | 45.09        | -7.46                   | 0.24                    | 0.09                   | -10.30                |
| 3,713.00              | 1.36            | 359.75      | 3,712.43              | -3.23        | 46.34        | -3.57                   | 0.45                    | 0.05                   | -19.87                |
| 3,809.00              | 1.32            | 30.34       | 3,808.41              | -1.14        | 46.89        | -1.48                   | 0.74                    | -0.04                  | 31.86                 |
| 3,902.00              | 1.23            | 26.03       | 3,901.38              | 0.68         | 47.87        | 0.33                    | 0.14                    | -0.10                  | -4.63                 |
| 4,088.00              | 1.45            | 20.41       | 4,087.33              | 4.68         | 49.57        | 4.32                    | 0.14                    | 0.12                   | -3.02                 |
| 4,274.00              | 1.63            | 182.21      | 4,273.31              | 4.24         | 50.29        | 3.88                    | 1.64                    | 0.10                   | 86.99                 |
| 4,369.00              | 1.63            | 184.85      | 4,368.27              | 1.55         | 50.12        | 1.18                    | 0.08                    | 0.00                   | 2.78                  |
| 4,557.00              | 1.80            | 176.24      | 4,556.19              | -4.06        | 50.09        | -4.43                   | 0.16                    | 0.09                   | -4.58                 |
| 4,652.00              | 1.98            | 175.53      | 4,651.13              | -7.19        | 50.31        | -7.56                   | 0.19                    | 0.19                   | -0.75                 |
| 4,746.00              | 1.85            | 182.92      | 4,745.08              | -10.32       | 50.36        | -10.69                  | 0.30                    | -0.14                  | 7.86                  |
| 4,839.00              | 1.93            | 180.37      | 4,838.03              | -13.39       | 50.28        | -13.76                  | 0.12                    | 0.09                   | -2.74                 |
| 4,934.00              | 1.63            | 178.79      | 4,932.98              | -16.34       | 50.29        | -16.71                  | 0.32                    | -0.32                  | -1.66                 |
| 5,029.00              | 1.76            | 171.23      | 5,027.94              | -19.13       | 50.54        | -19.50                  | 0.27                    | 0.14                   | -7.96                 |
| 5,123.00              | 1.71            | 171.23      | 5,121.90              | -21.94       | 50.98        | -22.32                  | 0.05                    | -0.05                  | 0.00                  |
| 5,218.00              | 1.80            | 180.98      | 5,216.86              | -24.84       | 51.17        | -25.21                  | 0.33                    | 0.09                   | 10.26                 |
| 5,312.00              | 1.89            | 140.38      | 5,310.81              | -27.51       | 52.13        | -27.89                  | 1.36                    | 0.10                   | -43.19                |
| 5,407.00              | 2.24            | 127.81      | 5,405.75              | -29.85       | 54.60        | -30.25                  | 0.60                    | 0.37                   | -13.23                |
| 5,500.00              | 2.02            | 123.85      | 5,498.69              | -31.88       | 57.40        | -32.30                  | 0.28                    | -0.24                  | -4.26                 |

## Aim Directional Services, LLC

## Survey Report

|                  |                              |                                     |                                            |
|------------------|------------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | Advance Energy Partners, LLC | <b>Local Co-ordinate Reference:</b> | Well #804H - Slot 804H                     |
| <b>Project:</b>  | Lea County, New Mexico       | <b>TVD Reference:</b>               | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Site:</b>     | Dagger State Com 804H        | <b>MD Reference:</b>                | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Well:</b>     | #804H                        | <b>North Reference:</b>             | Grid                                       |
| <b>Wellbore:</b> | Aim MWD Surveys              | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Aim MWD Surveys              | <b>Database:</b>                    | EDM 5000.1 Aim Database                    |

| 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) |
| 5,594.00              | 1.54            | 117.44      | 5,592.64              | -33.38       | 59.89        | -33.82                  | 0.55                    | -0.51                  | -6.82                 |
| 5,689.00              | 1.67            | 95.29       | 5,687.60              | -34.10       | 62.40        | -34.56                  | 0.66                    | 0.14                   | -23.32                |
| 5,784.00              | 2.68            | 90.28       | 5,782.53              | -34.24       | 66.00        | -34.72                  | 1.08                    | 1.06                   | -5.27                 |
| 5,878.00              | 3.47            | 93.09       | 5,876.40              | -34.40       | 71.04        | -34.92                  | 0.86                    | 0.84                   | 2.99                  |
| 5,973.00              | 5.05            | 92.74       | 5,971.13              | -34.76       | 78.09        | -35.33                  | 1.66                    | 1.66                   | -0.37                 |
| 6,068.00              | 5.41            | 95.29       | 6,065.74              | -35.37       | 86.72        | -36.00                  | 0.45                    | 0.38                   | 2.68                  |
| 6,162.00              | 5.27            | 97.05       | 6,159.33              | -36.31       | 95.42        | -37.01                  | 0.23                    | -0.15                  | 1.87                  |
| 6,257.00              | 5.49            | 105.22      | 6,253.91              | -38.04       | 104.14       | -38.80                  | 0.84                    | 0.23                   | 8.60                  |
| 6,352.00              | 5.41            | 105.66      | 6,348.48              | -40.44       | 112.83       | -41.26                  | 0.10                    | -0.08                  | 0.46                  |
| 6,446.00              | 5.32            | 104.43      | 6,442.07              | -42.72       | 121.32       | -43.61                  | 0.16                    | -0.10                  | -1.31                 |
| 6,541.00              | 5.01            | 103.90      | 6,536.68              | -44.81       | 129.61       | -45.76                  | 0.33                    | -0.33                  | -0.56                 |
| 6,636.00              | 4.88            | 102.50      | 6,631.33              | -46.69       | 137.58       | -47.69                  | 0.19                    | -0.14                  | -1.47                 |
| 6,732.00              | 4.88            | 109.97      | 6,726.98              | -48.96       | 145.41       | -50.03                  | 0.66                    | 0.00                   | 7.78                  |
| 6,826.00              | 4.97            | 114.19      | 6,820.64              | -52.00       | 152.88       | -53.12                  | 0.40                    | 0.10                   | 4.49                  |
| 6,920.00              | 4.84            | 112.34      | 6,914.29              | -55.17       | 160.26       | -56.35                  | 0.22                    | -0.14                  | -1.97                 |
| 7,015.00              | 4.75            | 120.95      | 7,008.96              | -58.72       | 167.34       | -59.94                  | 0.76                    | -0.09                  | 9.06                  |
| 7,110.00              | 4.53            | 127.37      | 7,103.65              | -63.02       | 173.70       | -64.29                  | 0.59                    | -0.23                  | 6.76                  |
| 7,205.00              | 4.48            | 129.21      | 7,198.36              | -67.64       | 179.55       | -68.96                  | 0.16                    | -0.05                  | 1.94                  |
| 7,300.00              | 4.22            | 128.69      | 7,293.08              | -72.17       | 185.16       | -73.53                  | 0.28                    | -0.27                  | -0.55                 |
| 7,395.00              | 3.91            | 127.81      | 7,387.84              | -76.34       | 190.44       | -77.74                  | 0.33                    | -0.33                  | -0.93                 |
| 7,489.00              | 3.87            | 128.42      | 7,481.63              | -80.28       | 195.46       | -81.71                  | 0.06                    | -0.04                  | 0.65                  |
| 7,584.00              | 3.60            | 130.01      | 7,576.43              | -84.19       | 200.26       | -85.65                  | 0.30                    | -0.28                  | 1.67                  |
| 7,679.00              | 3.52            | 125.26      | 7,671.24              | -87.79       | 204.92       | -89.29                  | 0.32                    | -0.08                  | -5.00                 |
| 7,773.00              | 3.12            | 125.00      | 7,765.09              | -90.92       | 209.38       | -92.46                  | 0.43                    | -0.43                  | -0.28                 |
| 7,868.00              | 3.87            | 119.20      | 7,859.91              | -93.97       | 214.29       | -95.54                  | 0.87                    | 0.79                   | -6.11                 |
| 7,963.00              | 4.31            | 119.28      | 7,954.67              | -97.28       | 220.20       | -98.89                  | 0.46                    | 0.46                   | 0.08                  |
| 8,058.00              | 4.26            | 119.63      | 8,049.40              | -100.77      | 226.39       | -102.43                 | 0.06                    | -0.05                  | 0.37                  |
| 8,153.00              | 4.40            | 121.92      | 8,144.13              | -104.44      | 232.55       | -106.14                 | 0.23                    | 0.15                   | 2.41                  |
| 8,248.00              | 4.18            | 123.59      | 8,238.86              | -108.28      | 238.52       | -110.03                 | 0.27                    | -0.23                  | 1.76                  |
| 8,343.00              | 4.04            | 120.60      | 8,333.62              | -111.90      | 244.29       | -113.69                 | 0.27                    | -0.15                  | -3.15                 |
| 8,437.00              | 3.96            | 124.91      | 8,427.39              | -115.45      | 249.80       | -117.27                 | 0.33                    | -0.09                  | 4.59                  |
| 8,532.00              | 3.78            | 126.14      | 8,522.17              | -119.17      | 255.02       | -121.04                 | 0.21                    | -0.19                  | 1.29                  |
| 8,626.00              | 3.38            | 131.24      | 8,615.99              | -122.82      | 259.60       | -124.72                 | 0.54                    | -0.43                  | 5.43                  |
| 8,722.00              | 3.47            | 134.05      | 8,711.82              | -126.71      | 263.82       | -128.64                 | 0.20                    | 0.09                   | 2.93                  |
| 8,817.00              | 3.82            | 130.97      | 8,806.63              | -130.78      | 268.28       | -132.75                 | 0.42                    | 0.37                   | -3.24                 |
| 8,911.00              | 4.00            | 129.30      | 8,900.41              | -134.91      | 273.18       | -136.91                 | 0.23                    | 0.19                   | -1.78                 |
| 9,005.00              | 3.60            | 127.98      | 8,994.20              | -138.81      | 278.04       | -140.84                 | 0.44                    | -0.43                  | -1.40                 |
| 9,100.00              | 3.56            | 131.50      | 9,089.02              | -142.60      | 282.60       | -144.66                 | 0.24                    | -0.04                  | 3.71                  |
| 9,194.00              | 3.25            | 120.69      | 9,182.85              | -145.89      | 287.08       | -147.99                 | 0.76                    | -0.33                  | -11.50                |
| 9,289.00              | 4.09            | 125.17      | 9,277.65              | -149.22      | 292.16       | -151.35                 | 0.93                    | 0.88                   | 4.72                  |
| 9,384.00              | 4.31            | 124.38      | 9,372.40              | -153.18      | 297.88       | -155.36                 | 0.24                    | 0.23                   | -0.83                 |
| 9,478.00              | 3.43            | 123.77      | 9,466.18              | -156.74      | 303.13       | -158.96                 | 0.94                    | -0.94                  | -0.65                 |
| 9,573.00              | 3.16            | 120.60      | 9,561.03              | -159.65      | 307.75       | -161.90                 | 0.34                    | -0.28                  | -3.34                 |

## Aim Directional Services, LLC

## Survey Report

|                  |                              |                                     |                                            |
|------------------|------------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | Advance Energy Partners, LLC | <b>Local Co-ordinate Reference:</b> | Well #804H - Slot 804H                     |
| <b>Project:</b>  | Lea County, New Mexico       | <b>TVD Reference:</b>               | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Site:</b>     | Dagger State Com 804H        | <b>MD Reference:</b>                | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Well:</b>     | #804H                        | <b>North Reference:</b>             | Grid                                       |
| <b>Wellbore:</b> | Aim MWD Surveys              | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Aim MWD Surveys              | <b>Database:</b>                    | EDM 5000.1 Aim Database                    |

| 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) |
| 9,666.00              | 2.73            | 118.76      | 9,653.90              | -162.02      | 311.90       | -164.31                 | 0.47                    | -0.46                  | -1.98                 |
| 9,760.00              | 3.60            | 126.58      | 9,747.76              | -164.86      | 316.23       | -167.17                 | 1.03                    | 0.93                   | 8.32                  |
| 9,855.00              | 3.38            | 135.72      | 9,842.59              | -168.64      | 320.58       | -170.99                 | 0.63                    | -0.23                  | 9.62                  |
| 9,951.00              | 2.99            | 131.68      | 9,938.44              | -172.33      | 324.42       | -174.71                 | 0.47                    | -0.41                  | -4.21                 |
| 10,046.00             | 3.56            | 132.47      | 10,033.28             | -175.97      | 328.45       | -178.37                 | 0.60                    | 0.60                   | 0.83                  |
| 10,141.00             | 3.78            | 132.20      | 10,128.09             | -180.07      | 332.95       | -182.50                 | 0.23                    | 0.23                   | -0.28                 |
| 10,236.00             | 3.52            | 135.28      | 10,222.89             | -184.24      | 337.32       | -186.71                 | 0.34                    | -0.27                  | 3.24                  |
| 10,329.00             | 3.25            | 131.59      | 10,315.73             | -188.02      | 341.30       | -190.52                 | 0.37                    | -0.29                  | -3.97                 |
| 10,424.00             | 2.81            | 134.66      | 10,410.60             | -191.45      | 344.97       | -193.97                 | 0.49                    | -0.46                  | 3.23                  |
| 10,519.00             | 2.55            | 139.94      | 10,505.49             | -194.70      | 347.98       | -197.25                 | 0.38                    | -0.27                  | 5.56                  |
| 10,577.00             | 2.51            | 141.78      | 10,563.44             | -196.69      | 349.60       | -199.24                 | 0.16                    | -0.07                  | 3.17                  |
| 10,680.00             | 2.46            | 151.28      | 10,666.34             | -200.40      | 352.06       | -202.97                 | 0.40                    | -0.05                  | 9.22                  |
| 10,775.00             | 2.51            | 153.12      | 10,761.25             | -204.04      | 353.98       | -206.63                 | 0.10                    | 0.05                   | 1.94                  |
| 10,868.00             | 2.95            | 143.63      | 10,854.15             | -207.78      | 356.32       | -210.39                 | 0.68                    | 0.47                   | -10.20                |
| 10,963.00             | 3.38            | 136.07      | 10,949.00             | -211.77      | 359.71       | -214.40                 | 0.63                    | 0.45                   | -7.96                 |
| 11,058.00             | 3.52            | 136.86      | 11,043.83             | -215.91      | 363.65       | -218.57                 | 0.16                    | 0.15                   | 0.83                  |
| 11,153.00             | 2.20            | 129.74      | 11,138.71             | -219.21      | 367.04       | -221.89                 | 1.44                    | -1.39                  | -7.49                 |
| 11,247.00             | 1.49            | 113.83      | 11,232.66             | -220.85      | 369.55       | -223.56                 | 0.92                    | -0.76                  | -16.93                |
| 11,342.00             | 2.42            | 110.49      | 11,327.60             | -222.05      | 372.56       | -224.78                 | 0.99                    | 0.98                   | -3.52                 |
| 11,436.00             | 2.90            | 110.14      | 11,421.50             | -223.57      | 376.65       | -226.32                 | 0.51                    | 0.51                   | -0.37                 |
| 11,531.00             | 2.81            | 117.96      | 11,516.39             | -225.49      | 380.96       | -228.27                 | 0.42                    | -0.09                  | 8.23                  |
| 11,596.00             | 2.90            | 121.30      | 11,581.31             | -227.09      | 383.78       | -229.90                 | 0.29                    | 0.14                   | 5.14                  |
| 11,625.00             | 2.81            | 130.88      | 11,610.27             | -227.94      | 384.94       | -230.75                 | 1.67                    | -0.31                  | 33.03                 |
| 11,719.00             | 8.92            | 0.28        | 11,703.93             | -222.14      | 386.72       | -224.97                 | 11.66                   | 6.50                   | -138.94               |
| 11,814.00             | 23.96           | 2.48        | 11,794.79             | -195.35      | 387.60       | -198.18                 | 15.84                   | 15.83                  | 2.32                  |
| 11,908.00             | 35.21           | 1.25        | 11,876.40             | -149.04      | 389.02       | -151.88                 | 11.98                   | 11.97                  | -1.31                 |
| 12,003.00             | 45.63           | 358.87      | 11,948.63             | -87.53       | 388.95       | -90.38                  | 11.09                   | 10.97                  | -2.51                 |
| 12,097.00             | 53.49           | 3.09        | 12,009.57             | -16.09       | 390.32       | -18.95                  | 9.03                    | 8.36                   | 4.49                  |
| 12,192.00             | 62.02           | 2.74        | 12,060.21             | 64.08        | 394.39       | 61.19                   | 8.98                    | 8.98                   | -0.37                 |
| 12,283.00             | 62.86           | 1.77        | 12,102.31             | 144.69       | 397.57       | 141.77                  | 1.32                    | 0.92                   | -1.07                 |
| 12,378.00             | 74.15           | 0.37        | 12,137.07             | 232.92       | 399.17       | 229.99                  | 11.96                   | 11.88                  | -1.47                 |
| 12,473.00             | 86.77           | 0.54        | 12,152.78             | 326.42       | 399.92       | 323.48                  | 13.29                   | 13.28                  | 0.18                  |
| 12,506.00             | 89.49           | 359.84      | 12,153.86             | 359.39       | 400.03       | 356.45                  | 8.51                    | 8.24                   | -2.12                 |
| 12,536.00             | 89.32           | 359.22      | 12,154.17             | 389.39       | 399.78       | 386.45                  | 2.14                    | -0.57                  | -2.07                 |
| 12,632.00             | 89.63           | 357.38      | 12,155.05             | 485.34       | 396.93       | 482.42                  | 1.94                    | 0.32                   | -1.92                 |
| 12,726.00             | 93.27           | 0.10        | 12,152.67             | 579.26       | 394.87       | 576.35                  | 4.83                    | 3.87                   | 2.89                  |
| 12,821.00             | 93.67           | 1.77        | 12,146.92             | 674.07       | 396.41       | 671.15                  | 1.80                    | 0.42                   | 1.76                  |
| 12,916.00             | 89.76           | 2.39        | 12,144.08             | 768.95       | 399.86       | 766.00                  | 4.17                    | -4.12                  | 0.65                  |
| 13,011.00             | 90.81           | 2.65        | 12,143.61             | 863.85       | 404.04       | 860.87                  | 1.14                    | 1.11                   | 0.27                  |
| 13,106.00             | 92.79           | 2.12        | 12,140.62             | 958.72       | 407.99       | 955.70                  | 2.16                    | 2.08                   | -0.56                 |
| 13,199.00             | 90.90           | 2.65        | 12,137.63             | 1,051.59     | 411.86       | 1,048.54                | 2.11                    | -2.03                  | 0.57                  |
| 13,294.00             | 88.00           | 2.12        | 12,138.54             | 1,146.49     | 415.81       | 1,143.41                | 3.10                    | -3.05                  | -0.56                 |
| 13,389.00             | 87.96           | 359.66      | 12,141.89             | 1,241.41     | 417.28       | 1,238.32                | 2.59                    | -0.04                  | -2.59                 |
| 13,484.00             | 90.02           | 0.02        | 12,143.56             | 1,336.39     | 417.02       | 1,333.30                | 2.20                    | 2.17                   | 0.38                  |

## Aim Directional Services, LLC

## Survey Report

|                  |                              |                                     |                                            |
|------------------|------------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | Advance Energy Partners, LLC | <b>Local Co-ordinate Reference:</b> | Well #804H - Slot 804H                     |
| <b>Project:</b>  | Lea County, New Mexico       | <b>TVD Reference:</b>               | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Site:</b>     | Dagger State Com 804H        | <b>MD Reference:</b>                | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Well:</b>     | #804H                        | <b>North Reference:</b>             | Grid                                       |
| <b>Wellbore:</b> | Aim MWD Surveys              | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Aim MWD Surveys              | <b>Database:</b>                    | EDM 5000.1 Aim Database                    |

| 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) |
| 13,579.00             | 91.91           | 0.02        | 12,141.96             | 1,431.37     | 417.05       | 1,428.28                | 1.99                    | 1.99                   | 0.00                  |
| 13,673.00             | 93.85           | 358.79      | 12,137.24             | 1,525.24     | 416.08       | 1,522.15                | 2.44                    | 2.06                   | -1.31                 |
| 13,768.00             | 94.86           | 358.43      | 12,130.03             | 1,619.94     | 413.78       | 1,616.86                | 1.13                    | 1.06                   | -0.38                 |
| 13,863.00             | 93.05           | 358.79      | 12,123.47             | 1,714.68     | 411.48       | 1,711.62                | 1.94                    | -1.91                  | 0.38                  |
| 13,957.00             | 94.81           | 357.91      | 12,117.03             | 1,808.42     | 408.78       | 1,805.37                | 2.09                    | 1.87                   | -0.94                 |
| 14,052.00             | 90.24           | 358.96      | 12,112.85             | 1,903.26     | 406.19       | 1,900.24                | 4.94                    | -4.81                  | 1.11                  |
| 14,147.00             | 88.92           | 359.31      | 12,113.54             | 1,998.25     | 404.76       | 1,995.23                | 1.44                    | -1.39                  | 0.37                  |
| 14,242.00             | 91.21           | 1.16        | 12,113.44             | 2,093.24     | 405.15       | 2,090.21                | 3.10                    | 2.41                   | 1.95                  |
| 14,337.00             | 91.52           | 0.10        | 12,111.17             | 2,188.20     | 406.19       | 2,185.17                | 1.16                    | 0.33                   | -1.12                 |
| 14,431.00             | 92.62           | 358.87      | 12,107.78             | 2,282.13     | 405.35       | 2,279.10                | 1.75                    | 1.17                   | -1.31                 |
| 14,526.00             | 94.73           | 359.58      | 12,101.69             | 2,376.92     | 404.06       | 2,373.90                | 2.34                    | 2.22                   | 0.75                  |
| 14,621.00             | 92.04           | 0.63        | 12,096.08             | 2,471.75     | 404.24       | 2,468.72                | 3.04                    | -2.83                  | 1.11                  |
| 14,717.00             | 89.85           | 1.69        | 12,094.50             | 2,567.71     | 406.18       | 2,564.66                | 2.53                    | -2.28                  | 1.10                  |
| 14,811.00             | 90.42           | 0.02        | 12,094.28             | 2,661.69     | 407.59       | 2,658.63                | 1.88                    | 0.61                   | -1.78                 |
| 14,907.00             | 91.03           | 356.68      | 12,093.06             | 2,757.63     | 404.82       | 2,754.59                | 3.54                    | 0.64                   | -3.48                 |
| 15,002.00             | 92.40           | 357.47      | 12,090.22             | 2,852.46     | 399.98       | 2,849.45                | 1.66                    | 1.44                   | 0.83                  |
| 15,098.00             | 93.98           | 356.50      | 12,084.88             | 2,948.18     | 394.94       | 2,945.20                | 1.93                    | 1.65                   | -1.01                 |
| 15,190.00             | 93.36           | 357.47      | 12,078.99             | 3,039.86     | 390.11       | 3,036.92                | 1.25                    | -0.67                  | 1.05                  |
| 15,284.00             | 93.98           | 357.91      | 12,072.97             | 3,133.59     | 386.33       | 3,130.67                | 0.81                    | 0.66                   | 0.47                  |
| 15,379.00             | 92.48           | 0.02        | 12,067.62             | 3,228.42     | 384.61       | 3,225.51                | 2.72                    | -1.58                  | 2.22                  |
| 15,472.00             | 92.09           | 1.33        | 12,063.91             | 3,321.33     | 385.71       | 3,318.42                | 1.47                    | -0.42                  | 1.41                  |
| 15,565.00             | 93.23           | 2.04        | 12,059.59             | 3,414.19     | 388.44       | 3,411.25                | 1.44                    | 1.23                   | 0.76                  |
| 15,658.00             | 91.69           | 1.33        | 12,055.60             | 3,507.06     | 391.17       | 3,504.10                | 1.82                    | -1.66                  | -0.76                 |
| 15,751.00             | 92.13           | 1.60        | 12,052.50             | 3,599.98     | 393.55       | 3,597.00                | 0.56                    | 0.47                   | 0.29                  |
| 15,842.00             | 89.98           | 2.21        | 12,050.83             | 3,690.91     | 396.57       | 3,687.90                | 2.46                    | -2.36                  | 0.67                  |
| 15,934.00             | 90.59           | 2.04        | 12,050.37             | 3,782.84     | 399.98       | 3,779.81                | 0.69                    | 0.66                   | -0.18                 |
| 16,028.00             | 92.04           | 1.42        | 12,048.21             | 3,876.77     | 402.82       | 3,873.72                | 1.68                    | 1.54                   | -0.66                 |
| 16,123.00             | 89.19           | 1.25        | 12,047.19             | 3,971.73     | 405.03       | 3,968.66                | 3.01                    | -3.00                  | -0.18                 |
| 16,216.00             | 87.30           | 0.10        | 12,050.04             | 4,064.68     | 406.13       | 4,061.59                | 2.38                    | -2.03                  | -1.24                 |
| 16,311.00             | 88.22           | 0.10        | 12,053.75             | 4,159.60     | 406.29       | 4,156.51                | 0.97                    | 0.97                   | 0.00                  |
| 16,405.00             | 90.02           | 359.66      | 12,055.20             | 4,253.59     | 406.10       | 4,250.50                | 1.97                    | 1.91                   | -0.47                 |
| 16,499.00             | 91.78           | 359.66      | 12,053.72             | 4,347.57     | 405.54       | 4,344.48                | 1.87                    | 1.87                   | 0.00                  |
| 16,594.00             | 90.24           | 359.05      | 12,052.04             | 4,442.55     | 404.47       | 4,439.46                | 1.74                    | -1.62                  | -0.64                 |
| 16,688.00             | 90.07           | 358.96      | 12,051.79             | 4,536.53     | 402.84       | 4,533.46                | 0.20                    | -0.18                  | -0.10                 |
| 16,782.00             | 90.86           | 358.08      | 12,051.03             | 4,630.49     | 400.41       | 4,627.44                | 1.26                    | 0.84                   | -0.94                 |
| 16,877.00             | 89.80           | 358.70      | 12,050.48             | 4,725.45     | 397.74       | 4,722.41                | 1.29                    | -1.12                  | 0.65                  |
| 16,972.00             | 89.14           | 358.43      | 12,051.36             | 4,820.42     | 395.36       | 4,817.39                | 0.75                    | -0.69                  | -0.28                 |
| 17,067.00             | 88.00           | 357.64      | 12,053.73             | 4,915.33     | 392.11       | 4,912.33                | 1.46                    | -1.20                  | -0.83                 |
| 17,161.00             | 87.30           | 356.85      | 12,057.58             | 5,009.14     | 387.59       | 5,006.17                | 1.12                    | -0.74                  | -0.84                 |
| 17,254.00             | 87.52           | 358.52      | 12,061.79             | 5,101.97     | 383.84       | 5,099.02                | 1.81                    | 0.24                   | 1.80                  |
| 17,350.00             | 89.05           | 359.84      | 12,064.66             | 5,197.91     | 382.47       | 5,194.97                | 2.10                    | 1.59                   | 1.38                  |
| 17,443.00             | 91.56           | 0.10        | 12,064.17             | 5,290.90     | 382.42       | 5,287.96                | 2.71                    | 2.70                   | 0.28                  |
| 17,537.00             | 94.86           | 359.58      | 12,058.90             | 5,384.74     | 382.16       | 5,381.79                | 3.55                    | 3.51                   | -0.55                 |

## Aim Directional Services, LLC

## Survey Report

|                  |                              |                                     |                                            |
|------------------|------------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | Advance Energy Partners, LLC | <b>Local Co-ordinate Reference:</b> | Well #804H - Slot 804H                     |
| <b>Project:</b>  | Lea County, New Mexico       | <b>TVD Reference:</b>               | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Site:</b>     | Dagger State Com 804H        | <b>MD Reference:</b>                | 3816'GL+32.5'KB @ 3848.50usft (Nabors X50) |
| <b>Well:</b>     | #804H                        | <b>North Reference:</b>             | Grid                                       |
| <b>Wellbore:</b> | Aim MWD Surveys              | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | Aim MWD Surveys              | <b>Database:</b>                    | EDM 5000.1 Aim Database                    |

| 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) |
| 17,632.00             | 93.10           | 356.06      | 12,052.31             | 5,479.42     | 378.55       | 5,476.50                | 4.13                    | -1.85                  | -3.71                 |
| 17,727.00             | 89.32           | 354.13      | 12,050.30             | 5,574.03     | 370.43       | 5,571.17                | 4.47                    | -3.98                  | -2.03                 |
| 17,823.00             | 87.78           | 357.38      | 12,052.73             | 5,669.72     | 363.33       | 5,666.91                | 3.75                    | -1.60                  | 3.39                  |
| 17,919.00             | 89.05           | 357.20      | 12,055.39             | 5,765.58     | 358.79       | 5,762.79                | 1.34                    | 1.32                   | -0.19                 |
| 18,014.00             | 90.42           | 2.48        | 12,055.83             | 5,860.54     | 358.52       | 5,857.75                | 5.74                    | 1.44                   | 5.56                  |
| 18,110.00             | 93.80           | 2.74        | 12,052.29             | 5,956.36     | 362.89       | 5,953.54                | 3.53                    | 3.52                   | 0.27                  |
| 18,205.00             | 92.31           | 358.79      | 12,047.23             | 6,051.20     | 364.16       | 6,048.36                | 4.44                    | -1.57                  | -4.16                 |
| 18,301.00             | 90.46           | 358.87      | 12,044.91             | 6,147.14     | 362.20       | 6,144.32                | 1.93                    | -1.93                  | 0.08                  |
| 18,395.00             | 88.26           | 359.31      | 12,045.96             | 6,241.12     | 360.70       | 6,238.31                | 2.39                    | -2.34                  | 0.47                  |
| 18,491.00             | 86.77           | 357.91      | 12,050.12             | 6,337.00     | 358.38       | 6,334.20                | 2.13                    | -1.55                  | -1.46                 |
| 18,585.00             | 88.04           | 356.59      | 12,054.37             | 6,430.79     | 353.87       | 6,428.02                | 1.95                    | 1.35                   | -1.40                 |
| 18,681.00             | 87.38           | 359.31      | 12,058.21             | 6,526.64     | 350.44       | 6,523.90                | 2.91                    | -0.69                  | 2.83                  |
| 18,774.00             | 87.43           | 359.66      | 12,062.42             | 6,619.54     | 349.61       | 6,616.80                | 0.38                    | 0.05                   | 0.38                  |
| 18,870.00             | 89.41           | 0.19        | 12,065.07             | 6,715.50     | 349.48       | 6,712.76                | 2.14                    | 2.06                   | 0.55                  |
| 18,966.00             | 90.64           | 0.81        | 12,065.03             | 6,811.49     | 350.32       | 6,808.74                | 1.43                    | 1.28                   | 0.65                  |
| 19,060.00             | 92.13           | 3.09        | 12,062.75             | 6,905.40     | 353.51       | 6,902.63                | 2.90                    | 1.59                   | 2.43                  |
| 19,154.00             | 92.57           | 1.07        | 12,058.90             | 6,999.26     | 356.92       | 6,996.45                | 2.20                    | 0.47                   | -2.15                 |
| 19,249.00             | 90.07           | 358.87      | 12,056.71             | 7,094.22     | 356.87       | 7,091.41                | 3.50                    | -2.63                  | -2.32                 |
| 19,343.00             | 92.75           | 1.25        | 12,054.40             | 7,188.17     | 356.97       | 7,185.37                | 3.81                    | 2.85                   | 2.53                  |
| 19,438.00             | 93.63           | 358.87      | 12,049.11             | 7,283.02     | 357.07       | 7,280.21                | 2.67                    | 0.93                   | -2.51                 |
| 19,533.00             | 89.10           | 355.71      | 12,046.85             | 7,377.85     | 352.58       | 7,375.07                | 5.81                    | -4.77                  | -3.33                 |
| 19,628.00             | 86.81           | 357.47      | 12,050.24             | 7,472.61     | 346.93       | 7,469.87                | 3.04                    | -2.41                  | 1.85                  |
| 19,722.00             | 87.82           | 0.45        | 12,054.64             | 7,566.48     | 345.23       | 7,563.75                | 3.34                    | 1.07                   | 3.17                  |
| 19,817.00             | 90.07           | 1.25        | 12,056.39             | 7,661.45     | 346.64       | 7,658.70                | 2.51                    | 2.37                   | 0.84                  |
| 19,912.00             | 93.93           | 359.66      | 12,053.08             | 7,756.37     | 347.39       | 7,753.61                | 4.39                    | 4.06                   | -1.67                 |
| 20,006.00             | 96.57           | 357.82      | 12,044.48             | 7,849.94     | 345.34       | 7,847.19                | 3.42                    | 2.81                   | -1.96                 |
| 20,100.00             | 95.34           | 359.14      | 12,034.72             | 7,943.39     | 342.86       | 7,940.67                | 1.91                    | -1.31                  | 1.40                  |
| 20,193.00             | 94.42           | 359.40      | 12,026.81             | 8,036.05     | 341.68       | 8,033.33                | 1.03                    | -0.99                  | 0.28                  |
| Last Aim MWD Survey   |                 |             |                       |              |              |                         |                         |                        |                       |
| 20,310.00             | 94.42           | 359.40      | 12,017.79             | 8,152.69     | 340.46       | 8,149.98                | 0.00                    | 0.00                   | 0.00                  |
| Projection to BHL     |                 |             |                       |              |              |                         |                         |                        |                       |

| Design Annotations    |                       |                   |              |                      |
|-----------------------|-----------------------|-------------------|--------------|----------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment              |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                      |
| 198.00                | 198.00                | -0.10             | 0.91         | First Aim MWD Survey |
| 20,193.00             | 12,026.81             | 8,036.05          | 341.68       | Last Aim MWD Survey  |
| 20,310.00             | 12,017.79             | 8,152.69          | 340.46       | Projection to BHL    |



# BHA Reports

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## Dagger State Com 804H (WT-21-069)

2021-06-01 to 2021-07-02

Lea, New Mexico, US (32.45, -103.62)

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|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

**BHA #1 - BHA #1 - 14.75" Surface (Directional)**

| Motor Details                   |             | Date/Depth/Distances                                                                                                                                 |                  | Hours                      |                |
|---------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------------|----------------|
| Size(in)                        | 8.00        | Date In                                                                                                                                              | 2021-06-10 21:50 | Downhole Hours             | 12.42          |
| Lobe/Stage                      | 7/8, 5.9    | Depth In (ft)                                                                                                                                        | 120.00           | Drilling/Circulating Hours | 6.12           |
| Bend Angle                      | 1.75        | Date Out                                                                                                                                             | 2021-06-11 10:15 | Drilling Hours             | 5.08           |
| Speed (rev/gal)                 | 0.15        | Depth Out (ft)                                                                                                                                       | 1585.00          | Circulating Hours          | 1.03           |
| Wear Pad OD (in)                | 8.250       | Distance Slid (ft)                                                                                                                                   | 0.00             | Sliding Hours              | 0.00           |
| Incident                        | No          | Distance Rotated (ft)                                                                                                                                | 1465.00          | Rotating Hours             | 5.08           |
| Motor Post Run/Notes            |             | % Distance Sliding                                                                                                                                   | 0.00%            | % Hours Sliding            | 0.00%          |
| Average Total ROP (ft/h)        | 288.20      | % Distance Rotating                                                                                                                                  | 100.00%          | % Hours Rotating           | 100.00%        |
| Average Slide ROP (ft/h)        | 0.00        | BHA Objective                                                                                                                                        |                  |                            |                |
| Average Rotating ROP (ft/h)     | 288.20      | Drill 14.75" Surface section                                                                                                                         |                  |                            |                |
| Notes: N/A                      |             |                                                                                                                                                      |                  |                            |                |
| Bit Details                     |             |                                                                                                                                                      |                  |                            |                |
| OD (in)                         | 14.750      | POOH Reason/Notes                                                                                                                                    |                  |                            |                |
| Vendor                          | REED        |                                                                                                                                                      |                  |                            |                |
| Nozzles                         | 6x16's      |                                                                                                                                                      |                  |                            |                |
| Total Flow Area (in²)           | 1.178       | Total Depth/Casing Point                                                                                                                             |                  |                            |                |
| Bit Distances                   |             |                                                                                                                                                      |                  |                            |                |
| Bit To Survey: 70.00 ft         |             |                                                                                                                                                      |                  |                            |                |
| Bit Post Run/Notes              |             | Incident Notes                                                                                                                                       |                  |                            |                |
| Dull Grading                    |             | Directional:                                                                                                                                         |                  |                            |                |
| Notes: Chipped Cutters on Gauge |             | MWD:                                                                                                                                                 |                  |                            |                |
| MWD                             |             | Comments                                                                                                                                             |                  |                            |                |
| Max Downhole Temp (°F)          |             | Directional: 8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 12" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 3 Runs |                  |                            |                |
| Mud Properties                  |             | Parameters                                                                                                                                           |                  |                            |                |
| Type                            | Water Based | Flow Rate (gpm)                                                                                                                                      | 500.00 - 800.00  | Motor RPM                  | 40.00 - 160.00 |
| WT                              | 8.70        | On Bottom Pressure (psi)                                                                                                                             | 750.00 - 1450.00 | Surface RPM                | 40.00 - 40.00  |
| VIS                             | 28.00       | Off Bottom Pressure (psi)                                                                                                                            | 450.00 - 1000.00 | Rotating WOB (klbs)        | 2.00 - 17.00   |
| PV                              | 1.00        | Stall Pressure (psi)                                                                                                                                 | 1330.00          | Sliding WOB (klbs)         | 0.00 - 0.00    |
| YP                              | 3.00        | Stalls                                                                                                                                               | 0                | Temp (°F)                  | 90.00 - 105.00 |
|                                 |             | NPT                                                                                                                                                  | 0.0              |                            |                |

**Items (Directional)**

| Description                                                                                                                                                    | Vendor        | SN#         | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: NOV TK69, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 0.40, Size (in): 14.75                    | REED          | A271051     | 6 5/8" Reg Pin |                |         | 14.750  |              | 1.50     | 1.50           |
| <b>Mud Motor</b><br>Description: 8" 7/8 5.9 Stg. 1.75° FBH w/ 12" NBS, Size (in): 8.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.9 | Butch's       | BDT-800-017 | 6 5/8" Reg Box | 6 5/8" Reg Box |         | 8.000   |              | 37.42    | 38.92          |
| <b>Stabilizer</b><br>Description: 12" NT Stabilizer                                                                                                            | JAO           | JAO 12379   | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.000   | 8.250   |              | 6.84     | 45.76          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                               | AIM           | 800613      | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.000   |              | 3.00     | 48.76          |
| <b>Drill Collar</b><br>Description: NMDC (Spacer), Material: Non-Magnetic, Type: Slick Drill                                                                   | AIM           | DY800009MJ  | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.21    | 78.97          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                                 | AIM           | DY80013MJ   | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.25    | 109.22         |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                                  | BLACK DIAMOND | BD14829     | EverDrlg54 Box | 6 5/8" Reg Pin | 2.750   | 8.000   |              | 3.17     | 112.39         |





|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

**BHA #2 - 9 7/8 Intermediate (Directional)**

| Motor Details                      |          | Date/Depth/Distances         |                  | Hours                             |        |
|------------------------------------|----------|------------------------------|------------------|-----------------------------------|--------|
| <b>Size (in)</b>                   | 8.00     | <b>Date In</b>               | 2021-06-12 02:30 | <b>Downhole Hours</b>             | 45.75  |
| <b>Lobe/Stage</b>                  | 7/8, 5.9 | <b>Depth In (ft)</b>         | 1585.00          | <b>Drilling/Circulating Hours</b> | 34.08  |
| <b>Bend Angle</b>                  | 1.75     | <b>Date Out</b>              | 2021-06-14 00:15 | <b>Drilling Hours</b>             | 30.75  |
| <b>Speed (rev/gal)</b>             | 0.15     | <b>Depth Out (ft)</b>        | 6642.00          | <b>Circulating Hours</b>          | 3.33   |
| <b>Wear Pad OD (in)</b>            | 8.313    | <b>Distance Slid (ft)</b>    | 197.00           | <b>Sliding Hours</b>              | 6.42   |
| <b>Incident</b>                    | No       | <b>Distance Rotated (ft)</b> | 4860.00          | <b>Rotating Hours</b>             | 24.33  |
| <b>Motor Post Run/Notes</b>        |          | <b>% Distance Sliding</b>    | 3.90%            | <b>% Hours Sliding</b>            | 20.87% |
| <b>Average Total ROP (ft/h)</b>    | 164.46   | <b>% Distance Rotating</b>   | 96.10%           | <b>% Hours Rotating</b>           | 79.13% |
| <b>Average Slide ROP (ft/h)</b>    | 30.70    | <b>BHA Objective</b>         |                  |                                   |        |
| <b>Average Rotating ROP (ft/h)</b> | 199.73   | Drill 9 7/8" Intermediate    |                  |                                   |        |

|                                                                                          |        |
|------------------------------------------------------------------------------------------|--------|
| <b>Notes:</b> N/A                                                                        |        |
| <b>Bit Details</b>                                                                       |        |
| <b>OD (in)</b>                                                                           | 9.875  |
| <b>Vendor</b>                                                                            | REED   |
| <b>Nozzles</b>                                                                           | 7 x 14 |
| <b>Total Flow Area (in²)</b>                                                             | 1.052  |
| <b>Bit Distances</b>                                                                     |        |
| <b>Bit To Survey (Bit to Sensor):</b> 69.00 ft,<br><b>Gamma (Bit to Gamma):</b> 54.00 ft |        |
| <b>Bit Post Run/Notes</b>                                                                |        |
| <b>Dull Grading</b> DBR                                                                  |        |
| <b>Notes:</b> OUTER GAUGE WAS GONE WITH MANY DAMAGED AND LOST CUTTERS                    |        |
| <b>MWD</b>                                                                               |        |
| <b>Max Downhole Temp (°F)</b>                                                            | N/A    |
| <b>Mud Properties</b>                                                                    |        |
| <b>Type</b>                                                                              | Brine  |
| <b>WT</b>                                                                                | 10.20  |
| <b>VIS</b>                                                                               | 28.00  |
| <b>PV</b>                                                                                | 1.00   |
| <b>YP</b>                                                                                | 3.00   |

**POOH Reason/Notes**

**Change Bottom Hole Assembly:** WHEN MOTOR REACHED RIG FLOOR EVERYTHING LOOKED GREAT EXCEPT BIT WAS UNDER GAUGE

**Incident Notes**

**Directional:** BIT HAD DAMAGE AND OUT OF GAUGE

**MWD:****Comments**

**Directional:** 8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 9 5/8" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 0 Runs

**Parameters**

|                                  |                   |                            |                 |
|----------------------------------|-------------------|----------------------------|-----------------|
| <b>Flow Rate (gpm)</b>           | 643.00 - 800.00   | <b>Motor RPM</b>           | 50.00 - 70.00   |
| <b>On Bottom Pressure (psi)</b>  | 1800.00 - 3200.00 | <b>Surface RPM</b>         | 35.00 - 70.00   |
| <b>Off Bottom Pressure (psi)</b> | 1150.00 - 2700.00 | <b>Rotating WOB (klbs)</b> | 15.00 - 50.00   |
| <b>Stall Pressure (psi)</b>      | 0.00              | <b>Sliding WOB (klbs)</b>  | 15.00 - 20.00   |
| <b>Stalls</b>                    | 0                 | <b>Temp (°F)</b>           | 100.00 - 131.00 |
| <b>NPT</b>                       | 0.0               |                            |                 |

**Items (Directional)**

| Description                                                                                                                                                                                                      | Vendor        | SN#         | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: <i>Reed TKC76</i> , Type: <i>PDC (Polycrystalline Diamond Compacts)</i> , Gauge Length (in): <i>3.50</i> , Size (in): <i>9.88</i>                                      | REED          | A269341     | 6 5/8" Reg Pin |                |         | 9.875   |              | 1.25     | 1.25           |
| <b>Mud Motor</b><br>Description: <i>8" 7/8 5.9 Stg. 1.75° FBH w/ 9 5/8" NBS</i> , Size (in): <i>8.00</i> , Bend Angle (°): <i>1.75</i> , Rotor Lobe: <i>7</i> , Stator Lobe: <i>8</i> , Stator Stage: <i>5.9</i> | Butch's       | BDT-800-015 | 6 5/8" Reg Box | 6 5/8" Reg Box |         | 8.000   |              | 37.18    | 38.43          |
| <b>Stabilizer</b><br>Description: <i>9 5/8" Nortrack Stabilizer</i>                                                                                                                                              | JAO           | JOA97909    | 6 5/8" Reg Box | 6 5/8" Reg Pin | 2.875   | 8.125   |              | 6.01     | 44.44          |
| <b>UBHO Sub</b><br>Description: <i>UBHO Sub</i> , Material: <i>Non-Magnetic</i>                                                                                                                                  | AIM           | 800613      | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.000   |              | 3.00     | 47.44          |
| <b>Drill Collar</b><br>Description: <i>NMDC (Spacer)</i> , Material: <i>Non-Magnetic</i> , Type: <i>Slick Drill</i>                                                                                              | AIM           | DY800009MJ  | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.21    | 77.65          |
| <b>Drill Collar</b><br>Description: <i>NMDC (MWD Tool)</i> , Material: <i>Non-Magnetic</i> , Type: <i>Slick Drill</i>                                                                                            | AIM           | DY80013MJ   | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.25    | 107.90         |
| <b>Crossover Sub</b><br>Description: <i>X-O SUB</i> , Material: <i>Steel</i>                                                                                                                                     | BLACK DIAMOND | BD14829     | EverDrlg54 Box | 6 5/8" Reg Pin | 2.750   | 8.000   |              | 3.17     | 111.07         |
| <b>HWDP</b><br>Description: <i>5.5" HWDP (13 Stands)</i> , Type: <i>Slick</i>                                                                                                                                    | BLACK DIAMOND |             | EverDrlg54 Box | EverDrlg54 Pin | 2.875   | 5.500   |              | 1213.05  | 1324.12        |
| <b>Crossover Sub</b><br>Description: <i>4.5 IF (B) x EverDrill 54 (P)</i> , Material: <i>Steel</i>                                                                                                               | BLACK DIAMOND | BD8071      | 4 1/2" IF Box  | EverDrlg54 Pin | 3.125   | 6.750   |              | 3.87     | 1327.99        |
| <b>Crossover Sub</b><br>Description: <i>CET 43 (B) x 4.5 IF (P)</i> , Material: <i>Steel</i>                                                                                                                     | Platinum      | PPR2786     | CET43 Box      | 4 1/2" IF Pin  | 2.500   | 6.500   |              | 2.83     | 1330.82        |





|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

**BHA #3 - 9 7/8 Intermediate (Directional)**

| Motor Details                            |          | Date/Depth/Distances                                                                                                                                    |                  | Hours                             |        |
|------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------|--------|
| Size(in)                                 | 8.00     | Date In                                                                                                                                                 | 2021-06-14 01:00 | Downhole Hours                    | 72.50  |
| Lobe/Stage                               | 7/8, 5.9 | Depth In (ft)                                                                                                                                           | 6642.00          | Drilling/Circulating Hours        | 54.00  |
| Bend Angle                               | 1.75     | Date Out                                                                                                                                                | 2021-06-17 01:30 | Drilling Hours                    | 39.83  |
| Speed (rev/gal)                          | 0.15     | Depth Out (ft)                                                                                                                                          | 10019.00         | Circulating Hours                 | 14.17  |
| Wear Pad OD (in)                         | 8.250    | Distance Slid (ft)                                                                                                                                      | 164.00           | Sliding Hours                     | 9.58   |
| Incident                                 | No       | Distance Rotated (ft)                                                                                                                                   | 3213.00          | Rotating Hours                    | 30.25  |
| Motor Post Run/Notes                     |          | % Distance Sliding                                                                                                                                      | 4.86%            | % Hours Sliding                   | 24.06% |
| Average Total ROP (ft/h)                 | 84.78    | % Distance Rotating                                                                                                                                     | 95.14%           | % Hours Rotating                  | 75.94% |
| Average Slide ROP (ft/h)                 | 17.11    | BHA Objective                                                                                                                                           |                  |                                   |        |
| Average Rotating ROP (ft/h)              | 106.21   | DRILL 9 7/8 INTERMEDIATE                                                                                                                                |                  |                                   |        |
| Notes: N/A                               |          | POOH Reason/Notes                                                                                                                                       |                  |                                   |        |
| Bit Details                              |          |                                                                                                                                                         |                  |                                   |        |
| OD (in)                                  | 9.880    |                                                                                                                                                         |                  |                                   |        |
| Vendor                                   | Ultrerra | Penetration Rate: WHEN MOTOR REACHED RIG FLOOR BEARINGS HAD SIGNIFICANT SLACK WHEN COMPRESSED                                                           |                  |                                   |        |
| Nozzles                                  | 6x15's   |                                                                                                                                                         |                  |                                   |        |
| Total Flow Area (in²)                    | 1.035    | Incident Notes                                                                                                                                          |                  |                                   |        |
| Bit Distances                            |          |                                                                                                                                                         |                  |                                   |        |
| Bit To Survey: 68.00 ft, Gamma: 53.00 ft |          | Directional: BIT WAS CORED OUT DBR                                                                                                                      |                  |                                   |        |
| Bit Post Run/Notes                       |          | MWD:                                                                                                                                                    |                  |                                   |        |
| Dull Grading                             | DBR      | Comments                                                                                                                                                |                  |                                   |        |
| Notes: N/A                               |          | Directional: 8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 9 5/8" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 0 Runs |                  |                                   |        |
| MWD                                      |          | Parameters                                                                                                                                              |                  |                                   |        |
| Max Downhole Temp (°F)                   | N/A      |                                                                                                                                                         |                  |                                   |        |
| Mud Properties                           |          | Flow Rate (gpm) 723.00 - 750.00                                                                                                                         |                  |                                   |        |
| Type                                     | Brine    | On Bottom Pressure (psi) 2550.00 - 3750.00                                                                                                              |                  | Motor RPM 60.00 - 70.00           |        |
| WT                                       | 10.30    | Off Bottom Pressure (psi) 1950.00 - 3100.00                                                                                                             |                  | Surface RPM 60.00 - 60.00         |        |
| VIS                                      | 28.00    | Stall Pressure (psi) 0.00                                                                                                                               |                  | Rotating WOB (klbs) 35.00 - 35.00 |        |
| PV                                       | 2.00     | Stalls 0                                                                                                                                                |                  | Sliding WOB (klbs) 15.00 - 15.00  |        |
| YP                                       | 3.00     | NPT 0.0                                                                                                                                                 |                  | Temp (°F) 109.00 - 149.00         |        |

**Items (Directional)**

| Description                                                                                                                                                       | Vendor        | SN#         | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: 9 7/8 ULTERRA XP616, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 3.50, Size (in): 9.88             | Ultrerra      | 56248       | 6 5/8" Reg Pin |                |         | 9.880   |              | 1.50     | 1.50           |
| <b>Mud Motor</b><br>Description: 8" 7/8 5.9 Stg. 1.75° FBH w/ 9 5/8" NBS, Size (in): 8.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.9 | Butch's       | BDT-800-006 | 6 5/8" Reg Box | 6 5/8" Reg Box |         | 8.000   |              | 37.18    | 38.68          |
| <b>Stabilizer</b><br>Description: 9 5/8" Nortrack Stabilizer                                                                                                      | JAO           | JOA97880    | 6 5/8" Reg Box | 6 5/8" Reg Pin | 2.875   | 7.938   |              | 5.56     | 44.24          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                                  | AIM           | 800613      | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.000   |              | 3.00     | 47.24          |
| <b>Drill Collar</b><br>Description: NMDC (Spacer), Material: Non-Magnetic, Type: Slick Drill                                                                      | AIM           | DY800009MJ  | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.21    | 77.45          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                                    | AIM           | DY80013MJ   | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.25    | 107.70         |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                                     | BLACK DIAMOND | BD14829     | EverDrlg54 Box | 6 5/8" Reg Pin | 2.750   | 8.000   |              | 3.17     | 110.87         |
| <b>HWDP</b><br>Description: 5.5" HWDP (13 Stands), Type: Slick                                                                                                    | BLACK DIAMOND |             | EverDrlg54 Box | EverDrlg54 Pin | 2.875   | 5.500   |              | 1213.05  | 1323.92        |
| <b>Crossover Sub</b><br>Description: 4.5 IF (B) x EverDrill 54 (P), Material: Steel                                                                               | BLACK DIAMOND | BD8071      | 4 1/2" IF Box  | EverDrlg54 Pin | 3.125   | 6.750   |              | 3.87     | 1327.79        |
| <b>Crossover Sub</b><br>Description: CET 43 (B) x 4.5 IF (P), Material: Steel                                                                                     | Platinum      | PPR2786     | CET43 Box      | 4 1/2" IF Pin  | 2.500   | 6.500   |              | 2.83     | 1330.62        |





|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

**BHA #4 - 9 7/8 Intermediate (Directional)**

| Motor Details                      |          | Date/Depth/Distances         | Hours            |
|------------------------------------|----------|------------------------------|------------------|
| <b>Size (in)</b>                   | 8.00     | <b>Date In</b>               | 2021-06-17 02:00 |
| <b>Lobe/Stage</b>                  | 7/8, 5.9 | <b>Depth In (ft)</b>         | 10019.00         |
| <b>Bend Angle</b>                  | 1.75     | <b>Date Out</b>              | 2021-06-18 03:30 |
| <b>Speed (rev/gal)</b>             | 0.15     | <b>Depth Out (ft)</b>        | 10645.00         |
| <b>Wear Pad OD (in)</b>            | 8.250    | <b>Distance Slid (ft)</b>    | 32.00            |
| <b>Incident</b>                    | No       | <b>Distance Rotated (ft)</b> | 594.00           |
| <b>Motor Post Run/Notes</b>        |          | <b>% Distance Sliding</b>    | 5.11%            |
| <b>Average Total ROP (ft/h)</b>    | 46.95    | <b>% Distance Rotating</b>   | 94.89%           |
| <b>Average Slide ROP (ft/h)</b>    | 12.39    | <b>% Hours Sliding</b>       | 19.38%           |
| <b>Average Rotating ROP (ft/h)</b> | 55.26    | <b>% Hours Rotating</b>      | 80.62%           |

|                   |                          |
|-------------------|--------------------------|
| <b>Notes:</b> N/A | <b>BHA Objective</b>     |
|                   | DRILL 9 7/8 INTERMEDIATE |

| Bit Details                  |             | POOH Reason/Notes                                                                                      |
|------------------------------|-------------|--------------------------------------------------------------------------------------------------------|
| <b>OD (in)</b>               | 9.880       |                                                                                                        |
| <b>Vendor</b>                | Halliburton |                                                                                                        |
| <b>Nozzles</b>               | 9x12's      | <b>Total Depth/Casing Point:</b> WHEN MOTOR REACHED RIG FLOOR LITTLE SLACK IN BEARINGS WITH WEAR TO KP |
| <b>Total Flow Area (in²)</b> | 0.994       |                                                                                                        |

| Bit Distances                                          |  | Incident Notes                                                            |
|--------------------------------------------------------|--|---------------------------------------------------------------------------|
| <b>Bit To Survey:</b> 68.00 ft, <b>Gamma:</b> 53.00 ft |  | <b>Directional:</b> BIT HAD 3 PLUGGED JETS WITH DAMAGE TO OUTSIDE CUTTERS |
|                                                        |  | <b>MWD:</b>                                                               |

| Bit Post Run/Notes                              |     | Comments                                                                                                                                                       |
|-------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dull Grading</b>                             | 2/1 | <b>Directional:</b> 8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 9 5/8" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 0 Runs |
| <b>Notes:</b> BIT HAD DAMAGE TO OUTSIDE CUTTERS |     |                                                                                                                                                                |

| MWD                           |     |
|-------------------------------|-----|
| <b>Max Downhole Temp (°F)</b> | N/A |

| Mud Properties |       | Parameters                       |                   |
|----------------|-------|----------------------------------|-------------------|
| <b>Type</b>    | Brine | <b>Flow Rate (gpm)</b>           | 747.00 - 750.00   |
| <b>WT</b>      | 10.20 | <b>Motor RPM</b>                 | 60.00 - 70.00     |
| <b>VIS</b>     | 28.00 | <b>On Bottom Pressure (psi)</b>  | 3500.00 - 3750.00 |
| <b>PV</b>      | 1.00  | <b>Off Bottom Pressure (psi)</b> | 2950.00 - 3100.00 |
| <b>YP</b>      | 3.00  | <b>Rotating WOB (klbs)</b>       | 35.00 - 35.00     |
|                |       | <b>Stall Pressure (psi)</b>      | 0.00              |
|                |       | <b>Sliding WOB (klbs)</b>        | 15.00 - 15.00     |
|                |       | <b>Stalls</b>                    | 0                 |
|                |       | <b>Temp (°F)</b>                 | 134.00 - 154.00   |
|                |       | <b>NPT</b>                       | 0.0               |

| Items (Directional)                                                                                                                                               |               |             |                |                |         |         |              |          |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| Description                                                                                                                                                       | Vendor        | SN#         | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
| <b>Bit (Fixed Cutter)</b><br>Description: 9 7/8 gt65dmheos, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 3.50, Size (in): 9.88                | Halliburton   | 13478553    | 6 5/8" Reg Pin |                |         | 9.880   |              | 1.50     | 1.50           |
| <b>Mud Motor</b><br>Description: 8" 7/8 5.9 Stg. 1.75° FBH w/ 9 5/8" NBS, Size (in): 8.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.9 | Butch's       | BDT-800-004 | 6 5/8" Reg Box | 6 5/8" Reg Box |         | 8.000   |              | 37.54    | 39.04          |
| <b>Stabilizer</b><br>Description: 9 5/8" Nortrack Stabilizer                                                                                                      | JAO           | JOA97880    | 6 5/8" Reg Box | 6 5/8" Reg Pin | 2.875   | 7.938   |              | 5.56     | 44.60          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                                  | AIM           | 800613      | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.000   |              | 3.00     | 47.60          |
| <b>Drill Collar</b><br>Description: NMDC (Spacer), Material: Non-Magnetic, Type: Slick Drill                                                                      | AIM           | DY800009MJ  | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.21    | 77.81          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                                    | AIM           | DY80013MJ   | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.25    | 108.06         |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                                     | BLACK DIAMOND | BD14829     | EverDrlg54 Box | 6 5/8" Reg Pin | 2.750   | 8.000   |              | 3.17     | 111.23         |
| <b>HWDP</b><br>Description: 5.5" HWDP (13 Stands), Type: Slick                                                                                                    | BLACK DIAMOND |             | EverDrlg54 Box | EverDrlg54 Pin | 2.875   | 5.500   |              | 1213.05  | 1324.28        |
| <b>Crossover Sub</b><br>Description: 4.5 IF (B) x EverDrill 54 (P), Material: Steel                                                                               | BLACK DIAMOND | BD8071      | 4 1/2" IF Box  | EverDrlg54 Pin | 3.125   | 6.750   |              | 3.87     | 1328.15        |
| <b>Crossover Sub</b><br>Description: CET 43 (B) x 4.5 IF (P), Material: Steel                                                                                     | Platinum      | PPR2786     | CET43 Box      | 4 1/2" IF Pin  | 2.500   | 6.500   |              | 2.83     | 1330.98        |





|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

**BHA #5 - 6.75" INTERMEDIATE (Directional)**

| Motor Details                      |          | Date/Depth/Distances         | Hours            |
|------------------------------------|----------|------------------------------|------------------|
| <b>Size (in)</b>                   | 5.00     | <b>Date In</b>               | 2021-06-20 00:30 |
| <b>Lobe/Stage</b>                  | 6/7, 7.0 | <b>Depth In (ft)</b>         | 10645.00         |
| <b>Bend Angle</b>                  | 1.50     | <b>Date Out</b>              | 2021-06-21 16:30 |
| <b>Speed (rev/gal)</b>             | 0.82     | <b>Depth Out (ft)</b>        | 11660.00         |
| <b>Wear Pad OD (in)</b>            | 5.270    | <b>Distance Slid (ft)</b>    | 44.00            |
| <b>Incident</b>                    | No       | <b>Distance Rotated (ft)</b> | 971.00           |
| <b>Motor Post Run/Notes</b>        |          | <b>% Distance Sliding</b>    | 4.33%            |
| <b>Average Total ROP (ft/h)</b>    | 47.76    | <b>% Distance Rotating</b>   | 95.67%           |
| <b>Average Slide ROP (ft/h)</b>    | 17.60    | <b>% Hours Sliding</b>       | 11.76%           |
| <b>Average Rotating ROP (ft/h)</b> | 51.79    | <b>% Hours Rotating</b>      | 88.24%           |

|                                                      |                      |
|------------------------------------------------------|----------------------|
| <b>Notes:</b> Motor drained fine. No visible damage. | <b>BHA Objective</b> |
|                                                      | DRILL TO KOP         |

| Bit Details                  |               | POOH Reason/Notes                       |
|------------------------------|---------------|-----------------------------------------|
| <b>OD (in)</b>               | 6.750         |                                         |
| <b>Vendor</b>                | Ultrerra      |                                         |
| <b>Nozzles</b>               | 3x14's 3x16's | <b>Change Bottom Hole Assembly:</b> N/A |
| <b>Total Flow Area (in²)</b> | 1.040         |                                         |

| Bit Distances                                          |  | Incident Notes          |
|--------------------------------------------------------|--|-------------------------|
| <b>Bit To Survey:</b> 64.00 ft, <b>Gamma:</b> 49.00 ft |  | <b>Directional:</b> N/A |
|                                                        |  | <b>MWD:</b>             |

| Bit Post Run/Notes  |     | Comments                                                                                                                                                     |
|---------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dull Grading</b> | 0/1 | <b>Directional:</b> 5" Motor: 1.5° FBH 6/7 7.0 Stg Mtr w/ 6 1/2" Stab, Flow Range: 150-360 gpm, Max Diff: 1750 psi, Max Torque: 4665ft/lbs, Bit Runs: 3 Runs |
| <b>Notes:</b> GREEN |     |                                                                                                                                                              |

| MWD                           |     |
|-------------------------------|-----|
| <b>Max Downhole Temp (°F)</b> | N/A |

| Mud Properties |           | Parameters                       |                   |
|----------------|-----------|----------------------------------|-------------------|
| <b>Type</b>    | Oil Based | <b>Flow Rate (gpm)</b>           | 225.00 - 225.00   |
| <b>WT</b>      | 10.00     | <b>On Bottom Pressure (psi)</b>  | 2200.00 - 2550.00 |
| <b>VIS</b>     | 58.00     | <b>Off Bottom Pressure (psi)</b> | 1500.00 - 1500.00 |
| <b>PV</b>      | 16.00     | <b>Stall Pressure (psi)</b>      | 1550.02           |
| <b>YP</b>      | 7.00      | <b>Stalls</b>                    | 5                 |
|                |           | <b>NPT</b>                       | 0.0               |

**Items (Directional)**

| Description                                                                                                                                                     | Vendor   | SN#          | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: 6 3/4 CF613, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 2.50, Size (in): 6.75                   | Ultrerra | 35404        | 3 1/2" REG Pin |                |         | 6.750   |              | 1.00     | 1.00           |
| <b>Mud Motor</b><br>Description: 5" 6/7 5.9 Stg. 1.5° FBH w/ 6 1/2" NBS, Size (in): 5.00, Bend Angle (°): 1.5, Rotor Lobe: 6, Stator Lobe: 7, Stator Stage: 7.0 | Butch's  | LS-475-41    | 3 1/2" IF Box  | 3 1/2" REG Box |         | 5.000   |              | 26.57    | 27.57          |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                                   | GATOR    | LT5033444    | XT39 Box       | 3 1/2" IF Pin  | 2.625   | 4.938   |              | 3.33     | 30.90          |
| <b>Float Sub</b><br>Description: FLOAT SUB, Material: Steel                                                                                                     | GATOR    | 233054       | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.12     | 34.02          |
| <b>Stabilizer</b><br>Description: 6 1/2 SPIRAL STAB                                                                                                             | GATOR    | 65040        | XT39 Box       | XT39 Pin       | 2.250   | 5.188   |              | 5.13     | 39.15          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                                | GATOR    | GT503338     | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.61     | 42.76          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                                  | GATOR    | GT-51-30-544 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.78    | 73.54          |
| <b>Drill Collar</b><br>Description: NMDC, Material: Non-Magnetic, Type: Slick Drill                                                                             | GATOR    | GT-51-30-533 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.81    | 104.35         |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                                   | GATOR    | PPR6502      | CET43 Box      | XT39 Pin       | 2.500   | 5.000   |              | 2.90     | 107.25         |
| <b>HWDP</b><br>Description: 13 STANDS HWDP, Type: Slick                                                                                                         | RIG      |              | CET43 Box      | CET43 Pin      | 2.813   | 5.313   |              | 1190.34  | 1297.59        |





|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
| <b>Company Man</b>              |                                                     |                                                       |

**BHA #6 - 6.75" CURVE (Directional)**

| Motor Details                            |           | Date/Depth/Distances                                                                           |                   | Hours                      |                 |
|------------------------------------------|-----------|------------------------------------------------------------------------------------------------|-------------------|----------------------------|-----------------|
| Size(in)                                 | 5.00      | Date In                                                                                        | 2021-06-21 17:45  | Downhole Hours             | 29.50           |
| Lobe/Stage                               | 7/8, 5.0  | Depth In (ft)                                                                                  | 11660.00          | Drilling/Circulating Hours | 15.67           |
| Bend Angle                               | 2.12      | Date Out                                                                                       | 2021-06-22 23:15  | Drilling Hours             | 14.25           |
| Speed (rev/gal)                          | 0.64      | Depth Out (ft)                                                                                 | 12560.00          | Circulating Hours          | 1.42            |
| Wear Pad OD (in)                         | 5.320     | Distance Slid (ft)                                                                             | 512.00            | Sliding Hours              | 9.17            |
| Incident                                 | No        | Distance Rotated (ft)                                                                          | 388.00            | Rotating Hours             | 5.08            |
| Motor Post Run/Notes                     |           | % Distance Sliding                                                                             | 56.89%            | % Hours Sliding            | 64.33%          |
| Average Total ROP (ft/h)                 | 63.16     | % Distance Rotating                                                                            | 43.11%            | % Hours Rotating           | 35.67%          |
| Average Slide ROP (ft/h)                 | 55.85     | BHA Objective                                                                                  |                   |                            |                 |
| Average Rotating ROP (ft/h)              | 76.33     | BUILD CURVE                                                                                    |                   |                            |                 |
| Notes: N/A                               |           | POOH Reason/Notes                                                                              |                   |                            |                 |
| Bit Details                              |           |                                                                                                |                   |                            |                 |
| OD (in)                                  | 6.750     |                                                                                                |                   |                            |                 |
| Vendor                                   | Ulterra   | Change Bottom Hole Assembly: WHEN MOTOR REACHED RIG FLOOR EVERYTHING LOOKED AS EXPECTED        |                   |                            |                 |
| Nozzles                                  | 6x15's    |                                                                                                |                   |                            |                 |
| Total Flow Area (in²)                    | 1.035     | Incident Notes                                                                                 |                   |                            |                 |
| Bit Distances                            |           |                                                                                                |                   |                            |                 |
| Bit To Survey: 54.00 ft, Gamma: 39.00 ft |           | Directional: NONE                                                                              |                   |                            |                 |
| Bit Post Run/Notes                       |           | MWD:                                                                                           |                   |                            |                 |
| Dull Grading                             | 1-1       | Comments                                                                                       |                   |                            |                 |
| Notes: 0                                 |           | Directional: Flow Range: 150-300 gpm, Max Diff: 1180 psi, Max Torque: 4670 ft/lbs, Bit Runs: 1 |                   |                            |                 |
| MWD                                      |           |                                                                                                |                   |                            |                 |
| Max Downhole Temp (°F)                   | N/A       |                                                                                                |                   |                            |                 |
| Mud Properties                           |           | Parameters                                                                                     |                   |                            |                 |
| Type                                     | Oil Based | Flow Rate (gpm)                                                                                | 225.00 - 300.00   | Motor RPM                  | 20.00 - 20.00   |
| WT                                       | 10.50     | On Bottom Pressure (psi)                                                                       | 2200.00 - 3600.00 | Surface RPM                | 20.00 - 20.00   |
| VIS                                      | 68.00     | Off Bottom Pressure (psi)                                                                      | 1500.00 - 2700.00 | Rotating WOB (klbs)        | 20.00 - 20.00   |
| PV                                       | 16.00     | Stall Pressure (psi)                                                                           | 0.00              | Sliding WOB (klbs)         | 15.00 - 15.00   |
| YP                                       | 8.00      | Stalls                                                                                         | 0                 | Temp (°F)                  | 145.00 - 154.00 |
|                                          |           | NPT                                                                                            | 0.0               |                            |                 |

**Items (Directional)**

| Description                                                                                                                                      | Vendor   | SN#            | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: CF611, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 2.50, Size (in): 6.75          | Ulterra  | 56011          | 3 1/2" REG Pin |                |         | 6.750   |              | 1.00     | 1.00           |
| <b>Mud Motor</b><br>Description: 5" 7/8 5.0 FXD @ 2.12°, Size (in): 5.00, Bend Angle (°): 2.12, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.0 | Aim      | 500-40-002-AIM | XT39 Box       | 3 1/2" REG Box |         | 5.000   |              | 25.69    | 26.69          |
| <b>Float Sub</b><br>Description: FLOATSUB, Material: Steel                                                                                       | GATOR    | 233054         | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.12     | 29.81          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                 | GATOR    | GT503338       | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.61     | 33.42          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                   | GATOR    | GT-51-30-544   | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.78    | 64.20          |
| <b>Drill Collar</b><br>Description: NMDC, Material: Non-Magnetic, Type: Slick Drill                                                              | GATOR    | GT-51-30-533   | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.81    | 95.01          |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                    | Platinum | PPR6502        | CET43 Box      | XT39 Pin       | 2.500   | 5.000   |              | 2.90     | 97.91          |
| <b>Drill Pipe</b><br>Description: 12 STANDS 4.5" DP, Type: Slick                                                                                 | Platinum |                | CET43 Box      | CET43 Pin      | 2.750   | 4.500   |              | 1139.34  | 1237.25        |
| <b>HWDP</b><br>Description: 13 STANDS HWDP, Type: Slick                                                                                          | Platinum |                | CET43 Box      | CET43 Pin      | 2.813   | 5.313   |              | 1190.34  | 2427.59        |





|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

**BHA #7 - 6.75" LATERAL (Directional)**

| Motor Details                      |          | Date/Depth/Distances         | Hours            |
|------------------------------------|----------|------------------------------|------------------|
| <b>Size (in)</b>                   | 5.00     | <b>Date In</b>               | 2021-06-23 01:00 |
| <b>Lobe/Stage</b>                  | 6/7, 8.0 | <b>Depth In (ft)</b>         | 12560.00         |
| <b>Bend Angle</b>                  | 1.75     | <b>Date Out</b>              | 2021-06-25 04:30 |
| <b>Speed (rev/gal)</b>             | 0.81     | <b>Depth Out (ft)</b>        | 16724.00         |
| <b>Wear Pad OD (in)</b>            | 5.480    | <b>Distance Slid (ft)</b>    | 604.00           |
| <b>Incident</b>                    | Yes      | <b>Distance Rotated (ft)</b> | 3560.00          |
| <b>Motor Post Run/Notes</b>        |          | <b>% Distance Sliding</b>    | 14.51%           |
| <b>Average Total ROP (ft/h)</b>    | 140.75   | <b>% Distance Rotating</b>   | 85.49%           |
| <b>Average Slide ROP (ft/h)</b>    | 52.91    |                              |                  |
| <b>Average Rotating ROP (ft/h)</b> | 195.96   |                              |                  |

|                                                                         |                      |
|-------------------------------------------------------------------------|----------------------|
| <b>Notes:</b> Low ROP, Stalling with Diff and Top Drive while on Bottom | <b>BHA Objective</b> |
|                                                                         | DRILL LATERAL        |

| Bit Details                  |        | POOH Reason/Notes                   |
|------------------------------|--------|-------------------------------------|
| <b>OD (in)</b>               | 6.750  |                                     |
| <b>Vendor</b>                | REED   |                                     |
| <b>Nozzles</b>               | 6x16's | <b>Downhole Motor Incident:</b> N/A |
| <b>Total Flow Area (in²)</b> | 1.178  |                                     |

| Bit Distances                                          |  | Incident Notes                                                                                                                   |
|--------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Bit To Survey:</b> 57.00 ft, <b>Gamma:</b> 42.00 ft |  | <b>Directional:</b> MOTOR STALLED TWICE AFTER ROP DROPPED OFF, BIT WAS RUNG OUT AND MOTOR DRAINED BUT BIT BOX WOULD SPIN FREELY. |
|                                                        |  | <b>MWD:</b>                                                                                                                      |

| Bit Post Run/Notes                               |     | Comments                                                                                              |
|--------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------|
| <b>Dull Grading</b>                              | 1/5 | <b>Directional:</b> Flow Range: 150-350 gpm, Max Diff: 2400 psi, Max Torque: 7632 ft/lbs, Bit Runs: 1 |
| <b>Notes:</b> In gauge. Shoulders were rung out. |     |                                                                                                       |
| <b>MWD</b>                                       |     |                                                                                                       |
| <b>Max Downhole Temp (°F)</b>                    | N/A |                                                                                                       |

| Mud Properties |           | Parameters                       |                   |
|----------------|-----------|----------------------------------|-------------------|
| <b>Type</b>    | Oil Based | <b>Flow Rate (gpm)</b>           | 298.00 - 300.00   |
| <b>WT</b>      | 11.00     | <b>On Bottom Pressure (psi)</b>  | 3700.00 - 4500.00 |
| <b>VIS</b>     | 60.00     | <b>Off Bottom Pressure (psi)</b> | 3050.00 - 3200.00 |
| <b>PV</b>      | 15.00     | <b>Stall Pressure (psi)</b>      | 2199.93           |
| <b>YP</b>      | 10.00     | <b>Stalls</b>                    | 2                 |
|                |           | <b>NPT</b>                       | 0.0               |

| Items (Directional)                                                                                                                                    |          |              |                |                |         |         |              |          |                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| Description                                                                                                                                            | Vendor   | SN#          | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
| <b>Bit (Fixed Cutter)</b><br>Description: SKC613, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 2.50, Size (in): 6.75               | REED     | A257707      | 3 1/2" REG Pin |                |         | 6.750   |              | 1.00     | 1.00           |
| <b>Mud Motor</b><br>Description: 5" 6/7 8.0 FXD @ 1.75° SLICK, Size (in): 5.00, Bend Angle (°): 1.75, Rotor Lobe: 6, Stator Lobe: 7, Stator Stage: 8.0 | Bico     | BPG24750107  | XT39 Box       | 3 1/2" REG Box |         | 5.000   |              | 28.35    | 29.35          |
| <b>Float Sub</b><br>Description: FLOATSUB, Material: Steel                                                                                             | GATOR    | 233054       | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.12     | 32.47          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                       | GATOR    | GT503338     | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.61     | 36.08          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                         | GATOR    | GT-51-30-544 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.78    | 66.86          |
| <b>Drill Collar</b><br>Description: NMDC, Material: Non-Magnetic, Type: Slick Drill                                                                    | GATOR    | GT-51-30-533 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.81    | 97.67          |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                          | Platinum | PPR6502      | CET43 Box      | XT39 Pin       | 2.500   | 5.000   |              | 2.90     | 100.57         |
| <b>Drill Pipe</b><br>Description: 20 STANDS PUSH PIE, Type: Slick                                                                                      | Platinum |              | CET43 Box      | CET43 Pin      | 2.750   | 4.500   |              | 1890.39  | 1990.96        |
| <b>Agitator</b><br>Description: AGITATOR, Size (in): 5.31                                                                                              | NOV      | 178-0038 HE  | CET43 Box      | CET43 Pin      |         | 5.310   |              | 22.52    | 2013.48        |





|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

**BHA #8 - 6.75" LATERAL (Directional)**

| Motor Details                            |           | Date/Depth/Distances                                                                           |                   | Hours                      |                 |
|------------------------------------------|-----------|------------------------------------------------------------------------------------------------|-------------------|----------------------------|-----------------|
| Size(in)                                 | 5.00      | Date In                                                                                        | 2021-06-25 06:30  | Downhole Hours             | 87.50           |
| Lobe/Stage                               | 6/7, 8.0  | Depth In (ft)                                                                                  | 16724.00          | Drilling/Circulating Hours | 51.00           |
| Bend Angle                               | 1.75      | Date Out                                                                                       | 2021-06-28 22:00  | Drilling Hours             | 42.58           |
| Speed (rev/gal)                          | 0.81      | Depth Out (ft)                                                                                 | 20310.00          | Circulating Hours          | 8.42            |
| Wear Pad OD (in)                         | 5.480     | Distance Slid (ft)                                                                             | 701.00            | Sliding Hours              | 21.83           |
| Incident                                 | No        | Distance Rotated (ft)                                                                          | 2885.00           | Rotating Hours             | 20.75           |
| Motor Post Run/Notes                     |           | % Distance Sliding                                                                             | 19.55%            | % Hours Sliding            | 51.27%          |
| Average Total ROP (ft/h)                 | 84.21     | % Distance Rotating                                                                            | 80.45%            | % Hours Rotating           | 48.73%          |
| Average Slide ROP (ft/h)                 | 32.11     | BHA Objective                                                                                  |                   |                            |                 |
| Average Rotating ROP (ft/h)              | 139.04    | Drill Lateral                                                                                  |                   |                            |                 |
| Notes: N/A                               |           |                                                                                                |                   |                            |                 |
| Bit Details                              |           |                                                                                                |                   |                            |                 |
| OD (in)                                  | 6.750     | POOH Reason/Notes                                                                              |                   |                            |                 |
| Vendor                                   | REED      | Total Depth/Casing Point: N/A                                                                  |                   |                            |                 |
| Nozzles                                  | 6x15's    |                                                                                                |                   |                            |                 |
| Total Flow Area (in²)                    | 1.035     |                                                                                                |                   |                            |                 |
| Bit Distances                            |           | Incident Notes                                                                                 |                   |                            |                 |
| Bit To Survey: 57.00 ft, Gamma: 42.00 ft |           | Directional: N/A                                                                               |                   |                            |                 |
|                                          |           | MWD:                                                                                           |                   |                            |                 |
| Bit Post Run/Notes                       |           | Comments                                                                                       |                   |                            |                 |
| Dull Grading                             | 1/1       | Directional: Flow Range: 150-350 gpm, Max Diff: 2400 psi, Max Torque: 7632 ft/lbs, Bit Runs: 3 |                   |                            |                 |
| Notes: 0                                 |           |                                                                                                |                   |                            |                 |
| MWD                                      |           |                                                                                                |                   |                            |                 |
| Max Downhole Temp (°F)                   | N/A       |                                                                                                |                   |                            |                 |
| Mud Properties                           |           | Parameters                                                                                     |                   |                            |                 |
| Type                                     | Oil Based | Flow Rate (gpm)                                                                                | 275.00 - 275.00   | Motor RPM                  | 0.00 - 0.00     |
| WT                                       | 11.30     | On Bottom Pressure (psi)                                                                       | 3850.00 - 4550.00 | Surface RPM                | 40.00 - 40.00   |
| VIS                                      | 66.00     | Off Bottom Pressure (psi)                                                                      | 3350.00 - 4200.00 | Rotating WOB (klbs)        | 25.00 - 37.00   |
| PV                                       | 22.00     | Stall Pressure (psi)                                                                           | 2399.94           | Sliding WOB (klbs)         | 40.00 - 50.00   |
| YP                                       | 12.00     | Stalls                                                                                         | 0                 | Temp (°F)                  | 186.00 - 192.00 |
|                                          |           | NPT                                                                                            | 0.0               |                            |                 |

**Items (Directional)**

| Description                                                                                                                                          | Vendor   | SN#          | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: SKC613, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 2.50, Size (in): 6.75             | REED     | A257713      | 3 1/2" REG Pin |                |         | 6.750   |              | 1.00     | 1.00           |
| <b>Mud Motor</b><br>Description: 5" 6/7 8.0 FXD @ 1.75° SLICK, Size (in): 5.00, Bend Angle (°): 1.75, Rotor Lobe: 6, Stator Lobe: 7, Stator Stage: 8 | Bico     | BPG24750143  | XT39 Box       | 3 1/2" REG Box |         | 5.000   |              | 28.23    | 29.23          |
| <b>Float Sub</b><br>Description: FLOATSUB, Material: Steel                                                                                           | GATOR    | 233054       | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.12     | 32.35          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                     | GATOR    | GT503338     | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.61     | 35.96          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                       | GATOR    | GT-51-30-544 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.78    | 66.74          |
| <b>Drill Collar</b><br>Description: NMDC, Material: Non-Magnetic, Type: Slick Drill                                                                  | GATOR    | GT-51-30-533 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.81    | 97.55          |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                        | Platinum | PPR6502      | CET43 Box      | XT39 Pin       | 2.500   | 5.000   |              | 2.90     | 100.45         |
| <b>Drill Pipe</b><br>Description: 20 STANDS DRILL PIPE, Type: Slick                                                                                  | Platinum |              | CET43 Box      | CET43 Pin      | 2.750   | 4.500   |              | 1890.39  | 1990.84        |
| <b>Agitator</b><br>Description: AGITATOR, Size (in): 5.31                                                                                            | NOV      | 178-0038 HE  | CET43 Box      | CET43 Pin      |         | 5.310   |              | 22.52    | 2013.36        |





# Mud Motor Reports

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## Dagger State Com 804H (WT-21-069)

2021-06-01 to 2021-07-02

Lea, New Mexico, US (32.45, -103.62)

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|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
| <b>Company Man</b>              |                                                     |                                                       |

**Mud Motor Report - BHA 1 (BHA #1 - 14.75" Surface)**

| Motor Details                                                                                                                                        |                                        | Date/Depth/Distances         |                  | Hours                      |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|------------------|----------------------------|----------------|
| S/N                                                                                                                                                  | BDT-800-017                            | Date In                      | 2021-06-10 21:50 | Downhole Hours             | 12.42          |
| Size (in)                                                                                                                                            | 8.0                                    | Depth In (ft)                | 120.00           | Drilling/Circulating Hours | 6.12           |
| Lobe/Stage                                                                                                                                           | 7/8, 5.90                              | Date Out                     | 2021-06-11 10:15 |                            |                |
| Bend Angle                                                                                                                                           | 1.75                                   | Depth Out (ft)               | 1585.00          | Circulating Hours          | 1.03           |
| Speed (rev/gal)                                                                                                                                      | 0.15                                   | Total Drilled (ft)           | 1465.00          | Drilling Hours             | 5.08           |
| Wear Pad OD (in)                                                                                                                                     | 8.250                                  | Distance Slid (ft)           | 0.00             | Sliding Hours              | 0.00           |
| Manufacturer                                                                                                                                         | Butch's                                | Distance Rotated (ft)        | 1465.00          | Rotating Hours             | 5.08           |
| Motor Results                                                                                                                                        |                                        | % Distance Sliding           | 0.00%            | % Hours Rotating           | 100.00%        |
| Motor Incident                                                                                                                                       | No                                     | % Distance Rotating          | 100.00%          | % Hours Sliding            | 0.00%          |
| Average Total ROP (ft/h)                                                                                                                             | 288.20                                 | BHA Parameters               |                  |                            |                |
| Average Slide ROP (ft/h)                                                                                                                             | 0.00                                   | Flow Rate (gpm)              | 500.00 - 800.00  | Motor RPM                  | 40.00 - 160.00 |
| Average Rotating ROP (ft/h)                                                                                                                          | 288.20                                 | Stalls                       | 0                | Surface RPM                | 40.00 - 40.00  |
| Bit Details                                                                                                                                          |                                        | Stall Pressure (psi)         | 1330.00          | Rotating WOB (klbs)        | 2.00 - 17.00   |
| OD (in)                                                                                                                                              | 14.750                                 | On Bottom Pressure (psi)     | 750.00 - 1450.00 | Sliding WOB (klbs)         | 0.00 - 0.00    |
| Vendor                                                                                                                                               | REED                                   | Off Bottom Pressure (psi)    | 450.00 - 1000.00 | Temp (°F)                  | 90.00 - 105.00 |
| S/N                                                                                                                                                  | A271051                                | NPT                          | 0.0              |                            |                |
| Nozzles                                                                                                                                              | 6x16's                                 | BHA Objective                |                  |                            |                |
| Total Flow Area (in²)                                                                                                                                | 1.178                                  | Drill 14.75" Surface section |                  |                            |                |
| Bit Type                                                                                                                                             | PDC (Polycrystalline Diamond Compacts) |                              |                  |                            |                |
| Bit Distances                                                                                                                                        |                                        |                              |                  |                            |                |
| Survey: 70.00 ft                                                                                                                                     |                                        |                              |                  |                            |                |
| Mud Properties                                                                                                                                       |                                        |                              |                  |                            |                |
| Type                                                                                                                                                 | Water Based                            |                              |                  |                            |                |
| WT                                                                                                                                                   | 8.70                                   |                              |                  |                            |                |
| VIS                                                                                                                                                  | 28.00                                  |                              |                  |                            |                |
| PV                                                                                                                                                   | 1.00                                   |                              |                  |                            |                |
| YP                                                                                                                                                   | 3.00                                   |                              |                  |                            |                |
| POOH Reason/Notes                                                                                                                                    |                                        |                              |                  |                            |                |
| Total Depth/Casing Point                                                                                                                             |                                        |                              |                  |                            |                |
| Incident Notes                                                                                                                                       |                                        |                              |                  |                            |                |
| Directional:                                                                                                                                         |                                        |                              |                  |                            |                |
| MWD:                                                                                                                                                 |                                        |                              |                  |                            |                |
| Comments                                                                                                                                             |                                        |                              |                  |                            |                |
| Directional: 8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 12" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 3 Runs |                                        |                              |                  |                            |                |
| MWD:                                                                                                                                                 |                                        |                              |                  |                            |                |



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
| <b>Company Man</b>              |                                                     |                                                       |

**Mud Motor Report - BHA 2 (9 7/8 Intermediate)**

| Motor Details                                                                                                                                           |                                        | Date/Depth/Distances      |                   | Hours                                                         |                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------|-------------------|---------------------------------------------------------------|-----------------|
| S/N                                                                                                                                                     | BDT-800-015                            | Date In                   | 2021-06-12 02:30  | Downhole Hours                                                | 45.75           |
| Size (in)                                                                                                                                               | 8.0                                    | Depth In (ft)             | 1585.00           | Drilling/Circulating Hours                                    | 34.08           |
| Lobe/Stage                                                                                                                                              | 7/8, 5.90                              | Date Out                  | 2021-06-14 00:15  |                                                               |                 |
| Bend Angle                                                                                                                                              | 1.75                                   | Depth Out (ft)            | 6642.00           | Circulating Hours                                             | 3.33            |
| Speed (rev/gal)                                                                                                                                         | 0.15                                   | Total Drilled (ft)        | 5057.00           | Drilling Hours                                                | 30.75           |
| Wear Pad OD (in)                                                                                                                                        | 8.313                                  | Distance Slid (ft)        | 197.00            | Sliding Hours                                                 | 6.42            |
| Manufacturer                                                                                                                                            | Butch's                                | Distance Rotated (ft)     | 4860.00           | Rotating Hours                                                | 24.33           |
| Motor Results                                                                                                                                           |                                        | % Distance Sliding        | 3.90%             | % Hours Rotating                                              | 79.13%          |
| Motor Incident                                                                                                                                          | No                                     | % Distance Rotating       | 96.10%            | % Hours Sliding                                               | 20.87%          |
| Average Total ROP (ft/h)                                                                                                                                | 164.46                                 | BHA Parameters            |                   |                                                               |                 |
| Average Slide ROP (ft/h)                                                                                                                                | 30.70                                  | Flow Rate (gpm)           | 643.00 - 800.00   | Motor RPM                                                     | 50.00 - 70.00   |
| Average Rotating ROP (ft/h)                                                                                                                             | 199.73                                 | Stalls                    | 0                 | Surface RPM                                                   | 35.00 - 70.00   |
| Bit Details                                                                                                                                             |                                        | Stall Pressure (psi)      | 0.00              | Rotating WOB (klbs)                                           | 15.00 - 50.00   |
| OD (in)                                                                                                                                                 | 9.875                                  | On Bottom Pressure (psi)  | 1800.00 - 3200.00 | Sliding WOB (klbs)                                            | 15.00 - 20.00   |
| Vendor                                                                                                                                                  | REED                                   | Off Bottom Pressure (psi) | 1150.00 - 2700.00 | Temp (°F)                                                     | 100.00 - 131.00 |
| S/N                                                                                                                                                     | A269341                                | NPT                       | 0.0               | <div>BHA Objective</div> <div>Drill 9 7/8" Intermediate</div> |                 |
| Nozzles                                                                                                                                                 | 7 x 14                                 |                           |                   |                                                               |                 |
| Total Flow Area (in²)                                                                                                                                   | 1.052                                  |                           |                   |                                                               |                 |
| Bit Type                                                                                                                                                | PDC (Polycrystalline Diamond Compacts) |                           |                   |                                                               |                 |
| Bit Distances                                                                                                                                           |                                        |                           |                   |                                                               |                 |
| Survey (Bit to Sensor): 69.00 ft, Gamma (Bit to Gamma): 54.00 ft                                                                                        |                                        |                           |                   |                                                               |                 |
| Mud Properties                                                                                                                                          |                                        |                           |                   |                                                               |                 |
| Type                                                                                                                                                    | Brine                                  |                           |                   |                                                               |                 |
| WT                                                                                                                                                      | 10.20                                  |                           |                   |                                                               |                 |
| VIS                                                                                                                                                     | 28.00                                  |                           |                   |                                                               |                 |
| PV                                                                                                                                                      | 1.00                                   |                           |                   |                                                               |                 |
| YP                                                                                                                                                      | 3.00                                   |                           |                   |                                                               |                 |
| POOH Reason/Notes                                                                                                                                       |                                        |                           |                   |                                                               |                 |
| Change Bottom Hole Assembly: WHEN MOTOR REACHED RIG FLOOR EVERYTHING LOOKED GREAT EXCEPT BIT WAS UNDER GAUGE                                            |                                        |                           |                   |                                                               |                 |
| Incident Notes                                                                                                                                          |                                        |                           |                   |                                                               |                 |
| Directional: BIT HAD DAMAGE AND OUT OF GAUGE                                                                                                            |                                        |                           |                   |                                                               |                 |
| MWD:                                                                                                                                                    |                                        |                           |                   |                                                               |                 |
| Comments                                                                                                                                                |                                        |                           |                   |                                                               |                 |
| Directional: 8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 9 5/8" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 0 Runs |                                        |                           |                   |                                                               |                 |
| MWD:                                                                                                                                                    |                                        |                           |                   |                                                               |                 |



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

**Mud Motor Report - BHA 3 (9 7/8 Intermediate)**

| Motor Details                                                                                                                                           |             | Date/Depth/Distances                   |                          | Hours                      |                     |               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------|--------------------------|----------------------------|---------------------|---------------|
| S/N                                                                                                                                                     | BDT-800-006 | Date In                                | 2021-06-14 01:00         | Downhole Hours             | 72.50               |               |
| Size (in)                                                                                                                                               | 8.0         | Depth In (ft)                          | 6642.00                  | Drilling/Circulating Hours | 54.00               |               |
| Lobe/Stage                                                                                                                                              | 7/8, 5.90   | Date Out                               | 2021-06-17 01:30         |                            |                     |               |
| Bend Angle                                                                                                                                              | 1.75        | Depth Out (ft)                         | 10019.00                 | Circulating Hours          | 14.17               |               |
| Speed (rev/gal)                                                                                                                                         | 0.15        | Total Drilled (ft)                     | 3377.00                  | Drilling Hours             | 39.83               |               |
| Wear Pad OD (in)                                                                                                                                        | 8.250       | Distance Slid (ft)                     | 164.00                   | Sliding Hours              | 9.58                |               |
| Manufacturer                                                                                                                                            | Butch's     | Distance Rotated (ft)                  | 3213.00                  | Rotating Hours             | 30.25               |               |
| Motor Results                                                                                                                                           |             | % Distance Sliding                     | 4.86%                    | % Hours Rotating           | 75.94%              |               |
| Motor Incident                                                                                                                                          |             | No                                     | % Distance Rotating      | 95.14%                     | % Hours Sliding     | 24.06%        |
| Average Total ROP (ft/h)                                                                                                                                |             | 84.78                                  | BHA Parameters           |                            |                     |               |
| Average Slide ROP (ft/h)                                                                                                                                |             | 17.11                                  | Flow Rate (gpm)          | 723.00 - 750.00            | Motor RPM           | 60.00 - 70.00 |
| Average Rotating ROP (ft/h)                                                                                                                             |             | 106.21                                 | Stalls                   | 0                          | Surface RPM         | 60.00 - 60.00 |
| Bit Details                                                                                                                                             |             | Stall Pressure (psi)                   |                          | 0.00                       | Rotating WOB (klbs) | 35.00 - 35.00 |
| OD (in)                                                                                                                                                 | 9.880       | On Bottom Pressure (psi)               | 2550.00 - 3750.00        | Sliding WOB (klbs)         | 15.00 - 15.00       |               |
| Vendor                                                                                                                                                  | Ultrerra    | Off Bottom Pressure (psi)              | 1950.00 - 3100.00        | Temp (°F)                  | 109.00 - 149.00     |               |
| S/N                                                                                                                                                     | 56248       | NPT                                    | 0.0                      |                            |                     |               |
| Nozzles                                                                                                                                                 | 6x15's      | BHA Objective                          |                          |                            |                     |               |
| Total Flow Area (in²)                                                                                                                                   |             | 1.035                                  | DRILL 9 7/8 INTERMEDIATE |                            |                     |               |
| Bit Type                                                                                                                                                |             | PDC (Polycrystalline Diamond Compacts) |                          |                            |                     |               |
| Bit Distances                                                                                                                                           |             |                                        |                          |                            |                     |               |
| Survey: 68.00 ft, Gamma: 53.00 ft                                                                                                                       |             |                                        |                          |                            |                     |               |
| Mud Properties                                                                                                                                          |             |                                        |                          |                            |                     |               |
| Type                                                                                                                                                    | Brine       |                                        |                          |                            |                     |               |
| WT                                                                                                                                                      | 10.30       |                                        |                          |                            |                     |               |
| VIS                                                                                                                                                     | 28.00       |                                        |                          |                            |                     |               |
| PV                                                                                                                                                      | 2.00        |                                        |                          |                            |                     |               |
| YP                                                                                                                                                      | 3.00        |                                        |                          |                            |                     |               |
| POOH Reason/Notes                                                                                                                                       |             |                                        |                          |                            |                     |               |
| Penetration Rate: WHEN MOTOR REACHED RIG FLOOR BEARINGS HAD SIGNIFICANT SLACK WHEN COMPRESSED                                                           |             |                                        |                          |                            |                     |               |
| Incident Notes                                                                                                                                          |             |                                        |                          |                            |                     |               |
| Directional: BIT WAS CORED OUT DBR                                                                                                                      |             |                                        |                          |                            |                     |               |
| MWD:                                                                                                                                                    |             |                                        |                          |                            |                     |               |
| Comments                                                                                                                                                |             |                                        |                          |                            |                     |               |
| Directional: 8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 9 5/8" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 0 Runs |             |                                        |                          |                            |                     |               |
| MWD:                                                                                                                                                    |             |                                        |                          |                            |                     |               |



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

**Mud Motor Report - BHA 4 (9 7/8 Intermediate)**

| Motor Details                                                                                                                                           |                                        | Date/Depth/Distances      |                   | Hours                      |                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------|-------------------|----------------------------|-----------------|
| S/N                                                                                                                                                     | BDT-800-004                            | Date In                   | 2021-06-17 02:00  | Downhole Hours             | 25.50           |
| Size (in)                                                                                                                                               | 8.0                                    | Depth In (ft)             | 10019.00          | Drilling/Circulating Hours | 15.25           |
| Lobe/Stage                                                                                                                                              | 7/8, 5.90                              | Date Out                  | 2021-06-18 03:30  |                            |                 |
| Bend Angle                                                                                                                                              | 1.75                                   | Depth Out (ft)            | 10645.00          | Circulating Hours          | 1.92            |
| Speed (rev/gal)                                                                                                                                         | 0.15                                   | Total Drilled (ft)        | 626.00            | Drilling Hours             | 13.33           |
| Wear Pad OD (in)                                                                                                                                        | 8.250                                  | Distance Slid (ft)        | 32.00             | Sliding Hours              | 2.58            |
| Manufacturer                                                                                                                                            | Butch's                                | Distance Rotated (ft)     | 594.00            | Rotating Hours             | 10.75           |
| Motor Results                                                                                                                                           |                                        | % Distance Sliding        | 5.11%             | % Hours Rotating           | 80.62%          |
| Motor Incident                                                                                                                                          | No                                     | % Distance Rotating       | 94.89%            | % Hours Sliding            | 19.37%          |
| Average Total ROP (ft/h)                                                                                                                                | 46.95                                  | BHA Parameters            |                   |                            |                 |
| Average Slide ROP (ft/h)                                                                                                                                | 12.39                                  | Flow Rate (gpm)           | 747.00 - 750.00   | Motor RPM                  | 60.00 - 70.00   |
| Average Rotating ROP (ft/h)                                                                                                                             | 55.26                                  | Stalls                    | 0                 | Surface RPM                | 60.00 - 60.00   |
| Bit Details                                                                                                                                             |                                        | Stall Pressure (psi)      | 0.00              | Rotating WOB (klbs)        | 35.00 - 35.00   |
| OD (in)                                                                                                                                                 | 9.880                                  | On Bottom Pressure (psi)  | 3500.00 - 3750.00 | Sliding WOB (klbs)         | 15.00 - 15.00   |
| Vendor                                                                                                                                                  | Halliburton                            | Off Bottom Pressure (psi) | 2950.00 - 3100.00 | Temp (°F)                  | 134.00 - 154.00 |
| S/N                                                                                                                                                     | 13478553                               | NPT                       | 0.0               |                            |                 |
| Nozzles                                                                                                                                                 | 9x12's                                 | BHA Objective             |                   |                            |                 |
| Total Flow Area (in²)                                                                                                                                   | 0.994                                  | DRILL 9 7/8 INTERMEDIATE  |                   |                            |                 |
| Bit Type                                                                                                                                                | PDC (Polycrystalline Diamond Compacts) |                           |                   |                            |                 |
| Bit Distances                                                                                                                                           |                                        |                           |                   |                            |                 |
| Survey: 68.00 ft, Gamma: 53.00 ft                                                                                                                       |                                        |                           |                   |                            |                 |
| Mud Properties                                                                                                                                          |                                        |                           |                   |                            |                 |
| Type                                                                                                                                                    | Brine                                  |                           |                   |                            |                 |
| WT                                                                                                                                                      | 10.20                                  |                           |                   |                            |                 |
| VIS                                                                                                                                                     | 28.00                                  |                           |                   |                            |                 |
| PV                                                                                                                                                      | 1.00                                   |                           |                   |                            |                 |
| YP                                                                                                                                                      | 3.00                                   |                           |                   |                            |                 |
| POOH Reason/Notes                                                                                                                                       |                                        |                           |                   |                            |                 |
| Total Depth/Casing Point: WHEN MOTOR REACHED RIG FLOOR LITTLE SLACK IN BEARINGS WITH WEAR TO KP                                                         |                                        |                           |                   |                            |                 |
| Incident Notes                                                                                                                                          |                                        |                           |                   |                            |                 |
| Directional: BIT HAD 3 PLUGGED JETS WITH DAMAGE TO OUTSIDE CUTTERS                                                                                      |                                        |                           |                   |                            |                 |
| MWD:                                                                                                                                                    |                                        |                           |                   |                            |                 |
| Comments                                                                                                                                                |                                        |                           |                   |                            |                 |
| Directional: 8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 9 5/8" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 0 Runs |                                        |                           |                   |                            |                 |
| MWD:                                                                                                                                                    |                                        |                           |                   |                            |                 |

|                                                                                   |                                 |                                                     |                      |                                                       |
|-----------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------|----------------------|-------------------------------------------------------|
|  | <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          |                      | <b>Rig Name</b><br>Nabors X50                         |
|                                                                                   | <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           |                      | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
|                                                                                   | <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea | <b>Company Man</b>                                    |

**Mud Motor Report - BHA 5 (6.75" INTERMEDIATE)**

| Motor Details                                                                                                                                         |                                        | Date/Depth/Distances      |                   | Hours                      |                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------|-------------------|----------------------------|-----------------|
| S/N                                                                                                                                                   | LS-475-41                              | Date In                   | 2021-06-20 00:30  | Downhole Hours             | 40.00           |
| Size (in)                                                                                                                                             | 5.0                                    | Depth In (ft)             | 10645.00          | Drilling/Circulating Hours | 26.00           |
| Lobe/Stage                                                                                                                                            | 6/7, 7.00                              | Date Out                  | 2021-06-21 16:30  |                            |                 |
| Bend Angle                                                                                                                                            | 1.5                                    | Depth Out (ft)            | 11660.00          | Circulating Hours          | 4.75            |
| Speed (rev/gal)                                                                                                                                       | 0.82                                   | Total Drilled (ft)        | 1015.00           | Drilling Hours             | 21.25           |
| Wear Pad OD (in)                                                                                                                                      | 5.270                                  | Distance Slid (ft)        | 44.00             | Sliding Hours              | 2.50            |
| Manufacturer                                                                                                                                          | Butch's                                | Distance Rotated (ft)     | 971.00            | Rotating Hours             | 18.75           |
| Motor Results                                                                                                                                         |                                        | % Distance Sliding        | 4.33%             | % Hours Rotating           | 88.24%          |
| Motor Incident                                                                                                                                        | No                                     | % Distance Rotating       | 95.67%            | % Hours Sliding            | 11.76%          |
| Average Total ROP (ft/h)                                                                                                                              | 47.76                                  | BHA Parameters            |                   |                            |                 |
| Average Slide ROP (ft/h)                                                                                                                              | 17.60                                  | Flow Rate (gpm)           | 225.00 - 225.00   | Motor RPM                  | 185.00 - 202.00 |
| Average Rotating ROP (ft/h)                                                                                                                           | 51.79                                  | Stalls                    | 5                 | Surface RPM                | 30.00 - 30.00   |
| Bit Details                                                                                                                                           |                                        | Stall Pressure (psi)      | 1550.02           | Rotating WOB (klbs)        | 20.00 - 20.00   |
| OD (in)                                                                                                                                               | 6.750                                  | On Bottom Pressure (psi)  | 2200.00 - 2550.00 | Sliding WOB (klbs)         | 12.00 - 12.00   |
| Vendor                                                                                                                                                | Ultrerra                               | Off Bottom Pressure (psi) | 1500.00 - 1500.00 | Temp (°F)                  | 90.00 - 120.00  |
| S/N                                                                                                                                                   | 35404                                  | NPT                       | 0.0               |                            |                 |
| Nozzles                                                                                                                                               | 3x14's 3x16's                          | BHA Objective             |                   |                            |                 |
| Total Flow Area (in²)                                                                                                                                 | 1.040                                  | DRILL TO KOP              |                   |                            |                 |
| Bit Type                                                                                                                                              | PDC (Polycrystalline Diamond Compacts) |                           |                   |                            |                 |
| Bit Distances                                                                                                                                         |                                        |                           |                   |                            |                 |
| Survey: 64.00 ft, Gamma: 49.00 ft                                                                                                                     |                                        |                           |                   |                            |                 |
| Mud Properties                                                                                                                                        |                                        |                           |                   |                            |                 |
| Type                                                                                                                                                  | Oil Based                              |                           |                   |                            |                 |
| WT                                                                                                                                                    | 10.00                                  |                           |                   |                            |                 |
| VIS                                                                                                                                                   | 58.00                                  |                           |                   |                            |                 |
| PV                                                                                                                                                    | 16.00                                  |                           |                   |                            |                 |
| YP                                                                                                                                                    | 7.00                                   |                           |                   |                            |                 |
| POOH Reason/Notes                                                                                                                                     |                                        |                           |                   |                            |                 |
| Change Bottom Hole Assembly: N/A                                                                                                                      |                                        |                           |                   |                            |                 |
| Incident Notes                                                                                                                                        |                                        |                           |                   |                            |                 |
| Directional: N/A                                                                                                                                      |                                        |                           |                   |                            |                 |
| MWD:                                                                                                                                                  |                                        |                           |                   |                            |                 |
| Comments                                                                                                                                              |                                        |                           |                   |                            |                 |
| Directional: 5" Motor: 1.5° FBH 6/7 7.0 Stg Mtr w/ 6 1/2" Stab, Flow Range: 150-360 gpm, Max Diff: 1750 psi, Max Torque: 4665ft/lbs, Bit Runs: 3 Runs |                                        |                           |                   |                            |                 |
| MWD:                                                                                                                                                  |                                        |                           |                   |                            |                 |



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

**Mud Motor Report - BHA 6 (6.75" CURVE)**

| Motor Details                                                                                  |                                        | Date/Depth/Distances      | Hours             |
|------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------|-------------------|
| S/N                                                                                            | 500-40-002-AIM                         | Date In                   | 2021-06-21 17:45  |
| Size (in)                                                                                      | 5.0                                    | Depth In (ft)             | 11660.00          |
| Lobe/Stage                                                                                     | 7/8, 5.00                              | Date Out                  | 2021-06-22 23:15  |
| Bend Angle                                                                                     | 2.12                                   | Depth Out (ft)            | 12560.00          |
| Speed (rev/gal)                                                                                | 0.64                                   | Total Drilled (ft)        | 900.00            |
| Wear Pad OD (in)                                                                               | 5.320                                  | Distance Slid (ft)        | 512.00            |
| Manufacturer                                                                                   | Contender                              | Distance Rotated (ft)     | 388.00            |
| <b>Motor Results</b>                                                                           |                                        | % Distance Sliding        | 56.89%            |
| Motor Incident                                                                                 | No                                     | % Distance Rotating       | 43.11%            |
| Average Total ROP (ft/h)                                                                       | 63.16                                  |                           |                   |
| Average Slide ROP (ft/h)                                                                       | 55.85                                  | <b>BHA Parameters</b>     |                   |
| Average Rotating ROP (ft/h)                                                                    | 76.33                                  | Flow Rate (gpm)           | 225.00 - 300.00   |
| <b>Bit Details</b>                                                                             |                                        | Stalls                    | 0                 |
| OD (in)                                                                                        | 6.750                                  | Stall Pressure (psi)      | 0.00              |
| Vendor                                                                                         | Ultrerra                               | On Bottom Pressure (psi)  | 2200.00 - 3600.00 |
| S/N                                                                                            | 56011                                  | Off Bottom Pressure (psi) | 1500.00 - 2700.00 |
| Nozzles                                                                                        | 6x15's                                 | NPT                       | 0.0               |
| Total Flow Area (in <sup>2</sup> )                                                             | 1.035                                  | <b>BHA Objective</b>      |                   |
| Bit Type                                                                                       | PDC (Polycrystalline Diamond Compacts) | BUILD CURVE               |                   |
| <b>Bit Distances</b>                                                                           |                                        |                           |                   |
| Survey: 54.00 ft, Gamma: 39.00 ft                                                              |                                        |                           |                   |
| <b>Mud Properties</b>                                                                          |                                        |                           |                   |
| Type                                                                                           | Oil Based                              |                           |                   |
| WT                                                                                             | 10.50                                  |                           |                   |
| VIS                                                                                            | 68.00                                  |                           |                   |
| PV                                                                                             | 16.00                                  |                           |                   |
| YP                                                                                             | 8.00                                   |                           |                   |
| <b>POOH Reason/Notes</b>                                                                       |                                        |                           |                   |
| Change Bottom Hole Assembly: WHEN MOTOR REACHED RIG FLOOR EVERYTHING LOOKED AS EXPECTED        |                                        |                           |                   |
| <b>Incident Notes</b>                                                                          |                                        |                           |                   |
| Directional: NONE                                                                              |                                        |                           |                   |
| MWD:                                                                                           |                                        |                           |                   |
| <b>Comments</b>                                                                                |                                        |                           |                   |
| Directional: Flow Range: 150-300 gpm, Max Diff: 1180 psi, Max Torque: 4670 ft/lbs, Bit Runs: 1 |                                        |                           |                   |
| MWD:                                                                                           |                                        |                           |                   |

|                                                                                   |                                 |                                                     |                      |                                                       |
|-----------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------|----------------------|-------------------------------------------------------|
|  | <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          |                      | <b>Rig Name</b><br>Nabors X50                         |
|                                                                                   | <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           |                      | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
|                                                                                   | <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea | <b>Company Man</b>                                    |

**Mud Motor Report - BHA 7 (6.75" LATERAL)**

| Motor Details                                                                                                             |                                        | Date/Depth/Distances      |                   | Hours                      |                 |
|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------|-------------------|----------------------------|-----------------|
| S/N                                                                                                                       | BPG24750107                            | Date In                   | 2021-06-23 01:00  | Downhole Hours             | 51.50           |
| Size (in)                                                                                                                 | 5.0                                    | Depth In (ft)             | 12560.00          | Drilling/Circulating Hours | 31.00           |
| Lobe/Stage                                                                                                                | 6/7, 8.00                              | Date Out                  | 2021-06-25 04:30  |                            |                 |
| Bend Angle                                                                                                                | 1.75                                   | Depth Out (ft)            | 16724.00          | Circulating Hours          | 1.42            |
| Speed (rev/gal)                                                                                                           | 0.81                                   | Total Drilled (ft)        | 4164.00           | Drilling Hours             | 29.58           |
| Wear Pad OD (in)                                                                                                          | 5.480                                  | Distance Slid (ft)        | 604.00            | Sliding Hours              | 11.42           |
| Manufacturer                                                                                                              | Bico                                   | Distance Rotated (ft)     | 3560.00           | Rotating Hours             | 18.17           |
| Motor Results                                                                                                             |                                        | % Distance Sliding        | 14.51%            | % Hours Rotating           | 61.41%          |
| Motor Incident                                                                                                            | Yes                                    | % Distance Rotating       | 85.49%            | % Hours Sliding            | 38.59%          |
| Average Total ROP (ft/h)                                                                                                  | 140.75                                 | BHA Parameters            |                   |                            |                 |
| Average Slide ROP (ft/h)                                                                                                  | 52.91                                  | Flow Rate (gpm)           | 298.00 - 300.00   | Motor RPM                  | 243.00 - 313.00 |
| Average Rotating ROP (ft/h)                                                                                               | 195.96                                 | Stalls                    | 2                 | Surface RPM                | 40.00 - 70.00   |
| Bit Details                                                                                                               |                                        | Stall Pressure (psi)      | 2199.93           | Rotating WOB (klbs)        | 20.00 - 35.00   |
| OD (in)                                                                                                                   | 6.750                                  | On Bottom Pressure (psi)  | 3700.00 - 4500.00 | Sliding WOB (klbs)         | 20.00 - 30.00   |
| Vendor                                                                                                                    | REED                                   | Off Bottom Pressure (psi) | 3050.00 - 3200.00 | Temp (°F)                  | 120.00 - 140.00 |
| S/N                                                                                                                       | A257707                                | NPT                       | 0.0               |                            |                 |
| Nozzles                                                                                                                   | 6x16's                                 | BHA Objective             |                   |                            |                 |
| Total Flow Area (in²)                                                                                                     | 1.178                                  | DRILL LATERAL             |                   |                            |                 |
| Bit Type                                                                                                                  | PDC (Polycrystalline Diamond Compacts) |                           |                   |                            |                 |
| Bit Distances                                                                                                             |                                        |                           |                   |                            |                 |
| Survey: 57.00 ft, Gamma: 42.00 ft                                                                                         |                                        |                           |                   |                            |                 |
| Mud Properties                                                                                                            |                                        |                           |                   |                            |                 |
| Type                                                                                                                      | Oil Based                              |                           |                   |                            |                 |
| WT                                                                                                                        | 11.00                                  |                           |                   |                            |                 |
| VIS                                                                                                                       | 60.00                                  |                           |                   |                            |                 |
| PV                                                                                                                        | 15.00                                  |                           |                   |                            |                 |
| YP                                                                                                                        | 10.00                                  |                           |                   |                            |                 |
| POOH Reason/Notes                                                                                                         |                                        |                           |                   |                            |                 |
| Downhole Motor Incident: N/A                                                                                              |                                        |                           |                   |                            |                 |
| Incident Notes                                                                                                            |                                        |                           |                   |                            |                 |
| Directional: MOTOR STALLED TWICE AFTER ROP DROPPED OFF, BIT WAS RUNG OUT AND MOTOR DRAINED BUT BIT BOX WOULD SPIN FREELY. |                                        |                           |                   |                            |                 |
| MWD:                                                                                                                      |                                        |                           |                   |                            |                 |
| Comments                                                                                                                  |                                        |                           |                   |                            |                 |
| Directional: Flow Range: 150-350 gpm, Max Diff: 2400 psi, Max Torque: 7632 ft/lbs, Bit Runs: 1                            |                                        |                           |                   |                            |                 |
| MWD:                                                                                                                      |                                        |                           |                   |                            |                 |

|                                                                                   |                                 |                                                     |                      |                                                       |
|-----------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------|----------------------|-------------------------------------------------------|
|  | <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          |                      | <b>Rig Name</b><br>Nabors X50                         |
|                                                                                   | <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           |                      | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
|                                                                                   | <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea | <b>Company Man</b>                                    |

**Mud Motor Report - BHA 8 (6.75" LATERAL)**

| Motor Details                                                                                  |                                        | Date/Depth/Distances      |                   | Hours                      |                 |
|------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------|-------------------|----------------------------|-----------------|
| S/N                                                                                            | BPG24750143                            | Date In                   | 2021-06-25 06:30  | Downhole Hours             | 87.50           |
| Size (in)                                                                                      | 5.0                                    | Depth In (ft)             | 16724.00          | Drilling/Circulating Hours | 51.00           |
| Lobe/Stage                                                                                     | 6/7, 8.00                              | Date Out                  | 2021-06-28 22:00  |                            |                 |
| Bend Angle                                                                                     | 1.75                                   | Depth Out (ft)            | 20310.00          | Circulating Hours          | 8.42            |
| Speed (rev/gal)                                                                                | 0.81                                   | Total Drilled (ft)        | 3586.00           | Drilling Hours             | 42.58           |
| Wear Pad OD (in)                                                                               | 5.480                                  | Distance Slid (ft)        | 701.00            | Sliding Hours              | 21.83           |
| Manufacturer                                                                                   | Bico                                   | Distance Rotated (ft)     | 2885.00           | Rotating Hours             | 20.75           |
| Motor Results                                                                                  |                                        | % Distance Sliding        | 19.55%            | % Hours Rotating           | 48.73%          |
| Motor Incident                                                                                 | No                                     | % Distance Rotating       | 80.45%            | % Hours Sliding            | 51.27%          |
| Average Total ROP (ft/h)                                                                       | 84.21                                  | BHA Parameters            |                   |                            |                 |
| Average Slide ROP (ft/h)                                                                       | 32.11                                  | Flow Rate (gpm)           | 275.00 - 275.00   | Motor RPM                  | 0.00 - 0.00     |
| Average Rotating ROP (ft/h)                                                                    | 139.04                                 | Stalls                    | 0                 | Surface RPM                | 40.00 - 40.00   |
| Bit Details                                                                                    |                                        | Stall Pressure (psi)      | 2399.94           | Rotating WOB (klbs)        | 25.00 - 37.00   |
| OD (in)                                                                                        | 6.750                                  | On Bottom Pressure (psi)  | 3850.00 - 4550.00 | Sliding WOB (klbs)         | 40.00 - 50.00   |
| Vendor                                                                                         | REED                                   | Off Bottom Pressure (psi) | 3350.00 - 4200.00 | Temp (°F)                  | 186.00 - 192.00 |
| S/N                                                                                            | A257713                                | NPT                       | 0.0               |                            |                 |
| Nozzles                                                                                        | 6x15's                                 | BHA Objective             |                   |                            |                 |
| Total Flow Area (in²)                                                                          | 1.035                                  | Drill Lateral             |                   |                            |                 |
| Bit Type                                                                                       | PDC (Polycrystalline Diamond Compacts) |                           |                   |                            |                 |
| Bit Distances                                                                                  |                                        |                           |                   |                            |                 |
| Survey: 57.00 ft, Gamma: 42.00 ft                                                              |                                        |                           |                   |                            |                 |
| Mud Properties                                                                                 |                                        |                           |                   |                            |                 |
| Type                                                                                           | Oil Based                              |                           |                   |                            |                 |
| WT                                                                                             | 11.30                                  |                           |                   |                            |                 |
| VIS                                                                                            | 66.00                                  |                           |                   |                            |                 |
| PV                                                                                             | 22.00                                  |                           |                   |                            |                 |
| YP                                                                                             | 12.00                                  |                           |                   |                            |                 |
| POOH Reason/Notes                                                                              |                                        |                           |                   |                            |                 |
| Total Depth/Casing Point: N/A                                                                  |                                        |                           |                   |                            |                 |
| Incident Notes                                                                                 |                                        |                           |                   |                            |                 |
| Directional: N/A                                                                               |                                        |                           |                   |                            |                 |
| MWD:                                                                                           |                                        |                           |                   |                            |                 |
| Comments                                                                                       |                                        |                           |                   |                            |                 |
| Directional: Flow Range: 150-350 gpm, Max Diff: 2400 psi, Max Torque: 7632 ft/lbs, Bit Runs: 3 |                                        |                           |                   |                            |                 |
| MWD:                                                                                           |                                        |                           |                   |                            |                 |



# Slide/Rotate Reports

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## Dagger State Com 804H (WT-21-069)

2021-06-01 to 2021-07-02

Lea, New Mexico, US (32.45, -103.62)

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|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
| <b>Company Man</b>              |                                                     |                                                       |

**Slide/Rotate Report - BHA #1 (BHA #1 - 14.75" Surface)**

| Activity | Start Date | Start Time | End Time | End Date | Hours | Start Depth (ft) | End Depth (ft) | Distance (ft) | RoP (ft/h) | Toolface | Flow Rate (gpm) | Surface RPM | WOB (klbs) | Press On (psi) | Press Off (psi) | Hole Section Type     |
|----------|------------|------------|----------|----------|-------|------------------|----------------|---------------|------------|----------|-----------------|-------------|------------|----------------|-----------------|-----------------------|
| Rotate   | 06-11      | 00:00      | 00:35    | 06-11    | 0.58  | 120.00           | 268.00         | 148.00        | 253.71     | N/A      | 500.00          | 40.0        | 2.00       | 750.00         | 450.00          | Surface               |
| Rotate   | 06-11      | 00:40      | 01:05    | 06-11    | 0.42  | 268.00           | 392.00         | 124.00        | 297.60     | N/A      | 500.00          | 40.0        | 2.00       | 750.00         | 450.00          | Surface               |
| Rotate   | 06-11      | 01:10      | 01:30    | 06-11    | 0.33  | 392.00           | 485.00         | 93.00         | 279.00     | N/A      | 500.00          | 40.0        | 2.00       | 750.00         | 450.00          | Surface               |
| Rotate   | 06-11      | 01:35      | 01:50    | 06-11    | 0.25  | 485.00           | 579.00         | 94.00         | 376.00     | N/A      | 800.00          | 40.0        | 17.00      | 1450.00        | 1000.00         | Surface               |
| Rotate   | 06-11      | 01:55      | 02:10    | 06-11    | 0.25  | 579.00           | 672.00         | 93.00         | 372.00     | N/A      | 800.00          | 40.0        | 17.00      | 1450.00        | 1000.00         | Surface               |
| Rotate   | 06-11      | 02:15      | 02:30    | 06-11    | 0.25  | 672.00           | 765.00         | 93.00         | 372.00     | N/A      | 800.00          | 40.0        | 17.00      | 1450.00        | 1000.00         | Surface               |
| Rotate   | 06-11      | 02:35      | 02:50    | 06-11    | 0.25  | 765.00           | 859.00         | 94.00         | 376.00     | N/A      | 800.00          | 40.0        | 17.00      | 1450.00        | 1000.00         | Surface               |
| Rotate   | 06-11      | 02:55      | 03:10    | 06-11    | 0.25  | 859.00           | 952.00         | 93.00         | 372.00     | N/A      | 800.00          | 40.0        | 17.00      | 1450.00        | 1000.00         | Surface               |
| Rotate   | 06-11      | 03:15      | 03:35    | 06-11    | 0.33  | 952.00           | 1045.00        | 93.00         | 279.00     | N/A      | 800.00          | 40.0        | 17.00      | 1450.00        | 1000.00         | Surface               |
| Rotate   | 06-11      | 03:40      | 04:05    | 06-11    | 0.42  | 1045.00          | 1138.00        | 93.00         | 223.20     | N/A      | 800.00          | 40.0        | 17.00      | 1450.00        | 1000.00         | Surface               |
| Rotate   | 06-11      | 04:10      | 04:30    | 06-11    | 0.33  | 1138.00          | 1232.00        | 94.00         | 282.00     | N/A      | 800.00          | 40.0        | 17.00      | 1450.00        | 1000.00         | Surface               |
| Rotate   | 06-11      | 04:45      | 05:05    | 06-11    | 0.33  | 1232.00          | 1325.00        | 93.00         | 279.00     | N/A      | 800.00          | 40.0        | 17.00      | 1450.00        | 1000.00         | Surface               |
| Rotate   | 06-11      | 05:10      | 05:25    | 06-11    | 0.25  | 1325.00          | 1415.00        | 90.00         | 360.00     | N/A      | 800.00          | 40.0        | 17.00      | 1450.00        | 1000.00         | Surface               |
| Rotate   | 06-11      | 05:45      | 06:05    | 06-11    | 0.33  | 1415.00          | 1504.00        | 89.00         | 267.00     | N/A      | 800.00          | 40.0        | 17.00      | 1450.00        | 1000.00         | Surface               |
| Rotate   | 06-11      | 06:10      | 06:40    | 06-11    | 0.5   | 1504.00          | 1585.00        | 81.00         | 162.00     | N/A      | 800.00          | 40.0        | 17.00      | 1450.00        | 1000.00         | Surface, Intermediate |



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
| <b>Company Man</b>              |                                                     |                                                       |

### Slide/Rotate Report - BHA #2 (9 7/8 Intermediate)

| Activity | Start Date | Start Time | End Time | End Date | Hours | Start Depth (ft) | End Depth (ft) | Distance (ft) | RoP (ft/h) | Toolface | Flow Rate (gpm) | Surface RPM | WOB (klbs) | Press On (psi) | Press Off (psi) | Hole Section Type |
|----------|------------|------------|----------|----------|-------|------------------|----------------|---------------|------------|----------|-----------------|-------------|------------|----------------|-----------------|-------------------|
| Rotate   | 06-12      | 08:05      | 09:25    | 06-12    | 1.33  | 1585.00          | 1709.00        | 124.00        | 93.00      | N/A      | 643.00          | 35.0        | 35.00      | 1800.00        | 1150.00         | Intermediate      |
| Rotate   | 06-12      | 09:30      | 09:50    | 06-12    | 0.33  | 1709.00          | 1804.00        | 95.00         | 285.00     | N/A      | 747.00          | 60.0        | 35.00      | 2000.00        | 1650.00         | Intermediate      |
| Rotate   | 06-12      | 09:55      | 10:15    | 06-12    | 0.33  | 1804.00          | 1899.00        | 95.00         | 285.00     | N/A      | 800.00          | 60.0        | 43.00      | 2425.00        | 1850.00         | Intermediate      |
| Rotate   | 06-12      | 10:20      | 10:50    | 06-12    | 0.5   | 1899.00          | 2088.00        | 189.00        | 378.00     | N/A      | 800.00          | 60.0        | 43.00      | 2425.00        | 1850.00         | Intermediate      |
| Rotate   | 06-12      | 10:55      | 11:10    | 06-12    | 0.25  | 2088.00          | 2183.00        | 95.00         | 380.00     | N/A      | 800.00          | 60.0        | 43.00      | 2425.00        | 1850.00         | Intermediate      |
| Rotate   | 06-12      | 11:15      | 11:25    | 06-12    | 0.17  | 2183.00          | 2278.00        | 95.00         | 570.00     | N/A      | 800.00          | 60.0        | 43.00      | 2425.00        | 1850.00         | Intermediate      |
| Rotate   | 06-12      | 11:30      | 11:45    | 06-12    | 0.25  | 2278.00          | 2374.00        | 96.00         | 384.00     | N/A      | 800.00          | 60.0        | 47.00      | 2425.00        | 1850.00         | Intermediate      |
| Rotate   | 06-12      | 11:50      | 12:05    | 06-12    | 0.25  | 2374.00          | 2470.00        | 96.00         | 384.00     | N/A      | 800.00          | 60.0        | 47.00      | 2425.00        | 1850.00         | Intermediate      |
| Rotate   | 06-12      | 12:10      | 12:20    | 06-12    | 0.17  | 2470.00          | 2564.00        | 94.00         | 564.00     | N/A      | 800.00          | 60.0        | 47.00      | 2425.00        | 1850.00         | Intermediate      |
| Rotate   | 06-12      | 12:25      | 12:40    | 06-12    | 0.25  | 2564.00          | 2658.00        | 94.00         | 376.00     | N/A      | 800.00          | 60.0        | 47.00      | 2425.00        | 1850.00         | Intermediate      |
| Rotate   | 06-12      | 12:45      | 13:00    | 06-12    | 0.25  | 2658.00          | 2752.00        | 94.00         | 376.00     | N/A      | 800.00          | 60.0        | 47.00      | 2550.00        | 1850.00         | Intermediate      |
| Rotate   | 06-12      | 13:05      | 13:20    | 06-12    | 0.25  | 2752.00          | 2846.00        | 94.00         | 376.00     | N/A      | 800.00          | 60.0        | 47.00      | 2550.00        | 1850.00         | Intermediate      |
| Rotate   | 06-12      | 13:25      | 13:35    | 06-12    | 0.17  | 2846.00          | 2860.00        | 14.00         | 84.00      | N/A      | 800.00          | 60.0        | 47.00      | 2550.00        | 1850.00         | Intermediate      |
| Slide    | 06-12      | 13:35      | 13:45    | 06-12    | 0.17  | 2860.00          | 2878.00        | 18.00         | 108.00     | 210.0    | 800.00          | N/A         | 20.00      | 2750.00        | 2100.00         | Intermediate      |
| Rotate   | 06-12      | 13:45      | 13:55    | 06-12    | 0.17  | 2878.00          | 2942.00        | 64.00         | 384.00     | N/A      | 800.00          | 60.0        | 47.00      | 2550.00        | 1850.00         | Intermediate      |
| Rotate   | 06-12      | 14:00      | 14:15    | 06-12    | 0.25  | 2942.00          | 3036.00        | 94.00         | 376.00     | N/A      | 800.00          | 60.0        | 50.00      | 2800.00        | 2100.00         | Intermediate      |
| Rotate   | 06-12      | 14:20      | 14:25    | 06-12    | 0.08  | 3036.00          | 3050.00        | 14.00         | 168.00     | N/A      | 800.00          | 60.0        | 50.00      | 2800.00        | 2100.00         | Intermediate      |
| Slide    | 06-12      | 14:25      | 14:50    | 06-12    | 0.42  | 3050.00          | 3068.00        | 18.00         | 43.20      | 310.0    | 800.00          | N/A         | 20.00      | 2750.00        | 2100.00         | Intermediate      |
| Rotate   | 06-12      | 14:50      | 15:00    | 06-12    | 0.17  | 3068.00          | 3129.00        | 61.00         | 366.00     | N/A      | 800.00          | 60.0        | 50.00      | 2800.00        | 2100.00         | Intermediate      |
| Rotate   | 06-12      | 15:05      | 15:15    | 06-12    | 0.17  | 3129.00          | 3145.00        | 16.00         | 96.00      | N/A      | 800.00          | 60.0        | 50.00      | 2800.00        | 2100.00         | Intermediate      |
| Slide    | 06-12      | 15:15      | 15:35    | 06-12    | 0.33  | 3145.00          | 3165.00        | 20.00         | 60.00      | 310.0    | 800.00          | N/A         | 20.00      | 2750.00        | 2100.00         | Intermediate      |
| Rotate   | 06-12      | 15:35      | 15:45    | 06-12    | 0.17  | 3165.00          | 3221.00        | 56.00         | 336.00     | N/A      | 800.00          | 60.0        | 50.00      | 2800.00        | 2100.00         | Intermediate      |
| Rotate   | 06-12      | 15:50      | 16:05    | 06-12    | 0.25  | 3221.00          | 3314.00        | 93.00         | 372.00     | N/A      | 800.00          | 60.0        | 50.00      | 2800.00        | 2100.00         | Intermediate      |
| Rotate   | 06-12      | 16:10      | 16:30    | 06-12    | 0.33  | 3314.00          | 3408.00        | 94.00         | 282.00     | N/A      | 800.00          | 60.0        | 50.00      | 2800.00        | 2100.00         | Intermediate      |
| Rotate   | 06-12      | 16:35      | 16:55    | 06-12    | 0.33  | 3408.00          | 3501.00        | 93.00         | 279.00     | N/A      | 800.00          | 60.0        | 50.00      | 2800.00        | 2100.00         | Intermediate      |
| Rotate   | 06-12      | 17:00      | 17:30    | 06-12    | 0.5   | 3501.00          | 3594.00        | 93.00         | 186.00     | N/A      | 800.00          | 60.0        | 50.00      | 2800.00        | 2100.00         | Intermediate      |
| Rotate   | 06-12      | 17:35      | 17:55    | 06-12    | 0.33  | 3594.00          | 3687.00        | 93.00         | 279.00     | N/A      | 800.00          | 60.0        | 50.00      | 2800.00        | 2100.00         | Intermediate      |
| Rotate   | 06-12      | 17:55      | 18:30    | 06-12    | 0.58  | 3687.00          | 3782.00        | 95.00         | 162.86     | N/A      | 800.00          | 60.0        | 50.00      | 2800.00        | 2100.00         | Intermediate      |
| Rotate   | 06-12      | 18:35      | 19:05    | 06-12    | 0.5   | 3782.00          | 3878.00        | 96.00         | 192.00     | N/A      | 800.00          | 60.0        | 50.00      | 2800.00        | 2100.00         | Intermediate      |
| Rotate   | 06-12      | 19:45      | 20:05    | 06-12    | 0.33  | 3878.00          | 3971.00        | 93.00         | 279.00     | N/A      | 800.00          | 60.0        | 50.00      | 2800.00        | 2100.00         | Intermediate      |
| Rotate   | 06-12      | 20:10      | 20:35    | 06-12    | 0.42  | 3971.00          | 4062.00        | 91.00         | 218.40     | N/A      | 800.00          | 60.0        | 50.00      | 2800.00        | 2100.00         | Intermediate      |
| Rotate   | 06-12      | 20:35      | 21:00    | 06-12    | 0.42  | 4062.00          | 4157.00        | 95.00         | 228.00     | N/A      | 800.00          | 60.0        | 50.00      | 2800.00        | 2100.00         | Intermediate      |
| Rotate   | 06-12      | 21:05      | 21:20    | 06-12    | 0.25  | 4157.00          | 4187.00        | 30.00         | 120.00     | N/A      | 800.00          | 60.0        | 50.00      | 2800.00        | 2100.00         | Intermediate      |
| Slide    | 06-12      | 21:20      | 21:55    | 06-12    | 0.58  | 4187.00          | 4207.00        | 20.00         | 34.29      | 190.0    | 700.00          | N/A         | 15.00      | 2000.00        | 1750.00         | Intermediate      |
| Rotate   | 06-12      | 21:55      | 22:10    | 06-12    | 0.25  | 4207.00          | 4250.00        | 43.00         | 172.00     | N/A      | 700.00          | 60.0        | 50.00      | 2800.00        | 2100.00         | Intermediate      |
| Rotate   | 06-12      | 22:10      | 22:30    | 06-12    | 0.33  | 4250.00          | 4343.00        | 93.00         | 279.00     | N/A      | 700.00          | 60.0        | 50.00      | 2800.00        | 2100.00         | Intermediate      |
| Rotate   | 06-12      | 22:35      | 23:05    | 06-12    | 0.5   | 4343.00          | 4438.00        | 95.00         | 190.00     | N/A      | 700.00          | 60.0        | 50.00      | 2800.00        | 2100.00         | Intermediate      |
| Rotate   | 06-12      | 23:10      | 23:35    | 06-12    | 0.42  | 4438.00          | 4532.00        | 94.00         | 225.60     | N/A      | 700.00          | 60.0        | 50.00      | 2800.00        | 2100.00         | Intermediate      |
| Rotate   | 06-12      | 23:35      | 00:00    | 06-13    | 0.42  | 4532.00          | 4626.00        | 94.00         | 225.60     | N/A      | 700.00          | 60.0        | 50.00      | 2800.00        | 2100.00         | Intermediate      |
| Rotate   | 06-13      | 00:05      | 00:45    | 06-13    | 0.67  | 4626.00          | 4721.00        | 95.00         | 142.50     | N/A      |                 |             |            |                |                 | Intermediate      |
| Rotate   | 06-13      | 00:50      | 01:40    | 06-13    | 0.83  | 4721.00          | 4815.00        | 94.00         | 112.80     | N/A      | 700.00          | 70.0        | 22.00      | 2400.00        | 1800.00         | Intermediate      |
| Rotate   | 06-13      | 01:45      | 02:30    | 06-13    | 0.75  | 4815.00          | 4908.00        | 93.00         | 124.00     | N/A      | 700.00          | 70.0        | 22.00      | 2400.00        | 1800.00         | Intermediate      |
| Rotate   | 06-13      | 02:35      | 03:10    | 06-13    | 0.58  | 4908.00          | 5003.00        | 95.00         | 162.86     | N/A      | 700.00          | 70.0        | 22.00      | 2400.00        | 1800.00         | Intermediate      |
| Rotate   | 06-13      | 03:15      | 03:50    | 06-13    | 0.58  | 5003.00          | 5098.00        | 95.00         | 162.86     | N/A      | 700.00          | 70.0        | 22.00      | 2400.00        | 1800.00         | Intermediate      |
| Rotate   | 06-13      | 03:55      | 04:25    | 06-13    | 0.5   | 5098.00          | 5192.00        | 94.00         | 188.00     | N/A      | 700.00          | 70.0        | 22.00      | 2400.00        | 1800.00         | Intermediate      |
| Rotate   | 06-13      | 04:30      | 04:50    | 06-13    | 0.33  | 5192.00          | 5287.00        | 95.00         | 285.00     | N/A      | 800.00          | 60.0        | 15.00      | 3200.00        | 2700.00         | Intermediate      |
| Rotate   | 06-13      | 04:55      | 05:00    | 06-13    | 0.08  | 5287.00          | 5305.00        | 18.00         | 216.00     | N/A      | 800.00          | 60.0        | 15.00      | 3200.00        | 2700.00         | Intermediate      |
| Slide    | 06-13      | 05:00      | 05:20    | 06-13    | 0.33  | 5305.00          | 5320.00        | 15.00         | 45.00      | 90.0     | 800.00          | N/A         | 15.00      | 2900.00        | 2700.00         | Intermediate      |
| Rotate   | 06-13      | 05:20      | 05:40    | 06-13    | 0.33  | 5320.00          | 5381.00        | 61.00         | 183.00     | N/A      | 800.00          | 60.0        | 15.00      | 3200.00        | 2700.00         | Intermediate      |
| Rotate   | 06-13      | 05:45      | 06:00    | 06-13    | 0.25  | 5381.00          | 5476.00        | 95.00         | 380.00     | N/A      | 800.00          | 60.0        | 15.00      | 3200.00        | 2700.00         | Intermediate      |
| Rotate   | 06-13      | 06:05      | 06:35    | 06-13    | 0.5   | 5476.00          | 5569.00        | 93.00         | 186.00     | N/A      | 800.00          | 60.0        | 15.00      | 3200.00        | 2700.00         | Intermediate      |
| Rotate   | 06-13      | 06:40      | 07:00    | 06-13    | 0.33  | 5569.00          | 5663.00        | 94.00         | 282.00     | N/A      | 800.00          | 60.0        | 15.00      | 3200.00        | 2700.00         | Intermediate      |
| Rotate   | 06-13      | 07:05      | 07:15    | 06-13    | 0.17  | 5663.00          | 5675.00        | 12.00         | 72.00      | N/A      | 800.00          | 60.0        | 15.00      | 3200.00        | 2700.00         | Intermediate      |
| Slide    | 06-13      | 07:15      | 07:40    | 06-13    | 0.42  | 5675.00          | 5689.00        | 14.00         | 33.60      | 110.0    | 800.00          | N/A         | 20.00      | 2900.00        | 2700.00         | Intermediate      |
| Rotate   | 06-13      | 07:40      | 08:05    | 06-13    | 0.42  | 5689.00          | 5758.00        | 69.00         | 165.60     | N/A      | 800.00          | 60.0        | 15.00      | 3200.00        | 2700.00         | Intermediate      |
| Rotate   | 06-13      | 08:10      | 08:20    | 06-13    | 0.17  | 5758.00          | 5765.00        | 7.00          | 42.00      | N/A      | 723.00          | 60.0        | 15.00      | 2550.00        | 1950.00         | Intermediate      |
| Slide    | 06-13      | 08:20      | 09:25    | 06-13    | 1.08  | 5765.00          | 5789.00        | 24.00         | 22.15      | 110.0    | 723.00          | N/A         | 20.00      | 2550.00        | 1950.00         | Intermediate      |
| Rotate   | 06-13      | 09:25      | 09:45    | 06-13    | 0.33  | 5789.00          | 5853.00        | 64.00         | 192.00     | N/A      | 723.00          | 60.0        | 35.00      | 2550.00        | 1950.00         | Intermediate      |
| Rotate   | 06-13      | 09:50      | 10:05    | 06-13    | 0.25  | 5853.00          | 5865.00        | 12.00         | 48.00      | N/A      | 723.00          | 60.0        | 35.00      | 2550.00        | 1950.00         | Intermediate      |
| Slide    | 06-13      | 10:05      | 11:00    | 06-13    | 0.92  | 5865.00          | 5886.00        | 21.00         | 22.91      | 110.0    | 723.00          | N/A         | 20.00      | 2550.00        | 1950.00         | Intermediate      |
| Rotate   | 06-13      | 11:00      | 11:25    | 06-13    | 0.42  | 5886.00          | 5947.00        | 61.00         | 146.40     | N/A      | 723.00          | 60.0        | 35.00      | 2550.00        | 1950.00         | Intermediate      |
| Rotate   | 06-13      | 11:30      | 11:40    | 06-13    | 0.17  | 5947.00          | 5960.00        | 13.00         | 78.00      | N/A      | 723.00          | 60.0        | 35.00      | 2550.00        | 1950.00         | Intermediate      |
| Slide    | 06-13      | 11:40      | 12:30    | 06-13    | 0.83  | 5960.00          | 5978.00        | 18.00         | 21.60      | 130.0    | 723.00          | N/A         | 20.00      | 2550.00        | 1950.00         | Intermediate      |
| Rotate   | 06-13      | 12:30      | 12:55    | 06-13    | 0.42  | 5978.00          | 6042.00        | 64.00         | 153.60     | N/A      | 723.00          | 60.0        | 35.00      | 2550.00        | 1950.00         | Intermediate      |

|        |       |       |       |       |      |         |         |       |        |       |        |      |       |         |         |              |
|--------|-------|-------|-------|-------|------|---------|---------|-------|--------|-------|--------|------|-------|---------|---------|--------------|
| Rotate | 06-13 | 13:00 | 13:35 | 06-13 | 0.58 | 6042.00 | 6137.00 | 95.00 | 162.86 | N/A   | 723.00 | 60.0 | 35.00 | 2550.00 | 1950.00 | Intermediate |
| Rotate | 06-13 | 13:40 | 13:50 | 06-13 | 0.17 | 6137.00 | 6150.00 | 13.00 | 78.00  | N/A   | 723.00 | 60.0 | 35.00 | 2550.00 | 1950.00 | Intermediate |
| Slide  | 06-13 | 13:50 | 14:30 | 06-13 | 0.67 | 6150.00 | 6162.00 | 12.00 | 18.00  | 210.0 | 723.00 | N/A  | 20.00 | 2550.00 | 1950.00 | Intermediate |
| Rotate | 06-13 | 14:30 | 14:55 | 06-13 | 0.42 | 6162.00 | 6231.00 | 69.00 | 165.60 | N/A   | 723.00 | 60.0 | 35.00 | 2550.00 | 1950.00 | Intermediate |
| Rotate | 06-13 | 15:00 | 15:05 | 06-13 | 0.08 | 6231.00 | 6245.00 | 14.00 | 168.00 | N/A   | 723.00 | 60.0 | 35.00 | 2550.00 | 1950.00 | Intermediate |
| Slide  | 06-13 | 15:05 | 15:45 | 06-13 | 0.67 | 6245.00 | 6262.00 | 17.00 | 25.50  | 210.0 | 723.00 | N/A  | 20.00 | 2550.00 | 1950.00 | Intermediate |
| Rotate | 06-13 | 15:45 | 16:10 | 06-13 | 0.42 | 6262.00 | 6326.00 | 64.00 | 153.60 | N/A   | 723.00 | 60.0 | 35.00 | 2550.00 | 1950.00 | Intermediate |
| Rotate | 06-13 | 16:15 | 16:45 | 06-13 | 0.5  | 6326.00 | 6421.00 | 95.00 | 190.00 | N/A   | 723.00 | 60.0 | 35.00 | 2550.00 | 1950.00 | Intermediate |
| Rotate | 06-13 | 16:50 | 17:40 | 06-13 | 0.83 | 6421.00 | 6515.00 | 94.00 | 112.80 | N/A   | 723.00 | 60.0 | 35.00 | 2550.00 | 1950.00 | Intermediate |
| Rotate | 06-13 | 17:45 | 18:35 | 06-13 | 0.83 | 6515.00 | 6610.00 | 95.00 | 114.00 | N/A   | 723.00 | 60.0 | 35.00 | 2550.00 | 1950.00 | Intermediate |
| Rotate | 06-13 | 18:40 | 19:25 | 06-13 | 0.75 | 6610.00 | 6642.00 | 32.00 | 42.67  | N/A   | 723.00 | 60.0 | 35.00 | 2550.00 | 1950.00 | Intermediate |



|                                 |                                                     |  |                      |                                                       |  |
|---------------------------------|-----------------------------------------------------|--|----------------------|-------------------------------------------------------|--|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          |  |                      | <b>Rig Name</b><br>Nabors X50                         |  |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           |  |                      | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |  |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US |  | <b>County</b><br>Lea | <b>Company Man</b>                                    |  |

**Slide/Rotate Report - BHA #3 (9 7/8 Intermediate)**

| Activity | Start Date | Start Time | End Time | End Date | Hours | Start Depth (ft) | End Depth (ft) | Distance (ft) | RoP (ft/h) | Toolface | Flow Rate (gpm) | Surface RPM | WOB (klbs) | Press On (psi) | Press Off (psi) | Hole Section Type |
|----------|------------|------------|----------|----------|-------|------------------|----------------|---------------|------------|----------|-----------------|-------------|------------|----------------|-----------------|-------------------|
| Rotate   | 06-15      | 03:05      | 03:20    | 06-15    | 0.25  | 6642.00          | 6704.00        | 62.00         | 248.00     | N/A      | 723.00          | 60.0        | 35.00      | 2550.00        | 1950.00         | Intermediate      |
| Rotate   | 06-15      | 03:25      | 03:30    | 06-15    | 0.08  | 6704.00          | 6714.00        | 10.00         | 120.00     | N/A      | 723.00          | 60.0        | 35.00      | 2550.00        | 1950.00         | Intermediate      |
| Slide    | 06-15      | 03:30      | 04:00    | 06-15    | 0.5   | 6714.00          | 6729.00        | 15.00         | 30.00      | 193.0    | 750.00          | N/A         | 15.00      | 2900.00        | 2500.00         | Intermediate      |
| Rotate   | 06-15      | 04:00      | 04:20    | 06-15    | 0.33  | 6729.00          | 6800.00        | 71.00         | 213.00     | N/A      | 723.00          | 60.0        | 35.00      | 3400.00        | 2500.00         | Intermediate      |
| Rotate   | 06-15      | 04:25      | 04:40    | 06-15    | 0.25  | 6800.00          | 6894.00        | 94.00         | 376.00     | N/A      | 723.00          | 60.0        | 35.00      | 3400.00        | 2500.00         | Intermediate      |
| Rotate   | 06-15      | 04:45      | 05:00    | 06-15    | 0.25  | 6894.00          | 6988.00        | 94.00         | 376.00     | N/A      | 723.00          | 60.0        | 35.00      | 3400.00        | 2500.00         | Intermediate      |
| Rotate   | 06-15      | 05:05      | 05:10    | 06-15    | 0.08  | 6988.00          | 7004.00        | 16.00         | 192.00     | N/A      | 723.00          | 60.0        | 35.00      | 3400.00        | 2500.00         | Intermediate      |
| Slide    | 06-15      | 05:10      | 05:40    | 06-15    | 0.5   | 7004.00          | 7019.00        | 15.00         | 30.00      | 200.0    | 750.00          | N/A         | 15.00      | 2900.00        | 2500.00         | Intermediate      |
| Rotate   | 06-15      | 05:40      | 05:55    | 06-15    | 0.25  | 7019.00          | 7083.00        | 64.00         | 256.00     | N/A      | 723.00          | 60.0        | 35.00      | 3400.00        | 2500.00         | Intermediate      |
| Rotate   | 06-15      | 06:00      | 06:20    | 06-15    | 0.33  | 7083.00          | 7178.00        | 95.00         | 285.00     | N/A      | 723.00          | 60.0        | 35.00      | 3400.00        | 2500.00         | Intermediate      |
| Rotate   | 06-15      | 06:25      | 06:40    | 06-15    | 0.25  | 7178.00          | 7273.00        | 95.00         | 380.00     | N/A      | 723.00          | 60.0        | 35.00      | 3400.00        | 2500.00         | Intermediate      |
| Rotate   | 06-15      | 06:45      | 07:00    | 06-15    | 0.25  | 7273.00          | 7368.00        | 95.00         | 380.00     | N/A      | 723.00          | 60.0        | 35.00      | 3400.00        | 2500.00         | Intermediate      |
| Rotate   | 06-15      | 07:05      | 07:25    | 06-15    | 0.33  | 7368.00          | 7463.00        | 95.00         | 285.00     | N/A      | 723.00          | 60.0        | 35.00      | 3400.00        | 2500.00         | Intermediate      |
| Rotate   | 06-15      | 07:30      | 07:50    | 06-15    | 0.33  | 7463.00          | 7557.00        | 94.00         | 282.00     | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Rotate   | 06-15      | 07:55      | 08:10    | 06-15    | 0.25  | 7557.00          | 7652.00        | 95.00         | 380.00     | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Rotate   | 06-15      | 08:15      | 08:35    | 06-15    | 0.33  | 7652.00          | 7747.00        | 95.00         | 285.00     | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Rotate   | 06-15      | 08:40      | 08:50    | 06-15    | 0.17  | 7747.00          | 7760.00        | 13.00         | 78.00      | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Slide    | 06-15      | 08:50      | 09:25    | 06-15    | 0.58  | 7760.00          | 7777.00        | 17.00         | 29.14      | 100.0    | 746.00          | N/A         | 15.00      | 3300.00        | 2900.00         | Intermediate      |
| Rotate   | 06-15      | 09:25      | 09:40    | 06-15    | 0.25  | 7777.00          | 7841.00        | 64.00         | 256.00     | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Rotate   | 06-15      | 09:45      | 09:55    | 06-15    | 0.17  | 7841.00          | 7855.00        | 14.00         | 84.00      | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Slide    | 06-15      | 09:55      | 10:35    | 06-15    | 0.67  | 7855.00          | 7873.00        | 18.00         | 27.00      | 100.0    | 746.00          | N/A         | 15.00      | 3300.00        | 2900.00         | Intermediate      |
| Rotate   | 06-15      | 10:35      | 10:50    | 06-15    | 0.25  | 7873.00          | 7936.00        | 63.00         | 252.00     | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Rotate   | 06-15      | 10:55      | 11:15    | 06-15    | 0.33  | 7936.00          | 8031.00        | 95.00         | 285.00     | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Rotate   | 06-15      | 11:20      | 11:45    | 06-15    | 0.42  | 8031.00          | 8126.00        | 95.00         | 228.00     | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Rotate   | 06-15      | 11:50      | 12:10    | 06-15    | 0.33  | 8126.00          | 8221.00        | 95.00         | 285.00     | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Rotate   | 06-15      | 12:15      | 12:50    | 06-15    | 0.58  | 8221.00          | 8316.00        | 95.00         | 162.86     | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Rotate   | 06-15      | 12:55      | 13:25    | 06-15    | 0.5   | 8316.00          | 8411.00        | 95.00         | 190.00     | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Rotate   | 06-15      | 13:30      | 13:50    | 06-15    | 0.33  | 8411.00          | 8505.00        | 94.00         | 282.00     | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Rotate   | 06-15      | 13:55      | 14:30    | 06-15    | 0.58  | 8505.00          | 8600.00        | 95.00         | 162.86     | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Rotate   | 06-15      | 14:35      | 15:30    | 06-15    | 0.92  | 8600.00          | 8694.00        | 94.00         | 102.55     | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Rotate   | 06-15      | 15:35      | 16:35    | 06-15    | 1.0   | 8694.00          | 8790.00        | 96.00         | 96.00      | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Rotate   | 06-15      | 16:40      | 16:55    | 06-15    | 0.25  | 8790.00          | 8801.00        | 11.00         | 44.00      | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Slide    | 06-15      | 16:55      | 17:55    | 06-15    | 1.0   | 8801.00          | 8820.00        | 19.00         | 19.00      | 100.0    | 750.00          | N/A         | 15.00      | 3500.00        | 3100.00         | Intermediate      |
| Rotate   | 06-15      | 17:55      | 18:45    | 06-15    | 0.83  | 8820.00          | 8885.00        | 65.00         | 78.00      | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Rotate   | 06-15      | 18:50      | 20:20    | 06-15    | 1.5   | 8885.00          | 8979.00        | 94.00         | 62.67      | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Rotate   | 06-15      | 20:25      | 21:50    | 06-15    | 1.42  | 8979.00          | 9073.00        | 94.00         | 66.35      | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |

|        |       |       |       |       |      |         |          |       |        |       |        |      |       |         |         |              |
|--------|-------|-------|-------|-------|------|---------|----------|-------|--------|-------|--------|------|-------|---------|---------|--------------|
| Rotate | 06-15 | 21:55 | 22:55 | 06-15 | 1.0  | 9073.00 | 9168.00  | 95.00 | 95.00  | N/A   | 747.00 | 60.0 | 35.00 | 3750.00 | 2950.00 | Intermediate |
| Rotate | 06-15 | 23:00 | 23:10 | 06-15 | 0.17 | 9168.00 | 9178.00  | 10.00 | 60.00  | N/A   | 747.00 | 60.0 | 35.00 | 3750.00 | 2950.00 | Intermediate |
| Slide  | 06-15 | 23:10 | 00:20 | 06-16 | 1.17 | 9178.00 | 9193.00  | 15.00 | 12.86  | 85.0  | 750.00 | N/A  | 15.00 | 3500.00 | 3100.00 | Intermediate |
| Rotate | 06-16 | 00:20 | 01:15 | 06-16 | 0.92 | 9193.00 | 9262.00  | 69.00 | 75.27  | N/A   | 747.00 | 60.0 | 35.00 | 3750.00 | 2950.00 | Intermediate |
| Rotate | 06-16 | 01:20 | 01:25 | 06-16 | 0.08 | 9262.00 | 9267.00  | 5.00  | 60.00  | N/A   | 747.00 | 60.0 | 35.00 | 3750.00 | 2950.00 | Intermediate |
| Slide  | 06-16 | 01:25 | 03:15 | 06-16 | 1.83 | 9267.00 | 9297.00  | 30.00 | 16.36  | 120.0 | 750.00 | N/A  | 15.00 | 3500.00 | 3100.00 | Intermediate |
| Rotate | 06-16 | 03:15 | 04:10 | 06-16 | 0.92 | 9297.00 | 9357.00  | 60.00 | 65.45  | N/A   | 747.00 | 60.0 | 35.00 | 3750.00 | 2950.00 | Intermediate |
| Rotate | 06-16 | 04:15 | 05:10 | 06-16 | 0.92 | 9357.00 | 9452.00  | 95.00 | 103.64 | N/A   | 747.00 | 60.0 | 35.00 | 3750.00 | 2950.00 | Intermediate |
| Rotate | 06-16 | 05:15 | 06:15 | 06-16 | 1.0  | 9452.00 | 9546.00  | 94.00 | 94.00  | N/A   | 747.00 | 60.0 | 35.00 | 3750.00 | 2950.00 | Intermediate |
| Rotate | 06-16 | 06:20 | 07:50 | 06-16 | 1.5  | 9546.00 | 9641.00  | 95.00 | 63.33  | N/A   | 747.00 | 60.0 | 35.00 | 3750.00 | 2950.00 | Intermediate |
| Rotate | 06-16 | 07:55 | 08:10 | 06-16 | 0.25 | 9641.00 | 9651.00  | 10.00 | 40.00  | N/A   | 747.00 | 60.0 | 35.00 | 3750.00 | 2950.00 | Intermediate |
| Slide  | 06-16 | 08:10 | 09:40 | 06-16 | 1.5  | 9651.00 | 9666.00  | 15.00 | 10.00  | 120.0 | 750.00 | N/A  | 15.00 | 3500.00 | 3100.00 | Intermediate |
| Rotate | 06-16 | 09:40 | 11:45 | 06-16 | 2.08 | 9666.00 | 9734.00  | 68.00 | 32.64  | N/A   | 747.00 | 60.0 | 35.00 | 3750.00 | 2950.00 | Intermediate |
| Rotate | 06-16 | 11:50 | 12:10 | 06-16 | 0.33 | 9734.00 | 9744.00  | 10.00 | 30.00  | N/A   | 747.00 | 60.0 | 35.00 | 3750.00 | 2950.00 | Intermediate |
| Slide  | 06-16 | 12:10 | 14:00 | 06-16 | 1.83 | 9744.00 | 9764.00  | 20.00 | 10.91  | 120.0 | 750.00 | N/A  | 15.00 | 3500.00 | 3100.00 | Intermediate |
| Rotate | 06-16 | 14:00 | 15:35 | 06-16 | 1.58 | 9764.00 | 9828.00  | 64.00 | 40.42  | N/A   | 747.00 | 60.0 | 35.00 | 3750.00 | 2950.00 | Intermediate |
| Rotate | 06-16 | 15:40 | 18:00 | 06-16 | 2.33 | 9828.00 | 9923.00  | 95.00 | 40.71  | N/A   | 747.00 | 60.0 | 35.00 | 3750.00 | 2950.00 | Intermediate |
| Rotate | 06-16 | 18:05 | 21:50 | 06-16 | 3.75 | 9923.00 | 10019.00 | 96.00 | 25.60  | N/A   | 747.00 | 60.0 | 35.00 | 3750.00 | 2950.00 | Intermediate |



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
| <b>Company Man</b>              |                                                     |                                                       |

### Slide/Rotate Report - BHA #4 (9 7/8 Intermediate)

| Activity | Start Date | Start Time | End Time | End Date | Hours | Start Depth (ft) | End Depth (ft) | Distance (ft) | RoP (ft/h) | Toolface | Flow Rate (gpm) | Surface RPM | WOB (klbs) | Press On (psi) | Press Off (psi) | Hole Section Type |
|----------|------------|------------|----------|----------|-------|------------------|----------------|---------------|------------|----------|-----------------|-------------|------------|----------------|-----------------|-------------------|
| Rotate   | 06-17      | 07:20      | 07:35    | 06-17    | 0.25  | 10019.00         | 10029.00       | 10.00         | 40.00      | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Slide    | 06-17      | 07:35      | 09:15    | 06-17    | 1.67  | 10029.00         | 10053.00       | 24.00         | 14.40      | 115.0    | 750.00          | N/A         | 15.00      | 3500.00        | 3100.00         | Intermediate      |
| Rotate   | 06-17      | 09:15      | 09:50    | 06-17    | 0.58  | 10053.00         | 10114.00       | 61.00         | 104.57     | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Rotate   | 06-17      | 09:55      | 11:00    | 06-17    | 1.08  | 10114.00         | 10209.00       | 95.00         | 87.69      | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Rotate   | 06-17      | 11:05      | 12:45    | 06-17    | 1.67  | 10209.00         | 10304.00       | 95.00         | 57.00      | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Rotate   | 06-17      | 12:50      | 13:05    | 06-17    | 0.25  | 10304.00         | 10314.00       | 10.00         | 40.00      | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Slide    | 06-17      | 13:05      | 14:00    | 06-17    | 0.92  | 10314.00         | 10322.00       | 8.00          | 8.73       | 90.0     | 750.00          | N/A         | 15.00      | 3500.00        | 3100.00         | Intermediate      |
| Rotate   | 06-17      | 14:00      | 15:35    | 06-17    | 1.58  | 10322.00         | 10397.00       | 75.00         | 47.37      | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Rotate   | 06-17      | 15:40      | 17:50    | 06-17    | 2.17  | 10397.00         | 10492.00       | 95.00         | 43.85      | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Rotate   | 06-17      | 17:55      | 19:50    | 06-17    | 1.92  | 10492.00         | 10587.00       | 95.00         | 49.57      | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |
| Rotate   | 06-17      | 19:55      | 21:10    | 06-17    | 1.25  | 10587.00         | 10645.00       | 58.00         | 46.40      | N/A      | 747.00          | 60.0        | 35.00      | 3750.00        | 2950.00         | Intermediate      |



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
| <b>Company Man</b>              |                                                     |                                                       |

**Slide/Rotate Report - BHA #5 (6.75" INTERMEDIATE)**

| Activity | Start Date | Start Time | End Time | End Date | Hours | Start Depth (ft) | End Depth (ft) | Distance (ft) | RoP (ft/h) | Toolface | Flow Rate (gpm) | Surface RPM | WOB (klbs) | Press On (psi) | Press Off (psi) | Hole Section Type   |
|----------|------------|------------|----------|----------|-------|------------------|----------------|---------------|------------|----------|-----------------|-------------|------------|----------------|-----------------|---------------------|
| Rotate   | 06-20      | 12:10      | 14:05    | 06-20    | 1.92  | 10645.00         | 10744.00       | 99.00         | 51.65      | N/A      | 225.00          | 30.0        | 20.00      | 2550.00        | 1500.00         | Intermediate        |
| Rotate   | 06-20      | 14:10      | 14:30    | 06-20    | 0.33  | 10744.00         | 10754.00       | 10.00         | 30.00      | N/A      | 225.00          | 30.0        | 20.00      | 2550.00        | 1500.00         | Intermediate        |
| Slide    | 06-20      | 14:30      | 15:15    | 06-20    | 0.75  | 10754.00         | 10771.00       | 17.00         | 22.67      | 90.0     | 225.00          | N/A         | 12.00      | 2200.00        | 1500.00         | Intermediate        |
| Rotate   | 06-20      | 15:15      | 16:30    | 06-20    | 1.25  | 10771.00         | 10839.00       | 68.00         | 54.40      | N/A      | 225.00          | 30.0        | 20.00      | 2550.00        | 1500.00         | Intermediate        |
| Rotate   | 06-20      | 16:35      | 16:55    | 06-20    | 0.33  | 10839.00         | 10849.00       | 10.00         | 30.00      | N/A      | 225.00          | 30.0        | 20.00      | 2550.00        | 1500.00         | Intermediate        |
| Slide    | 06-20      | 16:55      | 18:40    | 06-20    | 1.75  | 10849.00         | 10876.00       | 27.00         | 15.43      | 100.0    | 225.00          | N/A         | 12.00      | 2200.00        | 1500.00         | Intermediate        |
| Rotate   | 06-20      | 18:40      | 19:30    | 06-20    | 0.83  | 10876.00         | 10932.00       | 56.00         | 67.20      | N/A      | 225.00          | 30.0        | 20.00      | 2550.00        | 1500.00         | Intermediate        |
| Rotate   | 06-20      | 19:40      | 21:10    | 06-20    | 1.5   | 10932.00         | 11027.00       | 95.00         | 63.33      | N/A      | 225.00          | 30.0        | 20.00      | 2550.00        | 1500.00         | Intermediate        |
| Rotate   | 06-20      | 21:15      | 22:40    | 06-20    | 1.42  | 11027.00         | 11122.00       | 95.00         | 67.06      | N/A      | 225.00          | 30.0        | 20.00      | 2550.00        | 1500.00         | Intermediate        |
| Rotate   | 06-20      | 22:45      | 00:15    | 06-21    | 1.5   | 11122.00         | 11217.00       | 95.00         | 63.33      | N/A      | 225.00          | 30.0        | 20.00      | 2550.00        | 1500.00         | Intermediate        |
| Rotate   | 06-21      | 00:20      | 02:15    | 06-21    | 1.92  | 11217.00         | 11311.00       | 94.00         | 49.04      | N/A      | 225.00          | 30.0        | 20.00      | 2550.00        | 1500.00         | Intermediate        |
| Rotate   | 06-21      | 02:20      | 04:00    | 06-21    | 1.67  | 11311.00         | 11406.00       | 95.00         | 57.00      | N/A      | 225.00          | 30.0        | 20.00      | 2550.00        | 1500.00         | Intermediate        |
| Rotate   | 06-21      | 04:05      | 05:45    | 06-21    | 1.67  | 11406.00         | 11500.00       | 94.00         | 56.40      | N/A      | 225.00          | 30.0        | 20.00      | 2550.00        | 1500.00         | Intermediate        |
| Rotate   | 06-21      | 05:50      | 08:15    | 06-21    | 2.42  | 11500.00         | 11595.00       | 95.00         | 39.31      | N/A      | 225.00          | 30.0        | 20.00      | 2550.00        | 1500.00         | Intermediate        |
| Rotate   | 06-21      | 08:20      | 10:20    | 06-21    | 2.0   | 11595.00         | 11660.00       | 65.00         | 32.50      | N/A      | 225.00          | 30.0        | 20.00      | 2550.00        | 1500.00         | Intermediate, Curve |



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
| <b>Company Man</b>              |                                                     |                                                       |

**Slide/Rotate Report - BHA #6 (6.75" CURVE)**

| Activity | Start Date | Start Time | End Time | End Date | Hours | Start Depth (ft) | End Depth (ft) | Distance (ft) | RoP (ft/h) | Toolface | Flow Rate (gpm) | Surface RPM | WOB (klbs) | Press On (psi) | Press Off (psi) | Hole Section Type |
|----------|------------|------------|----------|----------|-------|------------------|----------------|---------------|------------|----------|-----------------|-------------|------------|----------------|-----------------|-------------------|
| Slide    | 06-21      | 23:50      | 00:30    | 06-22    | 0.67  | 11660.00         | 11679.00       | 19.00         | 28.50      | 350.0    | 250.00          | N/A         | 15.00      | 2200.00        | 1900.00         | Curve             |
| Slide    | 06-22      | 00:35      | 02:50    | 06-22    | 2.25  | 11679.00         | 11773.00       | 94.00         | 41.78      | 350.0    | 250.00          | N/A         | 15.00      | 2200.00        | 1900.00         | Curve             |
| Rotate   | 06-22      | 03:05      | 03:20    | 06-22    | 0.25  | 11773.00         | 11783.00       | 10.00         | 40.00      | N/A      | 225.00          | 20.0        | 20.00      | 2550.00        | 1500.00         | Curve             |
| Slide    | 06-22      | 03:20      | 04:00    | 06-22    | 0.67  | 11783.00         | 11814.00       | 31.00         | 46.50      | 0.0      | 250.00          | N/A         | 15.00      | 2200.00        | 1900.00         | Curve             |
| Rotate   | 06-22      | 04:00      | 04:20    | 06-22    | 0.33  | 11814.00         | 11829.00       | 15.00         | 45.00      | N/A      | 225.00          | 20.0        | 20.00      | 2550.00        | 1500.00         | Curve             |
| Slide    | 06-22      | 04:20      | 05:10    | 06-22    | 0.83  | 11829.00         | 11868.00       | 39.00         | 46.80      | 5.0      | 250.00          | N/A         | 15.00      | 2200.00        | 1900.00         | Curve             |
| Rotate   | 06-22      | 05:15      | 05:45    | 06-22    | 0.5   | 11868.00         | 11888.00       | 20.00         | 40.00      | N/A      | 225.00          | 20.0        | 20.00      | 2550.00        | 1500.00         | Curve             |
| Slide    | 06-22      | 05:45      | 06:45    | 06-22    | 1.0   | 11888.00         | 11962.00       | 74.00         | 74.00      | 0.0      | 250.00          | N/A         | 15.00      | 2200.00        | 1900.00         | Curve             |
| Rotate   | 06-22      | 06:55      | 07:20    | 06-22    | 0.42  | 11962.00         | 12002.00       | 40.00         | 96.00      | N/A      | 225.00          | 20.0        | 20.00      | 2550.00        | 1500.00         | Curve             |
| Slide    | 06-22      | 07:20      | 08:05    | 06-22    | 0.75  | 12002.00         | 12057.00       | 55.00         | 73.33      | 10.0     | 250.00          | N/A         | 15.00      | 2200.00        | 1900.00         | Curve             |
| Rotate   | 06-22      | 08:10      | 08:45    | 06-22    | 0.58  | 12057.00         | 12102.00       | 45.00         | 77.14      | N/A      | 225.00          | 20.0        | 20.00      | 2550.00        | 1500.00         | Curve             |
| Slide    | 06-22      | 08:45      | 09:30    | 06-22    | 0.75  | 12102.00         | 12151.00       | 49.00         | 65.33      | 10.0     | 250.00          | N/A         | 15.00      | 2200.00        | 1900.00         | Curve             |
| Rotate   | 06-22      | 09:35      | 10:30    | 06-22    | 0.92  | 12151.00         | 12231.00       | 80.00         | 87.27      | N/A      | 225.00          | 20.0        | 20.00      | 2550.00        | 1500.00         | Curve             |
| Slide    | 06-22      | 10:30      | 10:45    | 06-22    | 0.25  | 12231.00         | 12246.00       | 15.00         | 60.00      | 0.0      | 250.00          | N/A         | 15.00      | 2200.00        | 1900.00         | Curve             |
| Rotate   | 06-22      | 10:50      | 11:30    | 06-22    | 0.67  | 12246.00         | 12306.00       | 60.00         | 90.00      | N/A      | 225.00          | 20.0        | 20.00      | 2550.00        | 1500.00         | Curve             |
| Slide    | 06-22      | 11:30      | 12:00    | 06-22    | 0.5   | 12306.00         | 12337.00       | 31.00         | 62.00      | 0.0      | 300.00          | N/A         | 15.00      | 3400.00        | 2700.00         | Curve             |
| Rotate   | 06-22      | 12:10      | 12:15    | 06-22    | 0.08  | 12337.00         | 12347.00       | 10.00         | 120.00     | N/A      | 300.00          | 20.0        | 20.00      | 3600.00        | 2700.00         | Curve             |
| Slide    | 06-22      | 12:15      | 13:10    | 06-22    | 0.92  | 12347.00         | 12412.00       | 65.00         | 70.91      | 0.0      | 300.00          | N/A         | 15.00      | 3400.00        | 2700.00         | Curve             |
| Rotate   | 06-22      | 13:10      | 13:25    | 06-22    | 0.25  | 12412.00         | 12432.00       | 20.00         | 80.00      | N/A      | 300.00          | 20.0        | 20.00      | 3600.00        | 2700.00         | Curve             |
| Rotate   | 06-22      | 13:40      | 13:50    | 06-22    | 0.17  | 12432.00         | 12447.00       | 15.00         | 90.00      | N/A      | 300.00          | 20.0        | 20.00      | 3600.00        | 2700.00         | Curve             |
| Slide    | 06-22      | 13:50      | 14:25    | 06-22    | 0.58  | 12447.00         | 12487.00       | 40.00         | 68.57      | 0.0      | 300.00          | N/A         | 15.00      | 3400.00        | 2700.00         | Curve             |
| Rotate   | 06-22      | 14:25      | 14:55    | 06-22    | 0.5   | 12487.00         | 12527.00       | 40.00         | 80.00      | N/A      | 300.00          | 20.0        | 20.00      | 3600.00        | 2700.00         | Curve             |
| Rotate   | 06-22      | 15:00      | 15:25    | 06-22    | 0.42  | 12527.00         | 12560.00       | 33.00         | 79.20      | N/A      | 300.00          | 20.0        | 20.00      | 3600.00        | 2700.00         | Curve, Lateral    |



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
| <b>Company Man</b>              |                                                     |                                                       |

**Slide/Rotate Report - BHA #7 (6.75" LATERAL)**

| Activity | Start Date | Start Time | End Time | End Date | Hours | Start Depth (ft) | End Depth (ft) | Distance (ft) | RoP (ft/h) | Toolface | Flow Rate (gpm) | Surface RPM | WOB (klbs) | Press On (psi) | Press Off (psi) | Hole Section Type |
|----------|------------|------------|----------|----------|-------|------------------|----------------|---------------|------------|----------|-----------------|-------------|------------|----------------|-----------------|-------------------|
| Rotate   | 06-23      | 08:20      | 08:35    | 06-23    | 0.25  | 12560.00         | 12593.00       | 33.00         | 132.00     | N/A      | 300.00          | 40.0        | 20.00      | 4150.00        | 3050.00         | Lateral           |
| Rotate   | 06-23      | 08:40      | 09:05    | 06-23    | 0.42  | 12593.00         | 12689.00       | 96.00         | 230.40     | N/A      | 300.00          | 40.0        | 20.00      | 4150.00        | 3050.00         | Lateral           |
| Rotate   | 06-23      | 09:10      | 09:15    | 06-23    | 0.08  | 12689.00         | 12694.00       | 5.00          | 60.00      | N/A      | 300.00          | 40.0        | 20.00      | 4150.00        | 3050.00         | Lateral           |
| Slide    | 06-23      | 09:15      | 09:40    | 06-23    | 0.42  | 12694.00         | 12724.00       | 30.00         | 72.00      | 90.0     | 300.00          | N/A         | 20.00      | 3900.00        | 3200.00         | Lateral           |
| Rotate   | 06-23      | 09:40      | 09:55    | 06-23    | 0.25  | 12724.00         | 12783.00       | 59.00         | 236.00     | N/A      | 300.00          | 40.0        | 20.00      | 4150.00        | 3050.00         | Lateral           |
| Slide    | 06-23      | 10:00      | 10:50    | 06-23    | 0.83  | 12783.00         | 12808.00       | 25.00         | 30.00      | 160.0    | 300.00          | N/A         | 20.00      | 3900.00        | 3200.00         | Lateral           |
| Rotate   | 06-23      | 10:50      | 11:15    | 06-23    | 0.42  | 12808.00         | 12878.00       | 70.00         | 168.00     | N/A      | 300.00          | 40.0        | 20.00      | 4150.00        | 3050.00         | Lateral           |
| Slide    | 06-23      | 11:20      | 11:55    | 06-23    | 0.58  | 12878.00         | 12918.00       | 40.00         | 68.57      | 180.0    | 300.00          | N/A         | 20.00      | 3900.00        | 3200.00         | Lateral           |
| Rotate   | 06-23      | 11:55      | 12:10    | 06-23    | 0.25  | 12918.00         | 12973.00       | 55.00         | 220.00     | N/A      | 300.00          | 40.0        | 20.00      | 4150.00        | 3050.00         | Lateral           |
| Rotate   | 06-23      | 12:25      | 12:50    | 06-23    | 0.42  | 12973.00         | 13068.00       | 95.00         | 228.00     | N/A      | 300.00          | 40.0        | 20.00      | 4150.00        | 3050.00         | Lateral           |
| Rotate   | 06-23      | 12:55      | 13:25    | 06-23    | 0.5   | 13068.00         | 13163.00       | 95.00         | 190.00     | N/A      | 300.00          | 40.0        | 20.00      | 4150.00        | 3050.00         | Lateral           |
| Slide    | 06-23      | 13:55      | 14:25    | 06-23    | 0.5   | 13163.00         | 13193.00       | 30.00         | 60.00      | 180.0    | 300.00          | N/A         | 20.00      | 3900.00        | 3200.00         | Lateral           |
| Rotate   | 06-23      | 14:25      | 14:40    | 06-23    | 0.25  | 13193.00         | 13256.00       | 63.00         | 252.00     | N/A      | 300.00          | 40.0        | 20.00      | 4150.00        | 3050.00         | Lateral           |
| Rotate   | 06-23      | 14:45      | 14:50    | 06-23    | 0.08  | 13256.00         | 13266.00       | 10.00         | 120.00     | N/A      | 300.00          | 40.0        | 20.00      | 4150.00        | 3050.00         | Lateral           |
| Slide    | 06-23      | 14:50      | 15:25    | 06-23    | 0.58  | 13266.00         | 13308.00       | 42.00         | 72.00      | 210.0    | 300.00          | N/A         | 20.00      | 3900.00        | 3200.00         | Lateral           |
| Rotate   | 06-23      | 15:25      | 15:35    | 06-23    | 0.17  | 13308.00         | 13351.00       | 43.00         | 258.00     | N/A      | 300.00          | 40.0        | 20.00      | 4150.00        | 3050.00         | Lateral           |
| Rotate   | 06-23      | 15:40      | 15:50    | 06-23    | 0.17  | 13351.00         | 13385.00       | 34.00         | 204.00     | N/A      | 300.00          | 40.0        | 20.00      | 4150.00        | 3050.00         | Lateral           |
| Slide    | 06-23      | 15:50      | 16:05    | 06-23    | 0.25  | 13385.00         | 13395.00       | 10.00         | 40.00      | 0.0      | 300.00          | N/A         | 20.00      | 3900.00        | 3200.00         | Lateral           |
| Rotate   | 06-23      | 16:05      | 16:20    | 06-23    | 0.25  | 13395.00         | 13446.00       | 51.00         | 204.00     | N/A      | 300.00          | 40.0        | 20.00      | 4150.00        | 3050.00         | Lateral           |
| Rotate   | 06-23      | 16:35      | 16:55    | 06-23    | 0.33  | 13446.00         | 13541.00       | 95.00         | 285.00     | N/A      | 300.00          | 40.0        | 20.00      | 4150.00        | 3050.00         | Lateral           |
| Rotate   | 06-23      | 17:00      | 17:20    | 06-23    | 0.33  | 13541.00         | 13636.00       | 95.00         | 285.00     | N/A      | 300.00          | 40.0        | 20.00      | 4150.00        | 3050.00         | Lateral           |
| Rotate   | 06-23      | 17:25      | 17:45    | 06-23    | 0.33  | 13636.00         | 13730.00       | 94.00         | 282.00     | N/A      | 300.00          | 40.0        | 20.00      | 4150.00        | 3050.00         | Lateral           |
| Rotate   | 06-23      | 18:00      | 18:05    | 06-23    | 0.08  | 13730.00         | 13737.00       | 7.00          | 84.00      | N/A      | 300.00          | 70.0        | 20.00      | 4150.00        | 3050.00         | Lateral           |
| Slide    | 06-23      | 18:05      | 18:20    | 06-23    | 0.25  | 13737.00         | 13757.00       | 20.00         | 80.00      | 180.0    | 300.00          | N/A         | 20.00      | 3900.00        | 3200.00         | Lateral           |
| Rotate   | 06-23      | 18:20      | 18:45    | 06-23    | 0.42  | 13757.00         | 13825.00       | 68.00         | 163.20     | N/A      | 300.00          | 70.0        | 25.00      | 4150.00        | 3050.00         | Lateral           |
| Slide    | 06-23      | 18:50      | 19:25    | 06-23    | 0.58  | 13825.00         | 13850.00       | 25.00         | 42.86      | 180.0    | 300.00          | N/A         | 20.00      | 3900.00        | 3200.00         | Lateral           |
| Rotate   | 06-23      | 19:25      | 19:50    | 06-23    | 0.42  | 13850.00         | 13920.00       | 70.00         | 168.00     | N/A      | 300.00          | 70.0        | 25.00      | 4150.00        | 3050.00         | Lateral           |
| Rotate   | 06-23      | 19:55      | 20:10    | 06-23    | 0.25  | 13920.00         | 13964.00       | 44.00         | 176.00     | N/A      | 300.00          | 70.0        | 25.00      | 4150.00        | 3050.00         | Lateral           |
| Slide    | 06-23      | 20:10      | 20:50    | 06-23    | 0.67  | 13964.00         | 13994.00       | 30.00         | 45.00      | 180.0    | 300.00          | N/A         | 20.00      | 3900.00        | 3200.00         | Lateral           |
| Rotate   | 06-23      | 20:50      | 21:00    | 06-23    | 0.17  | 13994.00         | 14014.00       | 20.00         | 120.00     | N/A      | 300.00          | 70.0        | 25.00      | 4150.00        | 3050.00         | Lateral           |
| Rotate   | 06-23      | 21:05      | 21:15    | 06-23    | 0.17  | 14014.00         | 14040.00       | 26.00         | 156.00     | N/A      | 300.00          | 70.0        | 25.00      | 4150.00        | 3050.00         | Lateral           |
| Slide    | 06-23      | 21:15      | 21:45    | 06-23    | 0.5   | 14040.00         | 14070.00       | 30.00         | 60.00      | 180.0    | 300.00          | N/A         | 20.00      | 3900.00        | 3200.00         | Lateral           |
| Rotate   | 06-23      | 21:45      | 21:55    | 06-23    | 0.17  | 14070.00         | 14109.00       | 39.00         | 234.00     | N/A      | 300.00          | 70.0        | 25.00      | 4150.00        | 3050.00         | Lateral           |
| Rotate   | 06-23      | 22:00      | 22:20    | 06-23    | 0.33  | 14109.00         | 14204.00       | 95.00         | 285.00     | N/A      | 300.00          | 70.0        | 28.00      | 4150.00        | 3050.00         | Lateral           |
| Rotate   | 06-23      | 22:30      | 22:50    | 06-23    | 0.33  | 14204.00         | 14299.00       | 95.00         | 285.00     | N/A      | 300.00          | 70.0        | 28.00      | 4150.00        | 3050.00         | Lateral           |
| Rotate   | 06-23      | 22:55      | 23:10    | 06-23    | 0.25  | 14299.00         | 14325.00       | 26.00         | 104.00     | N/A      | 300.00          | 70.0        | 28.00      | 4150.00        | 3050.00         | Lateral           |
| Slide    | 06-23      | 23:10      | 23:25    | 06-23    | 0.25  | 14325.00         | 14343.00       | 18.00         | 72.00      | 225.0    | 300.00          | N/A         | 20.00      | 3900.00        | 3200.00         | Lateral           |
| Rotate   | 06-23      | 23:25      | 23:40    | 06-23    | 0.25  | 14343.00         | 14394.00       | 51.00         | 204.00     | N/A      | 300.00          | 70.0        | 28.00      | 4150.00        | 3050.00         | Lateral           |
| Rotate   | 06-23      | 23:45      | 00:05    | 06-24    | 0.33  | 14394.00         | 14488.00       | 94.00         | 282.00     | N/A      | 300.00          | 70.0        | 28.00      | 4150.00        | 3050.00         | Lateral           |
| Rotate   | 06-24      | 00:10      | 00:25    | 06-24    | 0.25  | 14488.00         | 14530.00       | 42.00         | 168.00     | N/A      |                 |             |            |                |                 | Lateral           |
| Slide    | 06-24      | 00:25      | 01:00    | 06-24    | 0.58  | 14530.00         | 14550.00       | 20.00         | 34.29      | 180.0    | 300.00          | N/A         | 20.00      | 3900.00        | 3200.00         | Lateral           |
| Rotate   | 06-24      | 01:00      | 01:10    | 06-24    | 0.17  | 14550.00         | 14583.00       | 33.00         | 198.00     | N/A      | 298.00          | 70.0        | 28.00      | 4500.00        | 3200.00         | Lateral           |
| Rotate   | 06-24      | 01:15      | 01:25    | 06-24    | 0.17  | 14583.00         | 14610.00       | 27.00         | 162.00     | N/A      | 298.00          | 70.0        | 28.00      | 4500.00        | 3200.00         | Lateral           |
| Slide    | 06-24      | 01:25      | 02:05    | 06-24    | 0.67  | 14610.00         | 14646.00       | 36.00         | 54.00      | 180.0    | 300.00          | N/A         | 20.00      | 3900.00        | 3200.00         | Lateral           |
| Rotate   | 06-24      | 02:05      | 02:15    | 06-24    | 0.17  | 14646.00         | 14678.00       | 32.00         | 192.00     | N/A      | 298.00          | 70.0        | 28.00      | 4500.00        | 3200.00         | Lateral           |
| Rotate   | 06-24      | 02:40      | 03:05    | 06-24    | 0.42  | 14678.00         | 14774.00       | 96.00         | 230.40     | N/A      | 298.00          | 70.0        | 28.00      | 4500.00        | 3200.00         | Lateral           |
| Rotate   | 06-24      | 03:10      | 03:35    | 06-24    | 0.42  | 14774.00         | 14868.00       | 94.00         | 225.60     | N/A      | 298.00          | 70.0        | 30.00      | 4500.00        | 3200.00         | Lateral           |
| Rotate   | 06-24      | 03:40      | 04:00    | 06-24    | 0.33  | 14868.00         | 14964.00       | 96.00         | 288.00     | N/A      | 298.00          | 70.0        | 35.00      | 4500.00        | 3200.00         | Lateral           |
| Rotate   | 06-24      | 04:05      | 04:15    | 06-24    | 0.17  | 14964.00         | 14976.00       | 12.00         | 72.00      | N/A      | 298.00          | 70.0        | 35.00      | 4500.00        | 3200.00         | Lateral           |
| Slide    | 06-24      | 04:15      | 04:40    | 06-24    | 0.42  | 14976.00         | 14991.00       | 15.00         | 36.00      | 60.0     | 300.00          | N/A         | 30.00      | 3700.00        | 3200.00         | Lateral           |
| Rotate   | 06-24      | 04:40      | 05:00    | 06-24    | 0.33  | 14991.00         | 15059.00       | 68.00         | 204.00     | N/A      | 298.00          | 70.0        | 35.00      | 4500.00        | 3200.00         | Lateral           |
| Rotate   | 06-24      | 05:05      | 05:35    | 06-24    | 0.5   | 15059.00         | 15155.00       | 96.00         | 192.00     | N/A      | 298.00          | 70.0        | 35.00      | 4500.00        | 3200.00         | Lateral           |
| Rotate   | 06-24      | 05:40      | 05:50    | 06-24    | 0.17  | 15155.00         | 15177.00       | 22.00         | 132.00     | N/A      | 298.00          | 70.0        | 35.00      | 4500.00        | 3200.00         | Lateral           |
| Slide    | 06-24      | 05:50      | 06:05    | 06-24    | 0.25  | 15177.00         | 15202.00       | 25.00         | 100.00     | 135.0    | 300.00          | N/A         | 30.00      | 3700.00        | 3200.00         | Lateral           |
| Rotate   | 06-24      | 06:05      | 06:30    | 06-24    | 0.42  | 15202.00         | 15247.00       | 45.00         | 108.00     | N/A      | 298.00          | 70.0        | 35.00      | 4500.00        | 3200.00         | Lateral           |
| Rotate   | 06-24      | 06:45      | 07:00    | 06-24    | 0.25  | 15247.00         | 15341.00       | 94.00         | 376.00     | N/A      | 298.00          | 70.0        | 35.00      | 4500.00        | 3200.00         | Lateral           |
| Rotate   | 06-24      | 07:05      | 07:10    | 06-24    | 0.08  | 15341.00         | 15351.00       | 10.00         | 120.00     | N/A      | 298.00          | 70.0        | 35.00      | 4500.00        | 3200.00         | Lateral           |
| Slide    | 06-24      | 07:10      | 07:50    | 06-24    | 0.67  | 15351.00         | 15391.00       | 40.00         | 60.00      | 140.0    | 300.00          | N/A         | 30.00      | 3700.00        | 3200.00         | Lateral           |
| Rotate   | 06-24      | 07:50      | 08:10    | 06-24    | 0.33  | 15391.00         | 15436.00       | 45.00         | 135.00     | N/A      | 298.00          | 70.0        | 35.00      | 4500.00        | 3200.00         | Lateral           |
| Rotate   | 06-24      | 08:25      | 08:45    | 06-24    | 0.33  | 15436.00         | 15529.00       | 93.00         | 279.00     | N/A      | 298.00          | 70.0        | 35.00      | 4500.00        | 3200.00         | Lateral           |
| Rotate   | 06-24      | 08:50      | 09:20    | 06-24    | 0.5   | 15529.00         | 15622.00       | 93.00         | 186.00     | N/A      | 298.00          | 70.0        | 35.00      | 4500.00        | 3200.00         | Lateral           |
| Rotate   | 06-24      | 09:25      | 09:30    | 06-24    | 0.08  | 15622.00         | 15636.00       | 14.00         | 168.00     | N/A      | 298.00          | 70.0        | 35.00      | 4500.00        | 3200.00         | Lateral           |
| Slide    | 06-24      | 09:30      | 10:00    | 06-24    | 0.5   | 15636.00         | 15671.00       | 35.00         | 70.00      | 180.0    | 300.00          | N/A         | 30.00      | 3700.00        | 3200.00         | Lateral           |
| Rotate   | 06-24      | 10:00      | 10:15    | 06-24    | 0.25  | 15671.00         | 15715.00       | 44.00         | 176.00     | N/A      | 298.00          | 70.0        | 35.00      | 4500.00        | 3200.00         | Lateral           |

|        |       |       |       |       |      |          |          |       |        |       |        |      |       |         |         |         |
|--------|-------|-------|-------|-------|------|----------|----------|-------|--------|-------|--------|------|-------|---------|---------|---------|
| Rotate | 06-24 | 10:20 | 10:55 | 06-24 | 0.58 | 15715.00 | 15808.00 | 93.00 | 159.43 | N/A   | 298.00 | 70.0 | 35.00 | 4500.00 | 3200.00 | Lateral |
| Rotate | 06-24 | 11:00 | 11:05 | 06-24 | 0.08 | 15808.00 | 15818.00 | 10.00 | 120.00 | N/A   | 298.00 | 70.0 | 35.00 | 4500.00 | 3200.00 | Lateral |
| Slide  | 06-24 | 11:05 | 11:35 | 06-24 | 0.5  | 15818.00 | 15848.00 | 30.00 | 60.00  | 200.0 | 300.00 | N/A  | 30.00 | 3700.00 | 3200.00 | Lateral |
| Rotate | 06-24 | 11:35 | 11:55 | 06-24 | 0.33 | 15848.00 | 15899.00 | 51.00 | 153.00 | N/A   | 298.00 | 70.0 | 35.00 | 4500.00 | 3200.00 | Lateral |
| Rotate | 06-24 | 12:00 | 12:25 | 06-24 | 0.42 | 15899.00 | 15991.00 | 92.00 | 220.80 | N/A   | 298.00 | 70.0 | 35.00 | 4500.00 | 3200.00 | Lateral |
| Rotate | 06-24 | 12:30 | 12:50 | 06-24 | 0.33 | 15991.00 | 16085.00 | 94.00 | 282.00 | N/A   | 298.00 | 70.0 | 35.00 | 4500.00 | 3200.00 | Lateral |
| Slide  | 06-24 | 13:00 | 13:50 | 06-24 | 0.83 | 16085.00 | 16125.00 | 40.00 | 48.00  | 200.0 | 300.00 | N/A  | 30.00 | 3700.00 | 3200.00 | Lateral |
| Rotate | 06-24 | 13:50 | 14:05 | 06-24 | 0.25 | 16125.00 | 16180.00 | 55.00 | 220.00 | N/A   | 298.00 | 70.0 | 35.00 | 4500.00 | 3200.00 | Lateral |
| Rotate | 06-24 | 14:10 | 14:15 | 06-24 | 0.08 | 16180.00 | 16190.00 | 10.00 | 120.00 | N/A   | 298.00 | 70.0 | 35.00 | 4500.00 | 3200.00 | Lateral |
| Slide  | 06-24 | 14:15 | 14:35 | 06-24 | 0.33 | 16190.00 | 16205.00 | 15.00 | 45.00  | 200.0 | 300.00 | N/A  | 30.00 | 3700.00 | 3200.00 | Lateral |
| Rotate | 06-24 | 14:35 | 14:55 | 06-24 | 0.33 | 16205.00 | 16273.00 | 68.00 | 204.00 | N/A   | 298.00 | 70.0 | 35.00 | 4500.00 | 3200.00 | Lateral |
| Rotate | 06-24 | 15:00 | 15:25 | 06-24 | 0.42 | 16273.00 | 16368.00 | 95.00 | 228.00 | N/A   | 298.00 | 70.0 | 35.00 | 4500.00 | 3200.00 | Lateral |
| Rotate | 06-24 | 15:30 | 16:05 | 06-24 | 0.58 | 16368.00 | 16462.00 | 94.00 | 161.14 | N/A   | 298.00 | 70.0 | 35.00 | 4500.00 | 3200.00 | Lateral |
| Rotate | 06-24 | 16:20 | 16:50 | 06-24 | 0.5  | 16462.00 | 16553.00 | 91.00 | 182.00 | N/A   | 298.00 | 70.0 | 35.00 | 4500.00 | 3200.00 | Lateral |
| Slide  | 06-24 | 17:00 | 17:50 | 06-24 | 0.83 | 16553.00 | 16586.00 | 33.00 | 39.60  | 180.0 | 300.00 | N/A  | 30.00 | 3700.00 | 3200.00 | Lateral |
| Rotate | 06-24 | 17:50 | 18:15 | 06-24 | 0.42 | 16586.00 | 16645.00 | 59.00 | 141.60 | N/A   | 298.00 | 70.0 | 35.00 | 4500.00 | 3200.00 | Lateral |
| Rotate | 06-24 | 18:20 | 18:35 | 06-24 | 0.25 | 16645.00 | 16690.00 | 45.00 | 180.00 | N/A   | 298.00 | 70.0 | 35.00 | 4500.00 | 3200.00 | Lateral |
| Slide  | 06-24 | 18:35 | 19:00 | 06-24 | 0.42 | 16690.00 | 16705.00 | 15.00 | 36.00  | 180.0 | 300.00 | N/A  | 30.00 | 3700.00 | 3200.00 | Lateral |
| Rotate | 06-24 | 19:00 | 19:35 | 06-24 | 0.58 | 16705.00 | 16724.00 | 19.00 | 32.57  | N/A   | 298.00 | 70.0 | 35.00 | 4500.00 | 3200.00 | Lateral |



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
| <b>Company Man</b>              |                                                     |                                                       |

**Slide/Rotate Report - BHA #8 (6.75" LATERAL)**

| Activity | Start Date | Start Time | End Time | End Date | Hours | Start Depth (ft) | End Depth (ft) | Distance (ft) | RoP (ft/h) | Toolface | Flow Rate (gpm) | Surface RPM | WOB (klbs) | Press On (psi) | Press Off (psi) | Hole Section Type |
|----------|------------|------------|----------|----------|-------|------------------|----------------|---------------|------------|----------|-----------------|-------------|------------|----------------|-----------------|-------------------|
| Rotate   | 06-25      | 16:10      | 16:15    | 06-25    | 0.08  | 16724.00         | 16736.00       | 12.00         | 144.00     | N/A      | 275.00          | 40.0        | 25.00      | 4550.00        | 3550.00         | Lateral           |
| Rotate   | 06-25      | 16:20      | 16:50    | 06-25    | 0.5   | 16736.00         | 16828.00       | 92.00         | 184.00     | N/A      | 275.00          | 40.0        | 25.00      | 4550.00        | 3550.00         | Lateral           |
| Rotate   | 06-25      | 17:30      | 17:45    | 06-25    | 0.25  | 16828.00         | 16867.00       | 39.00         | 156.00     | N/A      | 275.00          | 40.0        | 25.00      | 4300.00        | 3350.00         | Lateral           |
| Slide    | 06-25      | 17:45      | 19:05    | 06-25    | 1.33  | 16867.00         | 16900.00       | 33.00         | 24.75      | 180.0    | 275.00          | N/A         | 40.00      | 3850.00        | 3400.00         | Lateral           |
| Rotate   | 06-25      | 19:05      | 19:25    | 06-25    | 0.33  | 16900.00         | 16934.00       | 34.00         | 102.00     | N/A      | 275.00          | 40.0        | 25.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-25      | 19:30      | 20:05    | 06-25    | 0.58  | 16934.00         | 17003.00       | 69.00         | 118.29     | N/A      | 275.00          | 40.0        | 25.00      | 4300.00        | 3350.00         | Lateral           |
| Slide    | 06-25      | 20:05      | 20:50    | 06-25    | 0.75  | 17003.00         | 17025.00       | 22.00         | 29.33      | 180.0    | 275.00          | N/A         | 40.00      | 3850.00        | 3400.00         | Lateral           |
| Rotate   | 06-25      | 20:50      | 21:00    | 06-25    | 0.17  | 17025.00         | 17029.00       | 4.00          | 24.00      | N/A      | 275.00          | 40.0        | 25.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-25      | 21:05      | 21:55    | 06-25    | 0.83  | 17029.00         | 17124.00       | 95.00         | 114.00     | N/A      | 275.00          | 40.0        | 25.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-25      | 22:00      | 22:15    | 06-25    | 0.25  | 17124.00         | 17145.00       | 21.00         | 84.00      | N/A      | 275.00          | 40.0        | 25.00      | 4300.00        | 3350.00         | Lateral           |
| Slide    | 06-25      | 22:15      | 22:30    | 06-25    | 0.25  | 17145.00         | 17170.00       | 25.00         | 100.00     | 160.0    | 275.00          | N/A         | 40.00      | 3850.00        | 3400.00         | Lateral           |
| Rotate   | 06-25      | 22:30      | 23:20    | 06-25    | 0.83  | 17170.00         | 17218.00       | 48.00         | 57.60      | N/A      | 275.00          | 40.0        | 25.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-25      | 23:25      | 00:00    | 06-26    | 0.58  | 17218.00         | 17311.00       | 93.00         | 159.43     | N/A      | 275.00          | 40.0        | 25.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-26      | 00:05      | 00:15    | 06-26    | 0.17  | 17311.00         | 17335.00       | 24.00         | 144.00     | N/A      | 275.00          | 40.0        | 25.00      | 4300.00        | 3350.00         | Lateral           |
| Slide    | 06-26      | 00:15      | 00:35    | 06-26    | 0.33  | 17335.00         | 17343.00       | 8.00          | 24.00      | 30.0     | 275.00          | N/A         | 40.00      | 3850.00        | 3400.00         | Lateral           |
| Rotate   | 06-26      | 00:35      | 01:05    | 06-26    | 0.5   | 17343.00         | 17407.00       | 64.00         | 128.00     | N/A      | 275.00          | 40.0        | 25.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-26      | 01:10      | 01:50    | 06-26    | 0.67  | 17407.00         | 17500.00       | 93.00         | 139.50     | N/A      | 275.00          | 40.0        | 37.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-26      | 01:55      | 02:15    | 06-26    | 0.33  | 17500.00         | 17550.00       | 50.00         | 150.00     | N/A      | 275.00          | 40.0        | 30.00      | 4300.00        | 3350.00         | Lateral           |
| Slide    | 06-26      | 02:15      | 03:15    | 06-26    | 1.0   | 17550.00         | 17580.00       | 30.00         | 30.00      | 210.0    | 275.00          | N/A         | 50.00      | 3850.00        | 3400.00         | Lateral           |
| Rotate   | 06-26      | 03:15      | 03:25    | 06-26    | 0.17  | 17580.00         | 17594.00       | 14.00         | 84.00      | N/A      | 275.00          | 40.0        | 30.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-26      | 03:30      | 03:45    | 06-26    | 0.25  | 17594.00         | 17630.00       | 36.00         | 144.00     | N/A      | 275.00          | 40.0        | 30.00      | 4300.00        | 3350.00         | Lateral           |
| Slide    | 06-26      | 03:45      | 04:35    | 06-26    | 0.83  | 17630.00         | 17660.00       | 30.00         | 36.00      | 180.0    | 275.00          | N/A         | 50.00      | 3850.00        | 3400.00         | Lateral           |
| Rotate   | 06-26      | 04:35      | 04:45    | 06-26    | 0.17  | 17660.00         | 17689.00       | 29.00         | 174.00     | N/A      | 275.00          | 40.0        | 30.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-26      | 04:55      | 05:10    | 06-26    | 0.25  | 17689.00         | 17715.00       | 26.00         | 104.00     | N/A      | 275.00          | 40.0        | 30.00      | 4300.00        | 3350.00         | Lateral           |
| Slide    | 06-26      | 05:10      | 05:45    | 06-26    | 0.58  | 17715.00         | 17737.00       | 22.00         | 37.71      | 120.0    | 275.00          | N/A         | 50.00      | 3850.00        | 3400.00         | Lateral           |
| Rotate   | 06-26      | 05:45      | 06:00    | 06-26    | 0.25  | 17737.00         | 17784.00       | 47.00         | 188.00     | N/A      | 275.00          | 40.0        | 30.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-26      | 06:05      | 06:15    | 06-26    | 0.17  | 17784.00         | 17796.00       | 12.00         | 72.00      | N/A      | 275.00          | 40.0        | 30.00      | 4300.00        | 3350.00         | Lateral           |
| Slide    | 06-26      | 06:15      | 07:30    | 06-26    | 1.25  | 17796.00         | 17836.00       | 40.00         | 32.00      | 90.0     | 275.00          | N/A         | 50.00      | 3850.00        | 3400.00         | Lateral           |
| Rotate   | 06-26      | 07:30      | 07:50    | 06-26    | 0.33  | 17836.00         | 17880.00       | 44.00         | 132.00     | N/A      | 275.00          | 40.0        | 30.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-26      | 07:55      | 08:35    | 06-26    | 0.67  | 17880.00         | 17976.00       | 96.00         | 144.00     | N/A      | 275.00          | 40.0        | 30.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-26      | 08:40      | 08:45    | 06-26    | 0.08  | 17976.00         | 17981.00       | 5.00          | 60.00      | N/A      | 275.00          | 40.0        | 30.00      | 4300.00        | 3350.00         | Lateral           |
| Slide    | 06-26      | 08:45      | 09:50    | 06-26    | 1.08  | 17981.00         | 18016.00       | 35.00         | 32.31      | 90.0     | 275.00          | N/A         | 50.00      | 3850.00        | 3400.00         | Lateral           |
| Rotate   | 06-26      | 09:50      | 10:05    | 06-26    | 0.25  | 18016.00         | 18071.00       | 55.00         | 220.00     | N/A      | 275.00          | 40.0        | 30.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-26      | 10:10      | 10:40    | 06-26    | 0.5   | 18071.00         | 18167.00       | 96.00         | 192.00     | N/A      | 275.00          | 40.0        | 30.00      | 4300.00        | 3350.00         | Lateral           |
| Slide    | 06-26      | 10:50      | 11:40    | 06-26    | 0.83  | 18167.00         | 18207.00       | 40.00         | 48.00      | 180.0    | 275.00          | N/A         | 50.00      | 3850.00        | 3400.00         | Lateral           |
| Rotate   | 06-26      | 11:40      | 12:05    | 06-26    | 0.42  | 18207.00         | 18262.00       | 55.00         | 132.00     | N/A      | 275.00          | 40.0        | 30.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-26      | 12:10      | 12:15    | 06-26    | 0.08  | 18262.00         | 18272.00       | 10.00         | 120.00     | N/A      | 275.00          | 40.0        | 30.00      | 4300.00        | 3350.00         | Lateral           |
| Slide    | 06-26      | 12:15      | 13:05    | 06-26    | 0.83  | 18272.00         | 18312.00       | 40.00         | 48.00      | 180.0    | 275.00          | N/A         | 50.00      | 3850.00        | 3400.00         | Lateral           |
| Rotate   | 06-26      | 13:05      | 13:25    | 06-26    | 0.33  | 18312.00         | 18358.00       | 46.00         | 138.00     | N/A      | 275.00          | 40.0        | 30.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-26      | 13:30      | 13:35    | 06-26    | 0.08  | 18358.00         | 18370.00       | 12.00         | 144.00     | N/A      | 275.00          | 40.0        | 30.00      | 4300.00        | 3350.00         | Lateral           |
| Slide    | 06-26      | 13:35      | 14:10    | 06-26    | 0.58  | 18370.00         | 18400.00       | 30.00         | 51.43      | 150.0    | 275.00          | N/A         | 50.00      | 3850.00        | 3400.00         | Lateral           |
| Rotate   | 06-26      | 14:10      | 14:30    | 06-26    | 0.33  | 18400.00         | 18452.00       | 52.00         | 156.00     | N/A      | 275.00          | 40.0        | 30.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-26      | 14:35      | 15:20    | 06-26    | 0.75  | 18452.00         | 18548.00       | 96.00         | 128.00     | N/A      | 275.00          | 40.0        | 30.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-26      | 15:25      | 15:55    | 06-26    | 0.5   | 18548.00         | 18642.00       | 94.00         | 188.00     | N/A      | 275.00          | 40.0        | 30.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-26      | 16:00      | 16:05    | 06-26    | 0.08  | 18642.00         | 18652.00       | 10.00         | 120.00     | N/A      | 275.00          | 40.0        | 30.00      | 4300.00        | 3350.00         | Lateral           |
| Slide    | 06-26      | 16:05      | 17:20    | 06-26    | 1.25  | 18652.00         | 18692.00       | 40.00         | 32.00      | 100.0    | 275.00          | N/A         | 50.00      | 3850.00        | 3400.00         | Lateral           |
| Rotate   | 06-26      | 17:20      | 17:40    | 06-26    | 0.33  | 18692.00         | 18738.00       | 46.00         | 138.00     | N/A      | 275.00          | 40.0        | 30.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-26      | 17:45      | 18:20    | 06-26    | 0.58  | 18738.00         | 18831.00       | 93.00         | 159.43     | N/A      | 275.00          | 40.0        | 35.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-26      | 18:25      | 19:00    | 06-26    | 0.58  | 18831.00         | 18927.00       | 96.00         | 164.57     | N/A      | 275.00          | 40.0        | 35.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-26      | 19:05      | 19:15    | 06-26    | 0.17  | 18927.00         | 18950.00       | 23.00         | 138.00     | N/A      | 275.00          | 40.0        | 35.00      | 4300.00        | 3350.00         | Lateral           |
| Slide    | 06-26      | 19:15      | 19:45    | 06-26    | 0.5   | 18950.00         | 18960.00       | 10.00         | 20.00      | 210.0    | 275.00          | N/A         | 50.00      | 3850.00        | 3400.00         | Lateral           |
| Rotate   | 06-26      | 19:45      | 20:10    | 06-26    | 0.42  | 18960.00         | 19023.00       | 63.00         | 151.20     | N/A      | 275.00          | 40.0        | 35.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-26      | 20:15      | 20:25    | 06-26    | 0.17  | 19023.00         | 19040.00       | 17.00         | 102.00     | N/A      | 275.00          | 40.0        | 35.00      | 4300.00        | 3350.00         | Lateral           |
| Slide    | 06-26      | 21:05      | 21:30    | 06-26    | 0.42  | 19040.00         | 19050.00       | 10.00         | 24.00      | 210.0    | 275.00          | N/A         | 50.00      | 4500.00        | 4200.00         | Lateral           |
| Rotate   | 06-26      | 21:30      | 21:55    | 06-26    | 0.42  | 19050.00         | 19117.00       | 67.00         | 160.80     | N/A      | 275.00          | 40.0        | 35.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-26      | 22:00      | 22:10    | 06-26    | 0.17  | 19117.00         | 19130.00       | 13.00         | 78.00      | N/A      | 275.00          | 40.0        | 35.00      | 4300.00        | 3350.00         | Lateral           |
| Slide    | 06-26      | 22:10      | 23:30    | 06-26    | 1.33  | 19130.00         | 19160.00       | 30.00         | 22.50      | 225.0    | 275.00          | N/A         | 50.00      | 4500.00        | 4200.00         | Lateral           |
| Rotate   | 06-26      | 23:30      | 23:45    | 06-26    | 0.25  | 19160.00         | 19211.00       | 51.00         | 204.00     | N/A      | 275.00          | 40.0        | 35.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-26      | 23:50      | 00:00    | 06-27    | 0.17  | 19211.00         | 19220.00       | 9.00          | 54.00      | N/A      | 275.00          | 40.0        | 35.00      | 4300.00        | 3350.00         | Lateral           |
| Slide    | 06-27      | 00:00      | 00:40    | 06-27    | 0.67  | 19220.00         | 19236.00       | 16.00         | 24.00      | 210.0    | 275.00          | N/A         | 50.00      | 4500.00        | 4200.00         | Lateral           |
| Rotate   | 06-27      | 00:40      | 01:05    | 06-27    | 0.42  | 19236.00         | 19306.00       | 70.00         | 168.00     | N/A      | 275.00          | 40.0        | 35.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-27      | 01:10      | 01:45    | 06-27    | 0.58  | 19306.00         | 19400.00       | 94.00         | 161.14     | N/A      | 275.00          | 40.0        | 35.00      | 4300.00        | 3350.00         | Lateral           |
| Rotate   | 06-27      | 01:50      | 02:00    | 06-27    | 0.17  | 19400.00         | 19415.00       | 15.00         | 90.00      | N/A      | 275.00          | 40.0        | 35.00      | 4300.00        | 3350.00         | Lateral           |
| Slide    | 06-27      | 02:00      | 03:15    | 06-27    | 1.25  | 19415.00         | 19440.00       | 25.00         | 20.00      | 225.0    | 275.00          | N/A         | 50.00      | 4500.00        | 4200.00         | Lateral           |

|        |       |       |       |       |      |          |          |       |        |       |        |      |       |         |         |         |
|--------|-------|-------|-------|-------|------|----------|----------|-------|--------|-------|--------|------|-------|---------|---------|---------|
| Rotate | 06-27 | 03:15 | 03:35 | 06-27 | 0.33 | 19440.00 | 19495.00 | 55.00 | 165.00 | N/A   | 275.00 | 40.0 | 35.00 | 4300.00 | 3350.00 | Lateral |
| Rotate | 06-27 | 03:45 | 04:00 | 06-27 | 0.25 | 19495.00 | 19510.00 | 15.00 | 60.00  | N/A   | 275.00 | 40.0 | 35.00 | 4300.00 | 3350.00 | Lateral |
| Slide  | 06-27 | 04:00 | 05:05 | 06-27 | 1.08 | 19510.00 | 19535.00 | 25.00 | 23.08  | 180.0 | 275.00 | N/A  | 50.00 | 4500.00 | 4200.00 | Lateral |
| Rotate | 06-27 | 05:05 | 05:20 | 06-27 | 0.25 | 19535.00 | 19590.00 | 55.00 | 220.00 | N/A   | 275.00 | 40.0 | 35.00 | 4300.00 | 3350.00 | Lateral |
| Rotate | 06-27 | 05:30 | 05:45 | 06-27 | 0.25 | 19590.00 | 19605.00 | 15.00 | 60.00  | N/A   | 275.00 | 40.0 | 35.00 | 4300.00 | 3350.00 | Lateral |
| Slide  | 06-27 | 05:45 | 06:50 | 06-27 | 1.08 | 19605.00 | 19645.00 | 40.00 | 36.92  | 90.0  | 275.00 | N/A  | 50.00 | 4500.00 | 4200.00 | Lateral |
| Rotate | 06-27 | 06:50 | 07:10 | 06-27 | 0.33 | 19645.00 | 19685.00 | 40.00 | 120.00 | N/A   | 275.00 | 40.0 | 35.00 | 4300.00 | 3350.00 | Lateral |
| Rotate | 06-27 | 07:15 | 07:25 | 06-27 | 0.17 | 19685.00 | 19706.00 | 21.00 | 126.00 | N/A   | 275.00 | 40.0 | 35.00 | 4300.00 | 3350.00 | Lateral |
| Slide  | 06-27 | 07:25 | 08:00 | 06-27 | 0.58 | 19706.00 | 19721.00 | 15.00 | 25.71  | 50.0  | 275.00 | N/A  | 50.00 | 4500.00 | 4200.00 | Lateral |
| Rotate | 06-27 | 08:00 | 08:20 | 06-27 | 0.33 | 19721.00 | 19779.00 | 58.00 | 174.00 | N/A   | 275.00 | 40.0 | 35.00 | 4300.00 | 3350.00 | Lateral |
| Rotate | 06-27 | 08:25 | 08:30 | 06-27 | 0.08 | 19779.00 | 19789.00 | 10.00 | 120.00 | N/A   | 275.00 | 40.0 | 35.00 | 4300.00 | 3350.00 | Lateral |
| Slide  | 06-27 | 08:30 | 09:15 | 06-27 | 0.75 | 19789.00 | 19814.00 | 25.00 | 33.33  | 20.0  | 275.00 | N/A  | 50.00 | 4500.00 | 4200.00 | Lateral |
| Rotate | 06-27 | 09:15 | 09:35 | 06-27 | 0.33 | 19814.00 | 19874.00 | 60.00 | 180.00 | N/A   | 275.00 | 40.0 | 35.00 | 4300.00 | 3350.00 | Lateral |
| Slide  | 06-27 | 09:40 | 10:50 | 06-27 | 1.17 | 19874.00 | 19919.00 | 45.00 | 38.57  | 0.0   | 275.00 | N/A  | 50.00 | 4500.00 | 4200.00 | Lateral |
| Rotate | 06-27 | 10:50 | 11:15 | 06-27 | 0.42 | 19919.00 | 19969.00 | 50.00 | 120.00 | N/A   | 275.00 | 40.0 | 35.00 | 4300.00 | 3350.00 | Lateral |
| Rotate | 06-27 | 11:20 | 11:55 | 06-27 | 0.58 | 19969.00 | 20063.00 | 94.00 | 161.14 | N/A   | 275.00 | 40.0 | 35.00 | 4300.00 | 3350.00 | Lateral |
| Slide  | 06-27 | 12:05 | 13:30 | 06-27 | 1.42 | 20063.00 | 20108.00 | 45.00 | 31.76  | 145.0 | 275.00 | N/A  | 50.00 | 4500.00 | 4200.00 | Lateral |
| Rotate | 06-27 | 13:30 | 13:45 | 06-27 | 0.25 | 20108.00 | 20157.00 | 49.00 | 196.00 | N/A   | 275.00 | 40.0 | 35.00 | 4300.00 | 3350.00 | Lateral |
| Rotate | 06-27 | 13:50 | 14:05 | 06-27 | 0.25 | 20157.00 | 20177.00 | 20.00 | 80.00  | N/A   | 275.00 | 40.0 | 35.00 | 4300.00 | 3350.00 | Lateral |
| Slide  | 06-27 | 14:05 | 14:45 | 06-27 | 0.67 | 20177.00 | 20197.00 | 20.00 | 30.00  | 180.0 | 275.00 | N/A  | 50.00 | 4500.00 | 4200.00 | Lateral |
| Rotate | 06-27 | 14:45 | 15:05 | 06-27 | 0.33 | 20197.00 | 20250.00 | 53.00 | 159.00 | N/A   | 275.00 | 40.0 | 35.00 | 4300.00 | 3350.00 | Lateral |
| Rotate | 06-27 | 15:10 | 15:35 | 06-27 | 0.42 | 20250.00 | 20310.00 | 60.00 | 144.00 | N/A   | 275.00 | 40.0 | 35.00 | 4300.00 | 3350.00 | Lateral |



# Daily Reports

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## Dagger State Com 804H (WT-21-069)

2021-06-01 to 2021-07-02

Lea, New Mexico, US (32.45, -103.62)

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|                                                                                   |                                 |                                                     |                      |                                                       |
|-----------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------|----------------------|-------------------------------------------------------|
|  | <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          |                      | <b>Rig Name</b><br>Nabors X50                         |
|                                                                                   | <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           |                      | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
|                                                                                   | <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea | <b>Company Man</b>                                    |

**Tuesday, Jun 01 00:00 - 23:59 (Day 1 of 24)** **Billing:** N/A (\$150,591.57 total)

| Drilling Summary        |      |                     |  | Drilling Parameters |                           |
|-------------------------|------|---------------------|--|---------------------|---------------------------|
| Start Depth (ft)        |      | Downhole Hours      |  | 0.00                | Rotating WOB (klbs)       |
| Bit Depth (ft)          |      | Drilling Hours      |  | 0.00                | Sliding WOB (klbs)        |
| Bottom Hole Depth (ft)  |      | Hours Circulating   |  | 0.00                | Rotating SPM              |
| Total Distance (ft)     | 0.00 | Hours Sliding       |  | 0.00                | Sliding SPM               |
| Distance Rotated (ft)   | 0.00 | Hours Rotating      |  | 0.00                | Motor RPM                 |
| Distance Slid (ft)      | 0.00 |                     |  |                     | Surface RPM               |
| Inclination In          |      |                     |  |                     | Flow Rate (gpm)           |
| Inclination Out         |      |                     |  |                     | On Bottom Pressure (psi)  |
| Azimuth In              |      | % Hours Rotating    |  |                     | Off Bottom Pressure (psi) |
| Azimuth Out             |      | % Hours Sliding     |  |                     |                           |
| AVG Total ROP (ft/h)    | 0.00 | % Distance Sliding  |  |                     |                           |
| AVG Rotating ROP (ft/h) | 0.00 | % Distance Rotating |  |                     |                           |
| AVG Sliding ROP (ft/h)  | 0.00 |                     |  |                     |                           |

| Personnel           |                     |
|---------------------|---------------------|
| Name                | Position            |
| Advance Directional | Directional Driller |
| No BHAs             |                     |

| Directional Activities |      |            |            |          |          |            |          |                        |
|------------------------|------|------------|------------|----------|----------|------------|----------|------------------------|
| Activity Type          | Code | Start Date | Start Time | End Time | End Date | Start (ft) | End (ft) | Comments/Details       |
| Standby                | 15   | 06-01      | 00:00      | 04:30    | 06-01    |            |          | Standby while Rig Move |
| Standby                | 15   | 06-01      | 04:30      | 04:45    | 06-01    |            |          | Standby / Casing Ops   |

| MWD Activities |  |  |  |  |  |  |  |  |
|----------------|--|--|--|--|--|--|--|--|
| No Activities  |  |  |  |  |  |  |  |  |



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
| <b>Company Man</b>              |                                                     |                                                       |

Thursday, Jun 10 00:00 - 23:59 (Day 2 of 24)

Billing: N/A (\$150,591.57 total)

| Drilling Summary        |      |                     |      | Drilling Parameters       |                |
|-------------------------|------|---------------------|------|---------------------------|----------------|
| Start Depth (ft)        |      | Downhole Hours      | 2.17 | Rotating WOB (klbs)       |                |
| Bit Depth (ft)          |      | Drilling Hours      | 0.00 | Sliding WOB (klbs)        |                |
| Bottom Hole Depth (ft)  |      | Hours Circulating   | 0.03 | Rotating SPM              |                |
| Total Distance (ft)     | 0.00 | Hours Sliding       | 0.00 | Sliding SPM               |                |
| Distance Rotated (ft)   | 0.00 | Hours Rotating      | 0.00 | Motor RPM                 | 40.00 - 160.00 |
| Distance Slid (ft)      | 0.00 |                     |      | Surface RPM               |                |
| Inclination In          |      |                     |      | Flow Rate (gpm)           |                |
| Inclination Out         |      |                     |      | On Bottom Pressure (psi)  |                |
| Azimuth In              |      | % Hours Rotating    |      | Off Bottom Pressure (psi) |                |
| Azimuth Out             |      | % Hours Sliding     |      |                           |                |
| AVG Total ROP (ft/h)    | 0.00 | % Distance Sliding  |      |                           |                |
| AVG Rotating ROP (ft/h) | 0.00 | % Distance Rotating |      |                           |                |
| AVG Sliding ROP (ft/h)  | 0.00 |                     |      |                           |                |

## Personnel

| Name                | Position            |
|---------------------|---------------------|
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

## BHA #1 - BHA #1 - 14.75" Surface

Date In: Jun 10, 2021, 21:50 Date Out: Jun 11, 2021, 10:15

| Bit Details                |         | Motor Details    | Directional Comments                                                                                                                    |
|----------------------------|---------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| OD (in)                    | 14.750  | Size (in)        | 8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 12" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 3 Runs |
| Vendor                     | REED    | Lobe/Stage       | 7/8, 5.9                                                                                                                                |
| S/N                        | A271051 | Bend Angle       | 1.75                                                                                                                                    |
| Nozzles                    | 6x16's  | Speed (rev/gal)  | 0.15                                                                                                                                    |
| Total Flow Area (in²)      | 1.178   | Wear Pad OD (in) | 8.250                                                                                                                                   |
| Drilling Hours for Day     | 0.00    | Bit Distances    |                                                                                                                                         |
| Total Drilled for Day (ft) |         | Survey: 70.00 ft |                                                                                                                                         |
| Drilling Hours for BHA     | 5.08    |                  |                                                                                                                                         |
| Total Drilled for BHA (ft) | 1465.00 |                  |                                                                                                                                         |
|                            |         |                  | <b>POOH Reason</b>                                                                                                                      |
|                            |         |                  | Total Depth/Casing Point                                                                                                                |

## Directional Items

| Description                                                                                                                                                    | Vendor        | SN#         | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: NOV TK69, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 0.40, Size (in): 14.75                    | REED          | A271051     | 6 5/8" Reg Pin |                |         | 14.750  |              | 1.50     | 1.50           |
| <b>Mud Motor</b><br>Description: 8" 7/8 5.9 Stg. 1.75° FBH w/ 12" NBS, Size (in): 8.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.9 | Butch's       | BDT-800-017 | 6 5/8" Reg Box | 6 5/8" Reg Box |         | 8.000   |              | 37.42    | 38.92          |
| <b>Stabilizer</b><br>Description: 12" NT Stabilizer                                                                                                            | JAO           | JAO 12379   | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.000   | 8.250   |              | 6.84     | 45.76          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                               | AIM           | 800613      | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.000   |              | 3.00     | 48.76          |
| <b>Drill Collar</b><br>Description: NMDC (Spacer), Material: Non-Magnetic, Type: Slick Drill                                                                   | AIM           | DY800009MJ  | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.21    | 78.97          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                                 | AIM           | DY80013MJ   | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.25    | 109.22         |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                                  | BLACK DIAMOND | BD14829     | EverDrlg54 Box | 6 5/8" Reg Pin | 2.750   | 8.000   |              | 3.17     | 112.39         |

## MWD Items

No Items

## Directional Activities

| Activity Type | Code | Start Date | Start Time | End Time | End Date | Start (ft) | End (ft) | Comments/Details |
|---------------|------|------------|------------|----------|----------|------------|----------|------------------|
|---------------|------|------------|------------|----------|----------|------------|----------|------------------|

|                 |    |       |       |       |       |        |        |                                                                                               |
|-----------------|----|-------|-------|-------|-------|--------|--------|-----------------------------------------------------------------------------------------------|
| Other           | 16 | 06-10 | 00:00 | 21:50 | 06-10 |        |        | Skid from 556H                                                                                |
| Pick Up BHA     | 64 | 06-10 | 21:50 | 23:00 | 06-10 |        |        |                                                                                               |
| Drilling Cement | 17 | 06-10 | 23:00 | 23:02 | 06-10 | 120.00 | 120.00 | Drilling Cement and Float Equipment F/ ?? - T/ ?? [ GPM = ??, RPM = ??, WOB = ??, DIFF = ?? ] |
| Standby         | 15 | 06-10 | 23:02 | 00:00 | 06-11 |        |        | WAITING ON RIG OPS                                                                            |

MWD Activities

No Activities



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
| <b>Company Man</b>              |                                                     |                                                       |

Friday, Jun 11 00:00 - 23:59 (Day 3 of 24)

Billing: \$17,000.00 (\$150,591.57 total)

| Drilling Summary        |         |                     |       | Drilling Parameters       |                  |
|-------------------------|---------|---------------------|-------|---------------------------|------------------|
| Start Depth (ft)        | 120.00  | Downhole Hours      | 10.25 | Rotating WOB (klbs)       | 2.00 - 17.00     |
| Bit Depth (ft)          | 1585.00 | Drilling Hours      | 5.08  | Sliding WOB (klbs)        |                  |
| Bottom Hole Depth (ft)  | 1585.00 | Hours Circulating   | 1.00  | Rotating SPM              | 174.00 - 276.00  |
| Total Distance (ft)     | 1465.00 | Hours Sliding       | 0.00  | Sliding SPM               |                  |
| Distance Rotated (ft)   | 1465.00 | Hours Rotating      | 5.08  | Motor RPM                 | 40.00 - 160.00   |
| Distance Slid (ft)      | 0.00    |                     |       | Surface RPM               | 40.00 - 40.00    |
| Inclination In          | 0.53    |                     |       | Flow Rate (gpm)           | 500.00 - 800.00  |
| Inclination Out         | 0.75    |                     |       | On Bottom Pressure (psi)  | 750.00 - 1450.00 |
| Azimuth In              | 96.26   | % Hours Rotating    | 100%  | Off Bottom Pressure (psi) | 450.00 - 1000.00 |
| Azimuth Out             | 167.01  | % Hours Sliding     | 0%    |                           |                  |
| AVG Total ROP (ft/h)    | 288.20  | % Distance Sliding  | 0%    |                           |                  |
| AVG Rotating ROP (ft/h) | 288.20  | % Distance Rotating | 100%  |                           |                  |
| AVG Sliding ROP (ft/h)  | 0.00    |                     |       |                           |                  |

## Personnel

| Name                | Position            |
|---------------------|---------------------|
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

## BHA #1 - BHA #1 - 14.75" Surface

Date In: Jun 10, 2021, 21:50 Date Out: Jun 11, 2021, 10:15

| Bit Details                |         | Motor Details    | Directional Comments                                                                                                                    |
|----------------------------|---------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| OD (in)                    | 14.750  | Size (in)        | 8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 12" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 3 Runs |
| Vendor                     | REED    | Lobe/Stage       | 7/8, 5.9                                                                                                                                |
| S/N                        | A271051 | Bend Angle       | 1.75                                                                                                                                    |
| Nozzles                    | 6x16's  | Speed (rev/gal)  | 0.15                                                                                                                                    |
| Total Flow Area (in²)      | 1.178   | Wear Pad OD (in) | 8.250                                                                                                                                   |
| Drilling Hours for Day     | 5.08    | Bit Distances    |                                                                                                                                         |
| Total Drilled for Day (ft) | 1465.00 | Survey: 70.00 ft |                                                                                                                                         |
| Drilling Hours for BHA     | 5.08    |                  |                                                                                                                                         |
| Total Drilled for BHA (ft) | 1465.00 |                  |                                                                                                                                         |
|                            |         |                  | <b>POOH Reason</b>                                                                                                                      |
|                            |         |                  | Total Depth/Casing Point                                                                                                                |

## Directional Items

| Description                                                                                                                                                    | Vendor        | SN#         | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: NOV TK69, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 0.40, Size (in): 14.75                    | REED          | A271051     | 6 5/8" Reg Pin |                |         | 14.750  |              | 1.50     | 1.50           |
| <b>Mud Motor</b><br>Description: 8" 7/8 5.9 Stg. 1.75° FBH w/ 12" NBS, Size (in): 8.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.9 | Butch's       | BDT-800-017 | 6 5/8" Reg Box | 6 5/8" Reg Box |         | 8.000   |              | 37.42    | 38.92          |
| <b>Stabilizer</b><br>Description: 12" NT Stabilizer                                                                                                            | JAO           | JAO 12379   | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.000   | 8.250   |              | 6.84     | 45.76          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                               | AIM           | 800613      | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.000   |              | 3.00     | 48.76          |
| <b>Drill Collar</b><br>Description: NMDC (Spacer), Material: Non-Magnetic, Type: Slick Drill                                                                   | AIM           | DY800009MJ  | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.21    | 78.97          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                                 | AIM           | DY80013MJ   | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.25    | 109.22         |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                                  | BLACK DIAMOND | BD14829     | EverDrlg54 Box | 6 5/8" Reg Pin | 2.750   | 8.000   |              | 3.17     | 112.39         |

## MWD Items

No Items

## Directional Activities

| Activity Type | Code | Start Date | Start Time | End Time | End Date | Start (ft) | End (ft) | Comments/Details |
|---------------|------|------------|------------|----------|----------|------------|----------|------------------|
|---------------|------|------------|------------|----------|----------|------------|----------|------------------|

|              |    |       |       |       |       |         |         |                                                                                                                                                                                               |
|--------------|----|-------|-------|-------|-------|---------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standby      | 15 | 06-10 | 23:02 | 00:00 | 06-11 |         |         | WAITING ON RIG OPS                                                                                                                                                                            |
| Rotary Drill | 1  | 06-11 | 00:00 | 00:35 | 06-11 | 120.00  | 268.00  | Pressure On (psi): 750.00, Pressure Off (psi): 450.00, Weight On Bit (klbs): 2.00, Surface RPM: 40, Surface Torque (ft lbf): 5500.00, Flow Rate (gpm): 500.00, Strokes Per Minute: 174.00     |
| Survey       | 46 | 06-11 | 00:35 | 00:40 | 06-11 | 268.00  | 268.00  | Inclination (°): 0.530, Azimuth (°): 96.260, TVD (ft): 198.00, Dogleg (%/100 ft): 0.27, Sensor Depth (ft): 198.00, Bit To Sensor (ft): 70.00                                                  |
| Rotary Drill | 1  | 06-11 | 00:40 | 01:05 | 06-11 | 268.00  | 392.00  | Pressure On (psi): 750.00, Pressure Off (psi): 450.00, Weight On Bit (klbs): 2.00, Surface RPM: 40, Surface Torque (ft lbf): 5500.00, Flow Rate (gpm): 500.00, Strokes Per Minute: 174.00     |
| Survey       | 46 | 06-11 | 01:05 | 01:10 | 06-11 | 392.00  | 392.00  | Inclination (°): 0.790, Azimuth (°): 97.130, TVD (ft): 321.99, Dogleg (%/100 ft): 0.21, Sensor Depth (ft): 322.00, Bit To Sensor (ft): 70.00                                                  |
| Rotary Drill | 1  | 06-11 | 01:10 | 01:30 | 06-11 | 392.00  | 485.00  | Pressure On (psi): 750.00, Pressure Off (psi): 450.00, Weight On Bit (klbs): 2.00, Surface RPM: 40, Surface Torque (ft lbf): 5500.00, Flow Rate (gpm): 500.00, Strokes Per Minute: 174.00     |
| Survey       | 46 | 06-11 | 01:30 | 01:35 | 06-11 | 485.00  | 485.00  | Inclination (°): 0.970, Azimuth (°): 97.660, TVD (ft): 414.98, Dogleg (%/100 ft): 0.19, Sensor Depth (ft): 415.00, Bit To Sensor (ft): 70.00                                                  |
| Rotary Drill | 1  | 06-11 | 01:35 | 01:50 | 06-11 | 485.00  | 579.00  | Pressure On (psi): 1450.00, Pressure Off (psi): 1000.00, Weight On Bit (klbs): 17.00, Surface RPM: 40, Surface Torque (ft lbf): 10000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 276.00 |
| Survey       | 46 | 06-11 | 01:50 | 01:55 | 06-11 | 579.00  | 579.00  | Inclination (°): 1.010, Azimuth (°): 98.280, TVD (ft): 508.96, Dogleg (%/100 ft): 0.04, Sensor Depth (ft): 509.00, Bit To Sensor (ft): 70.00                                                  |
| Rotary Drill | 1  | 06-11 | 01:55 | 02:10 | 06-11 | 579.00  | 672.00  | Pressure On (psi): 1450.00, Pressure Off (psi): 1000.00, Weight On Bit (klbs): 17.00, Surface RPM: 40, Surface Torque (ft lbf): 10000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 276.00 |
| Survey       | 46 | 06-11 | 02:10 | 02:15 | 06-11 | 672.00  | 672.00  | Inclination (°): 1.140, Azimuth (°): 86.940, TVD (ft): 601.95, Dogleg (%/100 ft): 0.27, Sensor Depth (ft): 602.00, Bit To Sensor (ft): 70.00                                                  |
| Rotary Drill | 1  | 06-11 | 02:15 | 02:30 | 06-11 | 672.00  | 765.00  | Pressure On (psi): 1450.00, Pressure Off (psi): 1000.00, Weight On Bit (klbs): 17.00, Surface RPM: 40, Surface Torque (ft lbf): 10000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 276.00 |
| Survey       | 46 | 06-11 | 02:30 | 02:35 | 06-11 | 765.00  | 765.00  | Inclination (°): 1.410, Azimuth (°): 93.970, TVD (ft): 694.92, Dogleg (%/100 ft): 0.34, Sensor Depth (ft): 695.00, Bit To Sensor (ft): 70.00                                                  |
| Rotary Drill | 1  | 06-11 | 02:35 | 02:50 | 06-11 | 765.00  | 859.00  | Pressure On (psi): 1450.00, Pressure Off (psi): 1000.00, Weight On Bit (klbs): 17.00, Surface RPM: 40, Surface Torque (ft lbf): 10000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 276.00 |
| Survey       | 46 | 06-11 | 02:50 | 02:55 | 06-11 | 859.00  | 859.00  | Inclination (°): 1.410, Azimuth (°): 86.850, TVD (ft): 788.90, Dogleg (%/100 ft): 0.19, Sensor Depth (ft): 789.00, Bit To Sensor (ft): 70.00                                                  |
| Rotary Drill | 1  | 06-11 | 02:55 | 03:10 | 06-11 | 859.00  | 952.00  | Pressure On (psi): 1450.00, Pressure Off (psi): 1000.00, Weight On Bit (klbs): 17.00, Surface RPM: 40, Surface Torque (ft lbf): 10000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 276.00 |
| Survey       | 46 | 06-11 | 03:10 | 03:15 | 06-11 | 952.00  | 952.00  | Inclination (°): 1.540, Azimuth (°): 87.380, TVD (ft): 881.87, Dogleg (%/100 ft): 0.14, Sensor Depth (ft): 882.00, Bit To Sensor (ft): 70.00                                                  |
| Rotary Drill | 1  | 06-11 | 03:15 | 03:35 | 06-11 | 952.00  | 1045.00 | Pressure On (psi): 1450.00, Pressure Off (psi): 1000.00, Weight On Bit (klbs): 17.00, Surface RPM: 40, Surface Torque (ft lbf): 10000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 276.00 |
| Survey       | 46 | 06-11 | 03:35 | 03:40 | 06-11 | 1045.00 | 1045.00 | Inclination (°): 1.540, Azimuth (°): 91.330, TVD (ft): 974.83, Dogleg (%/100 ft): 0.11, Sensor Depth (ft): 975.00, Bit To Sensor (ft): 70.00                                                  |
| Rotary Drill | 1  | 06-11 | 03:40 | 04:05 | 06-11 | 1045.00 | 1138.00 | Pressure On (psi): 1450.00, Pressure Off (psi): 1000.00, Weight On Bit (klbs): 17.00, Surface RPM: 40, Surface Torque (ft lbf): 10000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 276.00 |
| Survey       | 46 | 06-11 | 04:05 | 04:10 | 06-11 | 1138.00 | 1138.00 | Inclination (°): 1.320, Azimuth (°): 90.890, TVD (ft): 1067.80, Dogleg (%/100 ft): 0.24, Sensor Depth (ft): 1068.00, Bit To Sensor (ft): 70.00                                                |
| Rotary Drill | 1  | 06-11 | 04:10 | 04:30 | 06-11 | 1138.00 | 1232.00 | Pressure On (psi): 1450.00, Pressure Off (psi): 1000.00, Weight On Bit (klbs): 17.00, Surface RPM: 40, Surface Torque (ft lbf): 10000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 276.00 |
| Survey       | 46 | 06-11 | 04:30 | 04:45 | 06-11 | 1232.00 | 1232.00 | Inclination (°): 1.050, Azimuth (°): 90.720, TVD (ft): 1161.78, Dogleg (%/100 ft): 0.29, Sensor Depth (ft): 1162.00, Bit To Sensor (ft): 70.00                                                |
| Rotary Drill | 1  | 06-11 | 04:45 | 05:05 | 06-11 | 1232.00 | 1325.00 | Pressure On (psi): 1450.00, Pressure Off (psi): 1000.00, Weight On Bit (klbs): 17.00, Surface RPM: 40, Surface Torque (ft lbf): 10000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 276.00 |
| Survey       | 46 | 06-11 | 05:05 | 05:10 | 06-11 | 1325.00 | 1325.00 | Inclination (°): 0.570, Azimuth (°): 108.470, TVD (ft): 1254.77, Dogleg (%/100 ft): 0.58, Sensor Depth (ft): 1255.00, Bit To Sensor (ft): 70.00                                               |
| Rotary Drill | 1  | 06-11 | 05:10 | 05:25 | 06-11 | 1325.00 | 1415.00 | Pressure On (psi): 1450.00, Pressure Off (psi): 1000.00, Weight On Bit (klbs): 17.00, Surface RPM: 40, Surface Torque (ft lbf): 10000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 276.00 |
| Survey       | 46 | 06-11 | 05:25 | 05:45 | 06-11 | 1415.00 | 1415.00 | Inclination (°): 0.480, Azimuth (°): 155.320, TVD (ft): 1344.77, Dogleg (%/100 ft): 0.47, Sensor Depth (ft): 1345.00, Bit To Sensor (ft): 70.00                                               |

|              |    |       |       |       |       |         |         |                                                                                                                                                                                               |
|--------------|----|-------|-------|-------|-------|---------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rotary Drill | 1  | 06-11 | 05:45 | 06:05 | 06-11 | 1415.00 | 1504.00 | Pressure On (psi): 1450.00, Pressure Off (psi): 1000.00, Weight On Bit (klbs): 17.00, Surface RPM: 40, Surface Torque (ft lbf): 10000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 276.00 |
| Survey       | 46 | 06-11 | 06:05 | 06:10 | 06-11 | 1504.00 | 1504.00 | Inclination (°): 0.620, Azimuth (°): 169.730, TVD (ft): 1433.77, Dogleg (°/100 ft): 0.22, Sensor Depth (ft): 1434.00, Bit To Sensor (ft): 70.00                                               |
| Rotary Drill | 1  | 06-11 | 06:10 | 06:40 | 06-11 | 1504.00 | 1585.00 | Pressure On (psi): 1450.00, Pressure Off (psi): 1000.00, Weight On Bit (klbs): 17.00, Surface RPM: 40, Surface Torque (ft lbf): 10000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 276.00 |
| Survey       | 46 | 06-11 | 06:40 | 06:45 | 06-11 | 1585.00 | 1585.00 | Inclination (°): 0.750, Azimuth (°): 167.010, TVD (ft): 1514.76, Dogleg (°/100 ft): 0.17, Sensor Depth (ft): 1515.00, Bit To Sensor (ft): 70.00                                               |
| Circulating  | 3  | 06-11 | 06:45 | 07:45 | 06-11 |         |         | Circulate @ TD (1585')                                                                                                                                                                        |
| Pooh         | 7  | 06-11 | 07:45 | 09:00 | 06-11 |         |         | POOH- TD surface section                                                                                                                                                                      |
| Change BHA   | 6  | 06-11 | 09:00 | 10:15 | 06-11 |         |         | P/U BHA # 2- L/D BHA #1                                                                                                                                                                       |
| Standby      | 15 | 06-11 | 10:15 | 01:10 | 06-12 |         |         | Standby                                                                                                                                                                                       |

**MWD Activities**

No Activities



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

Saturday, Jun 12 00:00 - 23:59 (Day 4 of 24)

Billing: \$5,800.00 (\$150,591.57 total)

| Drilling Summary        |         |                     |       | Drilling Parameters       |                   |
|-------------------------|---------|---------------------|-------|---------------------------|-------------------|
| Start Depth (ft)        | 1585.00 | Downhole Hours      | 21.50 | Rotating WOB (klbs)       | 35.00 - 50.00     |
| Bit Depth (ft)          | 4626.00 | Drilling Hours      | 13.17 | Sliding WOB (klbs)        | 15.00 - 20.00     |
| Bottom Hole Depth (ft)  | 4626.00 | Hours Circulating   | 2.42  | Rotating SPM              | 221.00 - 275.00   |
| Total Distance (ft)     | 3041.00 | Hours Sliding       | 1.50  | Sliding SPM               | 231.00 - 275.00   |
| Distance Rotated (ft)   | 2965.00 | Hours Rotating      | 11.67 | Motor RPM                 | 50.00 - 70.00     |
| Distance Slid (ft)      | 76.00   |                     |       | Surface RPM               | 35.00 - 60.00     |
| Inclination In          | 0.57    |                     |       | Flow Rate (gpm)           | 643.00 - 800.00   |
| Inclination Out         | 1.63    |                     |       | On Bottom Pressure (psi)  | 1800.00 - 2800.00 |
| Azimuth In              | 166.04  | % Hours Rotating    | 89%   | Off Bottom Pressure (psi) | 1150.00 - 2100.00 |
| Azimuth Out             | 184.85  | % Hours Sliding     | 11%   |                           |                   |
| AVG Total ROP (ft/h)    | 230.96  | % Distance Sliding  | 2%    |                           |                   |
| AVG Rotating ROP (ft/h) | 254.14  | % Distance Rotating | 98%   |                           |                   |
| AVG Sliding ROP (ft/h)  | 50.67   |                     |       |                           |                   |

## Personnel

| Name                | Position            |
|---------------------|---------------------|
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

## BHA #2 - 9 7/8 Intermediate

Date In: Jun 12, 2021, 2:30 Date Out: Jun 14, 2021, 0:15

| Bit Details                |         | Motor Details                     |          | Directional Comments                                                                                                                       |  |
|----------------------------|---------|-----------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------|--|
| OD (in)                    | 9.875   | Size (in)                         | 8.0      | 8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 9 5/8" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 0 Runs |  |
| Vendor                     | REED    | Lobe/Stage                        | 7/8, 5.9 |                                                                                                                                            |  |
| S/N                        | A269341 | Bend Angle                        | 1.75     |                                                                                                                                            |  |
| Nozzles                    | 7 x 14  | Speed (rev/gal)                   | 0.15     |                                                                                                                                            |  |
| Total Flow Area (in²)      | 1.052   | Wear Pad OD (in)                  | 8.313    | MWD Comments                                                                                                                               |  |
| Drilling Hours for Day     | 13.17   | Bit Distances                     |          |                                                                                                                                            |  |
| Total Drilled for Day (ft) | 3041.00 | Survey (Bit to Sensor): 69.00 ft, |          | POOH Reason                                                                                                                                |  |
| Drilling Hours for BHA     | 30.75   | Gamma (Bit to Gamma): 54.00 ft    |          |                                                                                                                                            |  |
| Total Drilled for BHA (ft) | 5057.00 |                                   |          |                                                                                                                                            |  |
|                            |         |                                   |          |                                                                                                                                            |  |
|                            |         |                                   |          | Change Bottom Hole Assembly: WHEN MOTOR REACHED RIG FLOOR EVERYTHING LOOKED GREAT EXCEPT BIT WAS UNDER GAUGE                               |  |

## Directional Items

| Description                                                                                                                                                       | Vendor        | SN#         | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: Reed TKC76, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 3.50, Size (in): 9.88                      | REED          | A269341     | 6 5/8" Reg Pin |                |         | 9.875   |              | 1.25     | 1.25           |
| <b>Mud Motor</b><br>Description: 8" 7/8 5.9 Stg. 1.75° FBH w/ 9 5/8" NBS, Size (in): 8.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.9 | Butch's       | BDT-800-015 | 6 5/8" Reg Box | 6 5/8" Reg Box |         | 8.000   |              | 37.18    | 38.43          |
| <b>Stabilizer</b><br>Description: 9 5/8" Nortrack Stabilizer                                                                                                      | JAO           | JOA97909    | 6 5/8" Reg Box | 6 5/8" Reg Pin | 2.875   | 8.125   |              | 6.01     | 44.44          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                                  | AIM           | 800613      | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.000   |              | 3.00     | 47.44          |
| <b>Drill Collar</b><br>Description: NMDC (Spacer), Material: Non-Magnetic, Type: Slick Drill                                                                      | AIM           | DY800009MJ  | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.21    | 77.65          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                                    | AIM           | DY80013MJ   | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.25    | 107.90         |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                                     | BLACK DIAMOND | BD14829     | EverDrlg54 Box | 6 5/8" Reg Pin | 2.750   | 8.000   |              | 3.17     | 111.07         |
| <b>HWDP</b><br>Description: 5.5" HWDP (13 Stands), Type: Slick                                                                                                    | BLACK DIAMOND |             | EverDrlg54 Box | EverDrlg54 Pin | 2.875   | 5.500   |              | 1213.05  | 1324.12        |
| <b>Crossover Sub</b><br>Description: 4.5 IF (B) x EverDrill 54 (P), Material: Steel                                                                               | BLACK DIAMOND | BD8071      | 4 1/2" IF Box  | EverDrlg54 Pin | 3.125   | 6.750   |              | 3.87     | 1327.99        |

|                                                                                                 |          |         |           |               |       |       |  |      |         |
|-------------------------------------------------------------------------------------------------|----------|---------|-----------|---------------|-------|-------|--|------|---------|
| <b>Crossover Sub</b><br>Description: <i>CET 43 (B) x 4.5 IF (P)</i> ,<br>Material: <i>Steel</i> | Platinum | PPR2786 | CET43 Box | 4 1/2" IF Pin | 2.500 | 6.500 |  | 2.83 | 1330.82 |
|-------------------------------------------------------------------------------------------------|----------|---------|-----------|---------------|-------|-------|--|------|---------|

**MWD Items**

No Items

**Directional Activities**

| Activity Type   | Code | Start Date | Start Time | End Time | End Date | Start (ft) | End (ft) | Comments/Details                                                                                                                                                                                                                                     |
|-----------------|------|------------|------------|----------|----------|------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standby         | 15   | 06-11      | 10:15      | 01:10    | 06-12    |            |          | Standby                                                                                                                                                                                                                                              |
| Pick Up BHA     | 64   | 06-12      | 01:10      | 02:30    | 06-12    |            |          | p/u bha # 2                                                                                                                                                                                                                                          |
| TIH             | 8    | 06-12      | 02:30      | 05:40    | 06-12    |            |          | TIH                                                                                                                                                                                                                                                  |
| Drilling Cement | 17   | 06-12      | 05:40      | 08:05    | 06-12    | 1585.00    | 1585.00  | Drilling Cement and Float Equipment F/ 1504 - T/ 1585 [ GPM = 500, RPM = 28, WOB = 4, DIFF = 120 ]                                                                                                                                                   |
| Rotary Drill    | 1    | 06-12      | 08:05      | 09:25    | 06-12    | 1585.00    | 1709.00  | Pressure On (psi): <i>1800.00</i> , Pressure Off (psi): <i>1150.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>35</i> , Surface Torque (ft lbf): <i>11200.00</i> , Flow Rate (gpm): <i>643.00</i> , Strokes Per Minute: <i>221.00</i> |
| Survey          | 46   | 06-12      | 09:25      | 09:30    | 06-12    | 1709.00    | 1709.00  | Inclination (°): <i>0.570</i> , Azimuth (°): <i>166.040</i> , TVD (ft): <i>1639.75</i> , Dogleg (°/100 ft): <i>0.14</i> , Sensor Depth (ft): <i>1640.00</i> , Bit To Sensor (ft): <i>69.00</i>                                                       |
| Rotary Drill    | 1    | 06-12      | 09:30      | 09:50    | 06-12    | 1709.00    | 1804.00  | Pressure On (psi): <i>2000.00</i> , Pressure Off (psi): <i>1650.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>11200.00</i> , Flow Rate (gpm): <i>747.00</i> , Strokes Per Minute: <i>258.00</i> |
| Survey          | 46   | 06-12      | 09:50      | 09:55    | 06-12    | 1804.00    | 1804.00  | Inclination (°): <i>1.010</i> , Azimuth (°): <i>150.840</i> , TVD (ft): <i>1734.74</i> , Dogleg (°/100 ft): <i>0.51</i> , Sensor Depth (ft): <i>1735.00</i> , Bit To Sensor (ft): <i>69.00</i>                                                       |
| Rotary Drill    | 1    | 06-12      | 09:55      | 10:15    | 06-12    | 1804.00    | 1899.00  | Pressure On (psi): <i>2425.00</i> , Pressure Off (psi): <i>1850.00</i> , Weight On Bit (klbs): <i>43.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>13150.00</i> , Flow Rate (gpm): <i>800.00</i> , Strokes Per Minute: <i>275.00</i> |
| Survey          | 46   | 06-12      | 10:15      | 10:20    | 06-12    | 1899.00    | 1899.00  | Inclination (°): <i>0.970</i> , Azimuth (°): <i>147.580</i> , TVD (ft): <i>1829.73</i> , Dogleg (°/100 ft): <i>0.07</i> , Sensor Depth (ft): <i>1830.00</i> , Bit To Sensor (ft): <i>69.00</i>                                                       |
| Rotary Drill    | 1    | 06-12      | 10:20      | 10:50    | 06-12    | 1899.00    | 2088.00  | Pressure On (psi): <i>2425.00</i> , Pressure Off (psi): <i>1850.00</i> , Weight On Bit (klbs): <i>43.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>13150.00</i> , Flow Rate (gpm): <i>800.00</i> , Strokes Per Minute: <i>275.00</i> |
| Survey          | 46   | 06-12      | 10:50      | 10:55    | 06-12    | 2088.00    | 2088.00  | Inclination (°): <i>0.840</i> , Azimuth (°): <i>146.180</i> , TVD (ft): <i>2018.70</i> , Dogleg (°/100 ft): <i>0.07</i> , Sensor Depth (ft): <i>2019.00</i> , Bit To Sensor (ft): <i>69.00</i>                                                       |
| Rotary Drill    | 1    | 06-12      | 10:55      | 11:10    | 06-12    | 2088.00    | 2183.00  | Pressure On (psi): <i>2425.00</i> , Pressure Off (psi): <i>1850.00</i> , Weight On Bit (klbs): <i>43.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>13150.00</i> , Flow Rate (gpm): <i>800.00</i> , Strokes Per Minute: <i>275.00</i> |
| Survey          | 46   | 06-12      | 11:10      | 11:15    | 06-12    | 2183.00    | 2183.00  | Inclination (°): <i>0.620</i> , Azimuth (°): <i>135.280</i> , TVD (ft): <i>2113.70</i> , Dogleg (°/100 ft): <i>0.27</i> , Sensor Depth (ft): <i>2114.00</i> , Bit To Sensor (ft): <i>69.00</i>                                                       |
| Rotary Drill    | 1    | 06-12      | 11:15      | 11:25    | 06-12    | 2183.00    | 2278.00  | Pressure On (psi): <i>2425.00</i> , Pressure Off (psi): <i>1850.00</i> , Weight On Bit (klbs): <i>43.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>13150.00</i> , Flow Rate (gpm): <i>800.00</i> , Strokes Per Minute: <i>275.00</i> |
| Survey          | 46   | 06-12      | 11:25      | 11:30    | 06-12    | 2278.00    | 2278.00  | Inclination (°): <i>0.530</i> , Azimuth (°): <i>119.990</i> , TVD (ft): <i>2208.69</i> , Dogleg (°/100 ft): <i>0.19</i> , Sensor Depth (ft): <i>2209.00</i> , Bit To Sensor (ft): <i>69.00</i>                                                       |
| Rotary Drill    | 1    | 06-12      | 11:30      | 11:45    | 06-12    | 2278.00    | 2374.00  | Pressure On (psi): <i>2425.00</i> , Pressure Off (psi): <i>1850.00</i> , Weight On Bit (klbs): <i>47.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>14750.00</i> , Flow Rate (gpm): <i>800.00</i> , Strokes Per Minute: <i>275.00</i> |
| Survey          | 46   | 06-12      | 11:45      | 11:50    | 06-12    | 2374.00    | 2374.00  | Inclination (°): <i>0.440</i> , Azimuth (°): <i>97.660</i> , TVD (ft): <i>2304.69</i> , Dogleg (°/100 ft): <i>0.22</i> , Sensor Depth (ft): <i>2305.00</i> , Bit To Sensor (ft): <i>69.00</i>                                                        |
| Rotary Drill    | 1    | 06-12      | 11:50      | 12:05    | 06-12    | 2374.00    | 2470.00  | Pressure On (psi): <i>2425.00</i> , Pressure Off (psi): <i>1850.00</i> , Weight On Bit (klbs): <i>47.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>14750.00</i> , Flow Rate (gpm): <i>800.00</i> , Strokes Per Minute: <i>275.00</i> |
| Survey          | 46   | 06-12      | 12:05      | 12:10    | 06-12    | 2470.00    | 2470.00  | Inclination (°): <i>0.660</i> , Azimuth (°): <i>68.040</i> , TVD (ft): <i>2400.68</i> , Dogleg (°/100 ft): <i>0.37</i> , Sensor Depth (ft): <i>2401.00</i> , Bit To Sensor (ft): <i>69.00</i>                                                        |
| Rotary Drill    | 1    | 06-12      | 12:10      | 12:20    | 06-12    | 2470.00    | 2564.00  | Pressure On (psi): <i>2425.00</i> , Pressure Off (psi): <i>1850.00</i> , Weight On Bit (klbs): <i>47.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>14750.00</i> , Flow Rate (gpm): <i>800.00</i> , Strokes Per Minute: <i>275.00</i> |
| Survey          | 46   | 06-12      | 12:20      | 12:25    | 06-12    | 2564.00    | 2564.00  | Inclination (°): <i>0.920</i> , Azimuth (°): <i>71.650</i> , TVD (ft): <i>2494.68</i> , Dogleg (°/100 ft): <i>0.28</i> , Sensor Depth (ft): <i>2495.00</i> , Bit To Sensor (ft): <i>69.00</i>                                                        |
| Rotary Drill    | 1    | 06-12      | 12:25      | 12:40    | 06-12    | 2564.00    | 2658.00  | Pressure On (psi): <i>2425.00</i> , Pressure Off (psi): <i>1850.00</i> , Weight On Bit (klbs): <i>47.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>14750.00</i> , Flow Rate (gpm): <i>800.00</i> , Strokes Per Minute: <i>275.00</i> |
| Survey          | 46   | 06-12      | 12:40      | 12:45    | 06-12    | 2658.00    | 2658.00  | Inclination (°): <i>0.920</i> , Azimuth (°): <i>68.040</i> , TVD (ft): <i>2588.66</i> , Dogleg (°/100 ft): <i>0.06</i> , Sensor Depth (ft): <i>2589.00</i> , Bit To Sensor (ft): <i>69.00</i>                                                        |
| Rotary Drill    | 1    | 06-12      | 12:45      | 13:00    | 06-12    | 2658.00    | 2752.00  | Pressure On (psi): <i>2550.00</i> , Pressure Off (psi): <i>1850.00</i> , Weight On Bit (klbs): <i>47.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>14750.00</i> , Flow Rate (gpm): <i>800.00</i> , Strokes Per Minute: <i>275.00</i> |
| Survey          | 46   | 06-12      | 13:00      | 13:05    | 06-12    | 2752.00    | 2752.00  | Inclination (°): <i>1.230</i> , Azimuth (°): <i>55.470</i> , TVD (ft): <i>2682.65</i> , Dogleg (°/100 ft): <i>0.41</i> , Sensor Depth (ft): <i>2683.00</i> , Bit To Sensor (ft): <i>69.00</i>                                                        |
| Rotary Drill    | 1    | 06-12      | 13:05      | 13:20    | 06-12    | 2752.00    | 2846.00  | Pressure On (psi): <i>2550.00</i> , Pressure Off (psi): <i>1850.00</i> , Weight On Bit (klbs): <i>47.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>14750.00</i> , Flow Rate (gpm): <i>800.00</i> , Strokes Per Minute: <i>275.00</i> |
| Survey          | 46   | 06-12      | 13:20      | 13:25    | 06-12    | 2846.00    | 2846.00  | Inclination (°): <i>1.360</i> , Azimuth (°): <i>56.970</i> , TVD (ft): <i>2776.62</i> , Dogleg (°/100 ft): <i>0.14</i> , Sensor Depth (ft): <i>2777.00</i> , Bit To Sensor (ft): <i>69.00</i>                                                        |

|                       |    |       |       |       |       |         |         |                                                                                                                                                                                               |
|-----------------------|----|-------|-------|-------|-------|---------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rotary Drill          | 1  | 06-12 | 13:25 | 13:35 | 06-12 | 2846.00 | 2860.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1850.00, Weight On Bit (klbs): 47.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00 |
| Slide Drill           | 2  | 06-12 | 13:35 | 13:45 | 06-12 | 2860.00 | 2878.00 | Pressure On (psi): 2750.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275, Toolface: 210, Toolface Type: magnetic                |
| Rotary Drill          | 1  | 06-12 | 13:45 | 13:55 | 06-12 | 2878.00 | 2942.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1850.00, Weight On Bit (klbs): 47.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00 |
| Survey                | 46 | 06-12 | 13:55 | 14:00 | 06-12 | 2942.00 | 2942.00 | Inclination (°): 1.190, Azimuth (°): 123.060, TVD (ft): 2872.60, Dogleg (°/100 ft): 1.46, Sensor Depth (ft): 2873.00, Bit To Sensor (ft): 69.00                                               |
| Rotary Drill          | 1  | 06-12 | 14:00 | 14:15 | 06-12 | 2942.00 | 3036.00 | Pressure On (psi): 2800.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 50.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00 |
| Survey                | 46 | 06-12 | 14:15 | 14:20 | 06-12 | 3036.00 | 3036.00 | Inclination (°): 1.540, Azimuth (°): 132.990, TVD (ft): 2966.58, Dogleg (°/100 ft): 0.45, Sensor Depth (ft): 2967.00, Bit To Sensor (ft): 69.00                                               |
| Rotary Drill          | 1  | 06-12 | 14:20 | 14:25 | 06-12 | 3036.00 | 3050.00 | Pressure On (psi): 2800.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 50.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00 |
| Slide Drill           | 2  | 06-12 | 14:25 | 14:50 | 06-12 | 3050.00 | 3068.00 | Pressure On (psi): 2750.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275, Toolface: 310, Toolface Type: magnetic                |
| Rotary Drill          | 1  | 06-12 | 14:50 | 15:00 | 06-12 | 3068.00 | 3129.00 | Pressure On (psi): 2800.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 50.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00 |
| Survey                | 46 | 06-12 | 15:00 | 15:05 | 06-12 | 3129.00 | 3129.00 | Inclination (°): 1.580, Azimuth (°): 126.230, TVD (ft): 3059.54, Dogleg (°/100 ft): 0.20, Sensor Depth (ft): 3060.00, Bit To Sensor (ft): 69.00                                               |
| Rotary Drill          | 1  | 06-12 | 15:05 | 15:15 | 06-12 | 3129.00 | 3145.00 | Pressure On (psi): 2800.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 50.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00 |
| Slide Drill           | 2  | 06-12 | 15:15 | 15:35 | 06-12 | 3145.00 | 3165.00 | Pressure On (psi): 2750.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275, Toolface: 310, Toolface Type: magnetic                |
| Rotary Drill          | 1  | 06-12 | 15:35 | 15:45 | 06-12 | 3165.00 | 3221.00 | Pressure On (psi): 2800.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 50.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00 |
| Survey                | 46 | 06-12 | 15:45 | 15:50 | 06-12 | 3221.00 | 3221.00 | Inclination (°): 0.350, Azimuth (°): 95.640, TVD (ft): 3151.53, Dogleg (°/100 ft): 1.40, Sensor Depth (ft): 3152.00, Bit To Sensor (ft): 69.00                                                |
| Rotary Drill          | 1  | 06-12 | 15:50 | 16:05 | 06-12 | 3221.00 | 3314.00 | Pressure On (psi): 2800.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 50.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00 |
| Survey                | 46 | 06-12 | 16:05 | 16:10 | 06-12 | 3314.00 | 3314.00 | Inclination (°): 0.790, Azimuth (°): 1.860, TVD (ft): 3244.52, Dogleg (°/100 ft): 0.95, Sensor Depth (ft): 3245.00, Bit To Sensor (ft): 69.00                                                 |
| Rotary Drill          | 1  | 06-12 | 16:10 | 16:30 | 06-12 | 3314.00 | 3408.00 | Pressure On (psi): 2800.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 50.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00 |
| Survey                | 46 | 06-12 | 16:30 | 16:35 | 06-12 | 3408.00 | 3408.00 | Inclination (°): 0.970, Azimuth (°): 24.360, TVD (ft): 3338.51, Dogleg (°/100 ft): 0.41, Sensor Depth (ft): 3339.00, Bit To Sensor (ft): 69.00                                                |
| Rotary Drill          | 1  | 06-12 | 16:35 | 16:55 | 06-12 | 3408.00 | 3501.00 | Pressure On (psi): 2800.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 50.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00 |
| Survey                | 46 | 06-12 | 16:55 | 17:00 | 06-12 | 3501.00 | 3501.00 | Inclination (°): 1.190, Azimuth (°): 46.690, TVD (ft): 3431.50, Dogleg (°/100 ft): 0.51, Sensor Depth (ft): 3432.00, Bit To Sensor (ft): 69.00                                                |
| Rotary Drill          | 1  | 06-12 | 17:00 | 17:30 | 06-12 | 3501.00 | 3594.00 | Pressure On (psi): 2800.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 50.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00 |
| Survey                | 46 | 06-12 | 17:30 | 17:35 | 06-12 | 3594.00 | 3594.00 | Inclination (°): 1.270, Azimuth (°): 37.110, TVD (ft): 3524.48, Dogleg (°/100 ft): 0.24, Sensor Depth (ft): 3525.00, Bit To Sensor (ft): 69.00                                                |
| Rotary Drill          | 1  | 06-12 | 17:35 | 17:55 | 06-12 | 3594.00 | 3687.00 | Pressure On (psi): 2800.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 50.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00 |
| Rotary Drill          | 1  | 06-12 | 17:55 | 18:30 | 06-12 | 3687.00 | 3782.00 | Pressure On (psi): 2800.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 50.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00 |
| Survey                | 46 | 06-12 | 18:30 | 18:35 | 06-12 | 3782.00 | 3782.00 | Inclination (°): 1.360, Azimuth (°): 359.750, TVD (ft): 3712.43, Dogleg (°/100 ft): 0.45, Sensor Depth (ft): 3713.00, Bit To Sensor (ft): 69.00                                               |
| Rotary Drill          | 1  | 06-12 | 18:35 | 19:05 | 06-12 | 3782.00 | 3878.00 | Pressure On (psi): 2800.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 50.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00 |
| Rig Service - In Hole | 19 | 06-12 | 19:05 | 19:40 | 06-12 |         |         |                                                                                                                                                                                               |
| Survey                | 46 | 06-12 | 19:40 | 19:45 | 06-12 | 3878.00 | 3878.00 | Inclination (°): 1.320, Azimuth (°): 30.340, TVD (ft): 3808.41, Dogleg (°/100 ft): 0.74, Sensor Depth (ft): 3809.00, Bit To Sensor (ft): 69.00                                                |
| Rotary Drill          | 1  | 06-12 | 19:45 | 20:05 | 06-12 | 3878.00 | 3971.00 | Pressure On (psi): 2800.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 50.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00 |
| Survey                | 46 | 06-12 | 20:05 | 20:10 | 06-12 | 3971.00 | 3971.00 | Inclination (°): 1.230, Azimuth (°): 26.030, TVD (ft): 3901.38, Dogleg (°/100 ft): 0.14, Sensor Depth (ft): 3902.00, Bit To Sensor (ft): 69.00                                                |

|              |    |       |       |       |       |         |         |                                                                                                                                                                                               |
|--------------|----|-------|-------|-------|-------|---------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rotary Drill | 1  | 06-12 | 20:10 | 20:35 | 06-12 | 3971.00 | 4062.00 | Pressure On (psi): 2800.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 50.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00 |
| Rotary Drill | 1  | 06-12 | 20:35 | 21:00 | 06-12 | 4062.00 | 4157.00 | Pressure On (psi): 2800.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 50.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00 |
| Survey       | 46 | 06-12 | 21:00 | 21:05 | 06-12 | 4157.00 | 4157.00 | Inclination (°): 1.450, Azimuth (°): 20.410, TVD (ft): 4087.33, Dogleg (°/100 ft): 0.14, Sensor Depth (ft): 4088.00, Bit To Sensor (ft): 69.00                                                |
| Rotary Drill | 1  | 06-12 | 21:05 | 21:20 | 06-12 | 4157.00 | 4187.00 | Pressure On (psi): 2800.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 50.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 275.00 |
| Slide Drill  | 2  | 06-12 | 21:20 | 21:55 | 06-12 | 4187.00 | 4207.00 | Pressure On (psi): 2000.00, Pressure Off (psi): 1750.00, Weight On Bit (klbs): 15.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 231, Toolface: 190, Toolface Type: magnetic                |
| Rotary Drill | 1  | 06-12 | 21:55 | 22:10 | 06-12 | 4207.00 | 4250.00 | Pressure On (psi): 2800.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 50.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 231.00 |
| Rotary Drill | 1  | 06-12 | 22:10 | 22:30 | 06-12 | 4250.00 | 4343.00 | Pressure On (psi): 2800.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 50.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 231.00 |
| Survey       | 46 | 06-12 | 22:30 | 22:35 | 06-12 | 4343.00 | 4343.00 | Inclination (°): 1.630, Azimuth (°): 182.210, TVD (ft): 4273.31, Dogleg (°/100 ft): 1.64, Sensor Depth (ft): 4274.00, Bit To Sensor (ft): 69.00                                               |
| Rotary Drill | 1  | 06-12 | 22:35 | 23:05 | 06-12 | 4343.00 | 4438.00 | Pressure On (psi): 2800.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 50.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 231.00 |
| Survey       | 46 | 06-12 | 23:05 | 23:10 | 06-12 | 4438.00 | 4438.00 | Inclination (°): 1.630, Azimuth (°): 184.850, TVD (ft): 4368.27, Dogleg (°/100 ft): 0.08, Sensor Depth (ft): 4369.00, Bit To Sensor (ft): 69.00                                               |
| Rotary Drill | 1  | 06-12 | 23:10 | 23:35 | 06-12 | 4438.00 | 4532.00 | Pressure On (psi): 2800.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 50.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 231.00 |
| Rotary Drill | 1  | 06-12 | 23:35 | 00:00 | 06-13 | 4532.00 | 4626.00 | Pressure On (psi): 2800.00, Pressure Off (psi): 2100.00, Weight On Bit (klbs): 50.00, Surface RPM: 60, Surface Torque (ft lbf): 14750.00, Flow Rate (gpm): 700.00, Strokes Per Minute: 231.00 |

**MWD Activities**

No Activities



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

Sunday, Jun 13 00:00 - 23:59 (Day 5 of 24)

Billing: \$5,800.00 (\$150,591.57 total)

| Drilling Summary        |         |                     |       | Drilling Parameters       |                   |
|-------------------------|---------|---------------------|-------|---------------------------|-------------------|
| Start Depth (ft)        | 4626.00 | Downhole Hours      | 24.00 | Rotating WOB (klbs)       | 15.00 - 35.00     |
| Bit Depth (ft)          | 6642.00 | Drilling Hours      | 17.58 | Sliding WOB (klbs)        | 15.00 - 20.00     |
| Bottom Hole Depth (ft)  | 6642.00 | Hours Circulating   | 0.92  | Rotating SPM              | 231.00 - 276.00   |
| Total Distance (ft)     | 2016.00 | Hours Sliding       | 4.92  | Sliding SPM               | 249.00 - 276.00   |
| Distance Rotated (ft)   | 1895.00 | Hours Rotating      | 12.67 | Motor RPM                 | 50.00 - 70.00     |
| Distance Slid (ft)      | 121.00  |                     |       | Surface RPM               | 60.00 - 70.00     |
| Inclination In          | 1.80    |                     |       | Flow Rate (gpm)           | 700.00 - 800.00   |
| Inclination Out         | 5.01    |                     |       | On Bottom Pressure (psi)  | 2400.00 - 3200.00 |
| Azimuth In              | 176.24  | % Hours Rotating    | 72%   | Off Bottom Pressure (psi) | 1800.00 - 2700.00 |
| Azimuth Out             | 103.90  | % Hours Sliding     | 28%   |                           |                   |
| AVG Total ROP (ft/h)    | 117.22  | % Distance Sliding  | 6%    |                           |                   |
| AVG Rotating ROP (ft/h) | 152.03  | % Distance Rotating | 94%   |                           |                   |
| AVG Sliding ROP (ft/h)  | 24.61   |                     |       |                           |                   |

## Personnel

| Name                | Position            |
|---------------------|---------------------|
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

## BHA #2 - 9 7/8 Intermediate

Date In: Jun 12, 2021, 2:30 Date Out: Jun 14, 2021, 0:15

| Bit Details                |         | Motor Details                     |          | Directional Comments                                                                                                                       |
|----------------------------|---------|-----------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------|
| OD (in)                    | 9.875   | Size (in)                         | 8.0      | 8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 9 5/8" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 0 Runs |
| Vendor                     | REED    | Lobe/Stage                        | 7/8, 5.9 |                                                                                                                                            |
| S/N                        | A269341 | Bend Angle                        | 1.75     |                                                                                                                                            |
| Nozzles                    | 7 x 14  | Speed (rev/gal)                   | 0.15     | MWD Comments                                                                                                                               |
| Total Flow Area (in²)      | 1.052   | Wear Pad OD (in)                  | 8.313    | POOH Reason<br><br>Change Bottom Hole Assembly: WHEN MOTOR REACHED RIG FLOOR EVERYTHING LOOKED GREAT EXCEPT BIT WAS UNDER GAUGE            |
| Drilling Hours for Day     | 17.58   | Bit Distances                     |          |                                                                                                                                            |
| Total Drilled for Day (ft) | 2016.00 | Survey (Bit to Sensor): 69.00 ft, |          |                                                                                                                                            |
| Drilling Hours for BHA     | 30.75   | Gamma (Bit to Gamma): 54.00 ft    |          |                                                                                                                                            |
| Total Drilled for BHA (ft) | 5057.00 |                                   |          |                                                                                                                                            |
|                            |         |                                   |          |                                                                                                                                            |

## Directional Items

| Description                                                                                                                                                       | Vendor        | SN#         | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: Reed TKC76, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 3.50, Size (in): 9.88                      | REED          | A269341     | 6 5/8" Reg Pin |                |         | 9.875   |              | 1.25     | 1.25           |
| <b>Mud Motor</b><br>Description: 8" 7/8 5.9 Stg. 1.75° FBH w/ 9 5/8" NBS, Size (in): 8.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.9 | Butch's       | BDT-800-015 | 6 5/8" Reg Box | 6 5/8" Reg Box |         | 8.000   |              | 37.18    | 38.43          |
| <b>Stabilizer</b><br>Description: 9 5/8" Nortrack Stabilizer                                                                                                      | JAO           | JOA97909    | 6 5/8" Reg Box | 6 5/8" Reg Pin | 2.875   | 8.125   |              | 6.01     | 44.44          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                                  | AIM           | 800613      | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.000   |              | 3.00     | 47.44          |
| <b>Drill Collar</b><br>Description: NMDC (Spacer), Material: Non-Magnetic, Type: Slick Drill                                                                      | AIM           | DY800009MJ  | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.21    | 77.65          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                                    | AIM           | DY80013MJ   | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.25    | 107.90         |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                                     | BLACK DIAMOND | BD14829     | EverDrlg54 Box | 6 5/8" Reg Pin | 2.750   | 8.000   |              | 3.17     | 111.07         |
| <b>HWDP</b><br>Description: 5.5" HWDP (13 Stands), Type: Slick                                                                                                    | BLACK DIAMOND |             | EverDrlg54 Box | EverDrlg54 Pin | 2.875   | 5.500   |              | 1213.05  | 1324.12        |
| <b>Crossover Sub</b><br>Description: 4.5 IF (B) x EverDrill 54 (P), Material: Steel                                                                               | BLACK DIAMOND | BD8071      | 4 1/2" IF Box  | EverDrlg54 Pin | 3.125   | 6.750   |              | 3.87     | 1327.99        |

|                                                                                                 |          |         |           |               |       |       |  |      |         |
|-------------------------------------------------------------------------------------------------|----------|---------|-----------|---------------|-------|-------|--|------|---------|
| <b>Crossover Sub</b><br>Description: <i>CET 43 (B) x 4.5 IF (P)</i> ,<br>Material: <i>Steel</i> | Platinum | PPR2786 | CET43 Box | 4 1/2" IF Pin | 2.500 | 6.500 |  | 2.83 | 1330.82 |
|-------------------------------------------------------------------------------------------------|----------|---------|-----------|---------------|-------|-------|--|------|---------|

**MWD Items**

No Items

**Directional Activities**

| Activity Type | Code | Start Date | Start Time | End Time | End Date | Start (ft) | End (ft) | Comments/Details                                                                                                                                                                                                                                     |
|---------------|------|------------|------------|----------|----------|------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rotary Drill  | 1    | 06-12      | 23:35      | 00:00    | 06-13    | 4532.00    | 4626.00  | Pressure On (psi): <i>2800.00</i> , Pressure Off (psi): <i>2100.00</i> , Weight On Bit (klbs): <i>50.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>14750.00</i> , Flow Rate (gpm): <i>700.00</i> , Strokes Per Minute: <i>231.00</i> |
| Survey        | 46   | 06-13      | 00:00      | 00:05    | 06-13    | 4626.00    | 4626.00  | Inclination (°): <i>1.800</i> , Azimuth (°): <i>176.240</i> , TVD (ft): <i>4556.19</i> , Dogleg (°/100 ft): <i>0.16</i> , Sensor Depth (ft): <i>4557.00</i> , Bit To Sensor (ft): <i>69.00</i>                                                       |
| Rotary Drill  | 1    | 06-13      | 00:05      | 00:45    | 06-13    | 4626.00    | 4721.00  |                                                                                                                                                                                                                                                      |
| Survey        | 46   | 06-13      | 00:45      | 00:50    | 06-13    | 4721.00    | 4721.00  | Inclination (°): <i>1.980</i> , Azimuth (°): <i>175.530</i> , TVD (ft): <i>4651.13</i> , Dogleg (°/100 ft): <i>0.19</i> , Sensor Depth (ft): <i>4652.00</i> , Bit To Sensor (ft): <i>69.00</i>                                                       |
| Rotary Drill  | 1    | 06-13      | 00:50      | 01:40    | 06-13    | 4721.00    | 4815.00  | Pressure On (psi): <i>2400.00</i> , Pressure Off (psi): <i>1800.00</i> , Weight On Bit (klbs): <i>22.00</i> , Surface RPM: <i>70</i> , Surface Torque (ft lbf): <i>11000.00</i> , Flow Rate (gpm): <i>700.00</i> , Strokes Per Minute: <i>231.00</i> |
| Survey        | 46   | 06-13      | 01:40      | 01:45    | 06-13    | 4815.00    | 4815.00  | Inclination (°): <i>1.850</i> , Azimuth (°): <i>182.920</i> , TVD (ft): <i>4745.08</i> , Dogleg (°/100 ft): <i>0.30</i> , Sensor Depth (ft): <i>4746.00</i> , Bit To Sensor (ft): <i>69.00</i>                                                       |
| Rotary Drill  | 1    | 06-13      | 01:45      | 02:30    | 06-13    | 4815.00    | 4908.00  | Pressure On (psi): <i>2400.00</i> , Pressure Off (psi): <i>1800.00</i> , Weight On Bit (klbs): <i>22.00</i> , Surface RPM: <i>70</i> , Surface Torque (ft lbf): <i>11000.00</i> , Flow Rate (gpm): <i>700.00</i> , Strokes Per Minute: <i>231.00</i> |
| Survey        | 46   | 06-13      | 02:30      | 02:35    | 06-13    | 4908.00    | 4908.00  | Inclination (°): <i>1.930</i> , Azimuth (°): <i>180.370</i> , TVD (ft): <i>4838.03</i> , Dogleg (°/100 ft): <i>0.12</i> , Sensor Depth (ft): <i>4839.00</i> , Bit To Sensor (ft): <i>69.00</i>                                                       |
| Rotary Drill  | 1    | 06-13      | 02:35      | 03:10    | 06-13    | 4908.00    | 5003.00  | Pressure On (psi): <i>2400.00</i> , Pressure Off (psi): <i>1800.00</i> , Weight On Bit (klbs): <i>22.00</i> , Surface RPM: <i>70</i> , Surface Torque (ft lbf): <i>11000.00</i> , Flow Rate (gpm): <i>700.00</i> , Strokes Per Minute: <i>231.00</i> |
| Survey        | 46   | 06-13      | 03:10      | 03:15    | 06-13    | 5003.00    | 5003.00  | Inclination (°): <i>1.630</i> , Azimuth (°): <i>178.790</i> , TVD (ft): <i>4932.98</i> , Dogleg (°/100 ft): <i>0.32</i> , Sensor Depth (ft): <i>4934.00</i> , Bit To Sensor (ft): <i>69.00</i>                                                       |
| Rotary Drill  | 1    | 06-13      | 03:15      | 03:50    | 06-13    | 5003.00    | 5098.00  | Pressure On (psi): <i>2400.00</i> , Pressure Off (psi): <i>1800.00</i> , Weight On Bit (klbs): <i>22.00</i> , Surface RPM: <i>70</i> , Surface Torque (ft lbf): <i>11000.00</i> , Flow Rate (gpm): <i>700.00</i> , Strokes Per Minute: <i>231.00</i> |
| Survey        | 46   | 06-13      | 03:50      | 03:55    | 06-13    | 5098.00    | 5098.00  | Inclination (°): <i>1.760</i> , Azimuth (°): <i>171.230</i> , TVD (ft): <i>5027.94</i> , Dogleg (°/100 ft): <i>0.27</i> , Sensor Depth (ft): <i>5029.00</i> , Bit To Sensor (ft): <i>69.00</i>                                                       |
| Rotary Drill  | 1    | 06-13      | 03:55      | 04:25    | 06-13    | 5098.00    | 5192.00  | Pressure On (psi): <i>2400.00</i> , Pressure Off (psi): <i>1800.00</i> , Weight On Bit (klbs): <i>22.00</i> , Surface RPM: <i>70</i> , Surface Torque (ft lbf): <i>11000.00</i> , Flow Rate (gpm): <i>700.00</i> , Strokes Per Minute: <i>231.00</i> |
| Survey        | 46   | 06-13      | 04:25      | 04:30    | 06-13    | 5192.00    | 5192.00  | Inclination (°): <i>1.710</i> , Azimuth (°): <i>171.230</i> , TVD (ft): <i>5121.90</i> , Dogleg (°/100 ft): <i>0.05</i> , Sensor Depth (ft): <i>5123.00</i> , Bit To Sensor (ft): <i>69.00</i>                                                       |
| Rotary Drill  | 1    | 06-13      | 04:30      | 04:50    | 06-13    | 5192.00    | 5287.00  | Pressure On (psi): <i>3200.00</i> , Pressure Off (psi): <i>2700.00</i> , Weight On Bit (klbs): <i>15.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>13000.00</i> , Flow Rate (gpm): <i>800.00</i> , Strokes Per Minute: <i>276.00</i> |
| Survey        | 46   | 06-13      | 04:50      | 04:55    | 06-13    | 5287.00    | 5287.00  | Inclination (°): <i>1.800</i> , Azimuth (°): <i>180.980</i> , TVD (ft): <i>5216.86</i> , Dogleg (°/100 ft): <i>0.33</i> , Sensor Depth (ft): <i>5218.00</i> , Bit To Sensor (ft): <i>69.00</i>                                                       |
| Rotary Drill  | 1    | 06-13      | 04:55      | 05:00    | 06-13    | 5287.00    | 5305.00  | Pressure On (psi): <i>3200.00</i> , Pressure Off (psi): <i>2700.00</i> , Weight On Bit (klbs): <i>15.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>13000.00</i> , Flow Rate (gpm): <i>800.00</i> , Strokes Per Minute: <i>276.00</i> |
| Slide Drill   | 2    | 06-13      | 05:00      | 05:20    | 06-13    | 5305.00    | 5320.00  | Pressure On (psi): <i>2900.00</i> , Pressure Off (psi): <i>2700.00</i> , Weight On Bit (klbs): <i>15.00</i> , Flow Rate (gpm): <i>800.00</i> , Strokes Per Minute: <i>276</i> , Toolface: <i>90</i> , Toolface Type: <i>magnetic</i>                 |
| Rotary Drill  | 1    | 06-13      | 05:20      | 05:40    | 06-13    | 5320.00    | 5381.00  | Pressure On (psi): <i>3200.00</i> , Pressure Off (psi): <i>2700.00</i> , Weight On Bit (klbs): <i>15.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>13000.00</i> , Flow Rate (gpm): <i>800.00</i> , Strokes Per Minute: <i>276.00</i> |
| Survey        | 46   | 06-13      | 05:40      | 05:45    | 06-13    | 5381.00    | 5381.00  | Inclination (°): <i>1.890</i> , Azimuth (°): <i>140.380</i> , TVD (ft): <i>5310.81</i> , Dogleg (°/100 ft): <i>1.36</i> , Sensor Depth (ft): <i>5312.00</i> , Bit To Sensor (ft): <i>69.00</i>                                                       |
| Rotary Drill  | 1    | 06-13      | 05:45      | 06:00    | 06-13    | 5381.00    | 5476.00  | Pressure On (psi): <i>3200.00</i> , Pressure Off (psi): <i>2700.00</i> , Weight On Bit (klbs): <i>15.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>13000.00</i> , Flow Rate (gpm): <i>800.00</i> , Strokes Per Minute: <i>276.00</i> |
| Survey        | 46   | 06-13      | 06:00      | 06:05    | 06-13    | 5476.00    | 5476.00  | Inclination (°): <i>2.240</i> , Azimuth (°): <i>127.810</i> , TVD (ft): <i>5405.75</i> , Dogleg (°/100 ft): <i>0.60</i> , Sensor Depth (ft): <i>5407.00</i> , Bit To Sensor (ft): <i>69.00</i>                                                       |
| Rotary Drill  | 1    | 06-13      | 06:05      | 06:35    | 06-13    | 5476.00    | 5569.00  | Pressure On (psi): <i>3200.00</i> , Pressure Off (psi): <i>2700.00</i> , Weight On Bit (klbs): <i>15.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>13000.00</i> , Flow Rate (gpm): <i>800.00</i> , Strokes Per Minute: <i>276.00</i> |

|              |    |       |       |       |       |         |         |                                                                                                                                                                                               |
|--------------|----|-------|-------|-------|-------|---------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Survey       | 46 | 06-13 | 06:35 | 06:40 | 06-13 | 5569.00 | 5569.00 | Inclination (°): 2.020, Azimuth (°): 123.850, TVD (ft): 5498.69, Dogleg (%/100 ft): 0.28, Sensor Depth (ft): 5500.00, Bit To Sensor (ft): 69.00                                               |
| Rotary Drill | 1  | 06-13 | 06:40 | 07:00 | 06-13 | 5569.00 | 5663.00 | Pressure On (psi): 3200.00, Pressure Off (psi): 2700.00, Weight On Bit (klbs): 15.00, Surface RPM: 60, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 276.00 |
| Survey       | 46 | 06-13 | 07:00 | 07:05 | 06-13 | 5663.00 | 5663.00 | Inclination (°): 1.540, Azimuth (°): 117.440, TVD (ft): 5592.64, Dogleg (%/100 ft): 0.55, Sensor Depth (ft): 5594.00, Bit To Sensor (ft): 69.00                                               |
| Rotary Drill | 1  | 06-13 | 07:05 | 07:15 | 06-13 | 5663.00 | 5675.00 | Pressure On (psi): 3200.00, Pressure Off (psi): 2700.00, Weight On Bit (klbs): 15.00, Surface RPM: 60, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 276.00 |
| Slide Drill  | 2  | 06-13 | 07:15 | 07:40 | 06-13 | 5675.00 | 5689.00 | Pressure On (psi): 2900.00, Pressure Off (psi): 2700.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 276, Toolface: 110, Toolface Type: magnetic                |
| Rotary Drill | 1  | 06-13 | 07:40 | 08:05 | 06-13 | 5689.00 | 5758.00 | Pressure On (psi): 3200.00, Pressure Off (psi): 2700.00, Weight On Bit (klbs): 15.00, Surface RPM: 60, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 800.00, Strokes Per Minute: 276.00 |
| Survey       | 46 | 06-13 | 08:05 | 08:10 | 06-13 | 5758.00 | 5758.00 | Inclination (°): 1.670, Azimuth (°): 95.290, TVD (ft): 5687.60, Dogleg (%/100 ft): 0.66, Sensor Depth (ft): 5689.00, Bit To Sensor (ft): 69.00                                                |
| Rotary Drill | 1  | 06-13 | 08:10 | 08:20 | 06-13 | 5758.00 | 5765.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 15.00, Surface RPM: 60, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 723.00, Strokes Per Minute: 249.00 |
| Slide Drill  | 2  | 06-13 | 08:20 | 09:25 | 06-13 | 5765.00 | 5789.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 723.00, Strokes Per Minute: 249, Toolface: 110, Toolface Type: magnetic                |
| Rotary Drill | 1  | 06-13 | 09:25 | 09:45 | 06-13 | 5789.00 | 5853.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 723.00, Strokes Per Minute: 249.00 |
| Survey       | 46 | 06-13 | 09:45 | 09:50 | 06-13 | 5853.00 | 5853.00 | Inclination (°): 2.680, Azimuth (°): 90.280, TVD (ft): 5782.53, Dogleg (%/100 ft): 1.08, Sensor Depth (ft): 5784.00, Bit To Sensor (ft): 69.00                                                |
| Rotary Drill | 1  | 06-13 | 09:50 | 10:05 | 06-13 | 5853.00 | 5865.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 723.00, Strokes Per Minute: 249.00 |
| Slide Drill  | 2  | 06-13 | 10:05 | 11:00 | 06-13 | 5865.00 | 5886.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 723.00, Strokes Per Minute: 249, Toolface: 110, Toolface Type: magnetic                |
| Rotary Drill | 1  | 06-13 | 11:00 | 11:25 | 06-13 | 5886.00 | 5947.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 723.00, Strokes Per Minute: 249.00 |
| Survey       | 46 | 06-13 | 11:25 | 11:30 | 06-13 | 5947.00 | 5947.00 | Inclination (°): 3.470, Azimuth (°): 93.090, TVD (ft): 5876.40, Dogleg (%/100 ft): 0.86, Sensor Depth (ft): 5878.00, Bit To Sensor (ft): 69.00                                                |
| Rotary Drill | 1  | 06-13 | 11:30 | 11:40 | 06-13 | 5947.00 | 5960.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 723.00, Strokes Per Minute: 249.00 |
| Slide Drill  | 2  | 06-13 | 11:40 | 12:30 | 06-13 | 5960.00 | 5978.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 723.00, Strokes Per Minute: 249, Toolface: 130, Toolface Type: magnetic                |
| Rotary Drill | 1  | 06-13 | 12:30 | 12:55 | 06-13 | 5978.00 | 6042.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 723.00, Strokes Per Minute: 249.00 |
| Survey       | 46 | 06-13 | 12:55 | 13:00 | 06-13 | 6042.00 | 6042.00 | Inclination (°): 5.050, Azimuth (°): 92.740, TVD (ft): 5971.13, Dogleg (%/100 ft): 1.66, Sensor Depth (ft): 5973.00, Bit To Sensor (ft): 69.00                                                |
| Rotary Drill | 1  | 06-13 | 13:00 | 13:35 | 06-13 | 6042.00 | 6137.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 723.00, Strokes Per Minute: 249.00 |
| Survey       | 46 | 06-13 | 13:35 | 13:40 | 06-13 | 6137.00 | 6137.00 | Inclination (°): 5.410, Azimuth (°): 95.290, TVD (ft): 6065.74, Dogleg (%/100 ft): 0.45, Sensor Depth (ft): 6068.00, Bit To Sensor (ft): 69.00                                                |
| Rotary Drill | 1  | 06-13 | 13:40 | 13:50 | 06-13 | 6137.00 | 6150.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 723.00, Strokes Per Minute: 249.00 |
| Slide Drill  | 2  | 06-13 | 13:50 | 14:30 | 06-13 | 6150.00 | 6162.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 723.00, Strokes Per Minute: 249, Toolface: 210, Toolface Type: magnetic                |
| Rotary Drill | 1  | 06-13 | 14:30 | 14:55 | 06-13 | 6162.00 | 6231.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 723.00, Strokes Per Minute: 249.00 |
| Survey       | 46 | 06-13 | 14:55 | 15:00 | 06-13 | 6231.00 | 6231.00 | Inclination (°): 5.270, Azimuth (°): 97.050, TVD (ft): 6159.33, Dogleg (%/100 ft): 0.23, Sensor Depth (ft): 6162.00, Bit To Sensor (ft): 69.00                                                |

|              |    |       |       |       |       |         |         |                                                                                                                                                                                               |
|--------------|----|-------|-------|-------|-------|---------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rotary Drill | 1  | 06-13 | 15:00 | 15:05 | 06-13 | 6231.00 | 6245.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 723.00, Strokes Per Minute: 249.00 |
| Slide Drill  | 2  | 06-13 | 15:05 | 15:45 | 06-13 | 6245.00 | 6262.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 723.00, Strokes Per Minute: 249, Toolface: 210, Toolface Type: magnetic                |
| Rotary Drill | 1  | 06-13 | 15:45 | 16:10 | 06-13 | 6262.00 | 6326.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 723.00, Strokes Per Minute: 249.00 |
| Survey       | 46 | 06-13 | 16:10 | 16:15 | 06-13 | 6326.00 | 6326.00 | Inclination (°): 5.490, Azimuth (°): 105.220, TVD (ft): 6253.91, Dogleg (%/100 ft): 0.84, Sensor Depth (ft): 6257.00, Bit To Sensor (ft): 69.00                                               |
| Rotary Drill | 1  | 06-13 | 16:15 | 16:45 | 06-13 | 6326.00 | 6421.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 723.00, Strokes Per Minute: 249.00 |
| Survey       | 46 | 06-13 | 16:45 | 16:50 | 06-13 | 6421.00 | 6421.00 | Inclination (°): 5.410, Azimuth (°): 105.660, TVD (ft): 6348.48, Dogleg (%/100 ft): 0.10, Sensor Depth (ft): 6352.00, Bit To Sensor (ft): 69.00                                               |
| Rotary Drill | 1  | 06-13 | 16:50 | 17:40 | 06-13 | 6421.00 | 6515.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 723.00, Strokes Per Minute: 249.00 |
| Survey       | 46 | 06-13 | 17:40 | 17:45 | 06-13 | 6515.00 | 6515.00 | Inclination (°): 5.320, Azimuth (°): 104.430, TVD (ft): 6442.07, Dogleg (%/100 ft): 0.16, Sensor Depth (ft): 6446.00, Bit To Sensor (ft): 69.00                                               |
| Rotary Drill | 1  | 06-13 | 17:45 | 18:35 | 06-13 | 6515.00 | 6610.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 723.00, Strokes Per Minute: 249.00 |
| Survey       | 46 | 06-13 | 18:35 | 18:40 | 06-13 | 6610.00 | 6610.00 | Inclination (°): 5.010, Azimuth (°): 103.900, TVD (ft): 6536.68, Dogleg (%/100 ft): 0.33, Sensor Depth (ft): 6541.00, Bit To Sensor (ft): 69.00                                               |
| Rotary Drill | 1  | 06-13 | 18:40 | 19:25 | 06-13 | 6610.00 | 6642.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 13000.00, Flow Rate (gpm): 723.00, Strokes Per Minute: 249.00 |
| Circulating  | 3  | 06-13 | 19:25 | 20:20 | 06-13 |         |         | CIR BOTTOMS UP                                                                                                                                                                                |
| Pooh         | 7  | 06-13 | 20:20 | 23:00 | 06-13 |         |         | POOH                                                                                                                                                                                          |
| Lay Down BHA | 65 | 06-13 | 23:00 | 00:15 | 06-14 |         |         | L/D MOTOR AND STAB                                                                                                                                                                            |

**MWD Activities**

No Activities



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

Monday, Jun 14 00:00 - 23:59 (Day 6 of 24)

Billing: \$9,700.00 (\$150,591.57 total)

| Drilling Summary               |      |                            |       | Drilling Parameters              |               |
|--------------------------------|------|----------------------------|-------|----------------------------------|---------------|
| <b>Start Depth (ft)</b>        |      | <b>Downhole Hours</b>      | 23.25 | <b>Rotating WOB (klbs)</b>       |               |
| <b>Bit Depth (ft)</b>          |      | <b>Drilling Hours</b>      | 0.00  | <b>Sliding WOB (klbs)</b>        |               |
| <b>Bottom Hole Depth (ft)</b>  |      | <b>Hours Circulating</b>   | 10.00 | <b>Rotating SPM</b>              |               |
| <b>Total Distance (ft)</b>     | 0.00 | <b>Hours Sliding</b>       | 0.00  | <b>Sliding SPM</b>               |               |
| <b>Distance Rotated (ft)</b>   | 0.00 | <b>Hours Rotating</b>      | 0.00  | <b>Motor RPM</b>                 | 50.00 - 70.00 |
| <b>Distance Slid (ft)</b>      | 0.00 |                            |       | <b>Surface RPM</b>               |               |
| <b>Inclination In</b>          |      |                            |       | <b>Flow Rate (gpm)</b>           |               |
| <b>Inclination Out</b>         |      |                            |       | <b>On Bottom Pressure (psi)</b>  |               |
| <b>Azimuth In</b>              |      | <b>% Hours Rotating</b>    |       | <b>Off Bottom Pressure (psi)</b> |               |
| <b>Azimuth Out</b>             |      | <b>% Hours Sliding</b>     |       |                                  |               |
| <b>AVG Total ROP (ft/h)</b>    | 0.00 | <b>% Distance Sliding</b>  |       |                                  |               |
| <b>AVG Rotating ROP (ft/h)</b> | 0.00 | <b>% Distance Rotating</b> |       |                                  |               |
| <b>AVG Sliding ROP (ft/h)</b>  | 0.00 |                            |       |                                  |               |

## Personnel

| Name                | Position            |
|---------------------|---------------------|
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

## BHA #2 - 9 7/8 Intermediate

Date In: Jun 12, 2021, 2:30 Date Out: Jun 14, 2021, 0:15

| Bit Details                       |         | Motor Details                            |          | Directional Comments                                                                                                                       |
|-----------------------------------|---------|------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OD (in)</b>                    | 9.875   | <b>Size (in)</b>                         | 8.0      | 8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 9 5/8" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 0 Runs |
| <b>Vendor</b>                     | REED    | <b>Lobe/Stage</b>                        | 7/8, 5.9 |                                                                                                                                            |
| <b>S/N</b>                        | A269341 | <b>Bend Angle</b>                        | 1.75     |                                                                                                                                            |
| <b>Nozzles</b>                    | 7 x 14  | <b>Speed (rev/gal)</b>                   | 0.15     | <b>MWD Comments</b>                                                                                                                        |
| <b>Total Flow Area (in²)</b>      | 1.052   | <b>Wear Pad OD (in)</b>                  | 8.313    |                                                                                                                                            |
| <b>Drilling Hours for Day</b>     | 0.00    | <b>Bit Distances</b>                     |          |                                                                                                                                            |
| <b>Total Drilled for Day (ft)</b> |         | <b>Survey (Bit to Sensor):</b> 69.00 ft, |          | <b>POOH Reason</b>                                                                                                                         |
| <b>Drilling Hours for BHA</b>     | 30.75   | <b>Gamma (Bit to Gamma):</b> 54.00 ft    |          |                                                                                                                                            |
| <b>Total Drilled for BHA (ft)</b> | 5057.00 |                                          |          |                                                                                                                                            |
|                                   |         |                                          |          | <b>Change Bottom Hole Assembly:</b> WHEN MOTOR REACHED RIG FLOOR EVERYTHING LOOKED GREAT EXCEPT BIT WAS UNDER GAUGE                        |

## Directional Items

| Description                                                                                                                                                       | Vendor        | SN#         | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: Reed TKC76, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 3.50, Size (in): 9.88                      | REED          | A269341     | 6 5/8" Reg Pin |                |         | 9.875   |              | 1.25     | 1.25           |
| <b>Mud Motor</b><br>Description: 8" 7/8 5.9 Stg. 1.75° FBH w/ 9 5/8" NBS, Size (in): 8.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.9 | Butch's       | BDT-800-015 | 6 5/8" Reg Box | 6 5/8" Reg Box |         | 8.000   |              | 37.18    | 38.43          |
| <b>Stabilizer</b><br>Description: 9 5/8" Nortrack Stabilizer                                                                                                      | JAO           | JOA97909    | 6 5/8" Reg Box | 6 5/8" Reg Pin | 2.875   | 8.125   |              | 6.01     | 44.44          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                                  | AIM           | 800613      | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.000   |              | 3.00     | 47.44          |
| <b>Drill Collar</b><br>Description: NMDC (Spacer), Material: Non-Magnetic, Type: Slick Drill                                                                      | AIM           | DY800009MJ  | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.21    | 77.65          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                                    | AIM           | DY80013MJ   | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.25    | 107.90         |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                                     | BLACK DIAMOND | BD14829     | EverDrlg54 Box | 6 5/8" Reg Pin | 2.750   | 8.000   |              | 3.17     | 111.07         |
| <b>HWDP</b><br>Description: 5.5" HWDP (13 Stands), Type: Slick                                                                                                    | BLACK DIAMOND |             | EverDrlg54 Box | EverDrlg54 Pin | 2.875   | 5.500   |              | 1213.05  | 1324.12        |
| <b>Crossover Sub</b><br>Description: 4.5 IF (B) x EverDrill 54 (P), Material: Steel                                                                               | BLACK DIAMOND | BD8071      | 4 1/2" IF Box  | EverDrlg54 Pin | 3.125   | 6.750   |              | 3.87     | 1327.99        |

|                                                                                                 |          |         |           |               |       |       |  |      |         |
|-------------------------------------------------------------------------------------------------|----------|---------|-----------|---------------|-------|-------|--|------|---------|
| <b>Crossover Sub</b><br>Description: <i>CET 43 (B) x 4.5 IF (P)</i> ,<br>Material: <i>Steel</i> | Platinum | PPR2786 | CET43 Box | 4 1/2" IF Pin | 2.500 | 6.500 |  | 2.83 | 1330.82 |
|-------------------------------------------------------------------------------------------------|----------|---------|-----------|---------------|-------|-------|--|------|---------|

| MWD Items                                                                                     |          |                                   |                                                          |                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------|----------|-----------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No Items                                                                                      |          |                                   |                                                          |                                                                                                                                                                        |
| BHA #3 - 9 7/8 Intermediate                                                                   |          |                                   | Date In: Jun 14, 2021, 1:00 Date Out: Jun 17, 2021, 1:30 |                                                                                                                                                                        |
| Bit Details                                                                                   |          | Motor Details                     |                                                          | Directional Comments<br><br>8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 9 5/8" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 0 Runs |
| OD (in)                                                                                       | 9.880    | Size (in)                         | 8.0                                                      |                                                                                                                                                                        |
| Vendor                                                                                        | Ultrerra | Lobe/Stage                        | 7/8, 5.9                                                 |                                                                                                                                                                        |
| S/N                                                                                           | 56248    | Bend Angle                        | 1.75                                                     |                                                                                                                                                                        |
| Nozzles                                                                                       | 6x15's   | Speed (rev/gal)                   | 0.15                                                     |                                                                                                                                                                        |
| Total Flow Area (in²)                                                                         | 1.035    | Wear Pad OD (in)                  | 8.250                                                    |                                                                                                                                                                        |
| Drilling Hours for Day                                                                        | 0.00     | Bit Distances                     |                                                          |                                                                                                                                                                        |
| Total Drilled for Day (ft)                                                                    |          | Survey: 68.00 ft, Gamma: 53.00 ft |                                                          |                                                                                                                                                                        |
| Drilling Hours for BHA                                                                        | 39.83    |                                   |                                                          |                                                                                                                                                                        |
| Total Drilled for BHA (ft)                                                                    | 3377.00  |                                   |                                                          |                                                                                                                                                                        |
|                                                                                               |          |                                   |                                                          |                                                                                                                                                                        |
| MWD Comments                                                                                  |          |                                   |                                                          |                                                                                                                                                                        |
| POOH Reason                                                                                   |          |                                   |                                                          |                                                                                                                                                                        |
| Penetration Rate: WHEN MOTOR REACHED RIG FLOOR BEARINGS HAD SIGNIFICANT SLACK WHEN COMPRESSED |          |                                   |                                                          |                                                                                                                                                                        |

| Directional Items                                                                                                                                                                                                |               |             |                |                |         |         |              |          |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| Description                                                                                                                                                                                                      | Vendor        | SN#         | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
| <b>Bit (Fixed Cutter)</b><br>Description: <i>9 7/8 ULTERRA XP616</i> , Type: <i>PDC (Polycrystalline Diamond Compacts)</i> , Gauge Length (in): <i>3.50</i> , Size (in): <i>9.88</i>                             | Ultrerra      | 56248       | 6 5/8" Reg Pin |                |         | 9.880   |              | 1.50     | 1.50           |
| <b>Mud Motor</b><br>Description: <i>8" 7/8 5.9 Stg. 1.75° FBH w/ 9 5/8" NBS</i> , Size (in): <i>8.00</i> , Bend Angle (°): <i>1.75</i> , Rotor Lobe: <i>7</i> , Stator Lobe: <i>8</i> , Stator Stage: <i>5.9</i> | Butch's       | BDT-800-006 | 6 5/8" Reg Box | 6 5/8" Reg Box |         | 8.000   |              | 37.18    | 38.68          |
| <b>Stabilizer</b><br>Description: <i>9 5/8" Nortrack Stabilizer</i>                                                                                                                                              | JAO           | JOA97880    | 6 5/8" Reg Box | 6 5/8" Reg Pin | 2.875   | 7.938   |              | 5.56     | 44.24          |
| <b>UBHO Sub</b><br>Description: <i>UBHO Sub</i> , Material: <i>Non-Magnetic</i>                                                                                                                                  | AIM           | 800613      | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.000   |              | 3.00     | 47.24          |
| <b>Drill Collar</b><br>Description: <i>NMDC (Spacer)</i> , Material: <i>Non-Magnetic</i> , Type: <i>Slick Drill</i>                                                                                              | AIM           | DY800009MJ  | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.21    | 77.45          |
| <b>Drill Collar</b><br>Description: <i>NMDC (MWD Tool)</i> , Material: <i>Non-Magnetic</i> , Type: <i>Slick Drill</i>                                                                                            | AIM           | DY80013MJ   | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.25    | 107.70         |
| <b>Crossover Sub</b><br>Description: <i>X-O SUB</i> , Material: <i>Steel</i>                                                                                                                                     | BLACK DIAMOND | BD14829     | EverDrlg54 Box | 6 5/8" Reg Pin | 2.750   | 8.000   |              | 3.17     | 110.87         |
| <b>HWDP</b><br>Description: <i>5.5" HWDP (13 Stands)</i> , Type: <i>Slick</i>                                                                                                                                    | BLACK DIAMOND |             | EverDrlg54 Box | EverDrlg54 Pin | 2.875   | 5.500   |              | 1213.05  | 1323.92        |
| <b>Crossover Sub</b><br>Description: <i>4.5 IF (B) x EverDrill 54 (P)</i> , Material: <i>Steel</i>                                                                                                               | BLACK DIAMOND | BD8071      | 4 1/2" IF Box  | EverDrlg54 Pin | 3.125   | 6.750   |              | 3.87     | 1327.79        |
| <b>Crossover Sub</b><br>Description: <i>CET 43 (B) x 4.5 IF (P)</i> , Material: <i>Steel</i>                                                                                                                     | Platinum      | PPR2786     | CET43 Box      | 4 1/2" IF Pin  | 2.500   | 6.500   |              | 2.83     | 1330.62        |

| MWD Items              |      |            |            |          |          |            |          |                        |  |
|------------------------|------|------------|------------|----------|----------|------------|----------|------------------------|--|
| No Items               |      |            |            |          |          |            |          |                        |  |
| Directional Activities |      |            |            |          |          |            |          |                        |  |
| Activity Type          | Code | Start Date | Start Time | End Time | End Date | Start (ft) | End (ft) | Comments/Details       |  |
| Lay Down BHA           | 65   | 06-13      | 23:00      | 00:15    | 06-14    |            |          | L/D MOTOR AND STAB     |  |
| Pick Up BHA            | 64   | 06-14      | 00:15      | 01:00    | 06-14    |            |          | P/U MOTOR AND STAB BIT |  |
| TIH                    | 8    | 06-14      | 01:00      | 01:40    | 06-14    |            |          | TIH                    |  |
| Other                  | 16   | 06-14      | 01:40      | 03:15    | 06-14    |            |          | Slip & Cut Drill line  |  |
| Standby                | 15   | 06-14      | 03:15      | 06:30    | 06-14    |            |          | Standby                |  |
| TIH                    | 8    | 06-14      | 06:30      | 07:00    | 06-14    |            |          | TIH                    |  |
| Standby                | 15   | 06-14      | 07:00      | 10:00    | 06-14    |            |          | Standby                |  |
| Circulating            | 3    | 06-14      | 10:00      | 20:00    | 06-14    |            |          | wash f 3566            |  |
| Rig Repair             | 14   | 06-14      | 20:00      | 23:20    | 06-14    |            |          | saver sub              |  |
| Circulating            | 3    | 06-14      | 23:20      | 03:05    | 06-15    |            |          | wash to bottom f 5485  |  |

| MWD Activities |  |  |  |  |  |  |  |  |  |
|----------------|--|--|--|--|--|--|--|--|--|
| No Activities  |  |  |  |  |  |  |  |  |  |



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

Tuesday, Jun 15 00:00 - 23:59 (Day 7 of 24)

Billing: \$5,800.00 (\$150,591.57 total)

| Drilling Summary        |         |                     |       | Drilling Parameters       |                   |
|-------------------------|---------|---------------------|-------|---------------------------|-------------------|
| Start Depth (ft)        | 6642.00 | Downhole Hours      | 24.00 | Rotating WOB (klbs)       | 35.00 - 35.00     |
| Bit Depth (ft)          | 9178.00 | Drilling Hours      | 17.83 | Sliding WOB (klbs)        | 15.00 - 15.00     |
| Bottom Hole Depth (ft)  | 9178.00 | Hours Circulating   | 3.75  | Rotating SPM              | 249.00 - 258.00   |
| Total Distance (ft)     | 2536.00 | Hours Sliding       | 3.25  | Sliding SPM               | 258.00 - 258.00   |
| Distance Rotated (ft)   | 2452.00 | Hours Rotating      | 14.58 | Motor RPM                 | 60.00 - 70.00     |
| Distance Slid (ft)      | 84.00   |                     |       | Surface RPM               | 60.00 - 60.00     |
| Inclination In          | 4.88    |                     |       | Flow Rate (gpm)           | 723.00 - 750.00   |
| Inclination Out         | 3.56    |                     |       | On Bottom Pressure (psi)  | 2550.00 - 3750.00 |
| Azimuth In              | 102.50  | % Hours Rotating    | 82%   | Off Bottom Pressure (psi) | 1950.00 - 3100.00 |
| Azimuth Out             | 131.50  | % Hours Sliding     | 18%   |                           |                   |
| AVG Total ROP (ft/h)    | 134.26  | % Distance Sliding  | 3%    |                           |                   |
| AVG Rotating ROP (ft/h) | 168.14  | % Distance Rotating | 97%   |                           |                   |
| AVG Sliding ROP (ft/h)  | 22.42   |                     |       |                           |                   |

## Personnel

| Name                | Position            |
|---------------------|---------------------|
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

## BHA #3 - 9 7/8 Intermediate

Date In: Jun 14, 2021, 1:00 Date Out: Jun 17, 2021, 1:30

| Bit Details                        |          | Motor Details     | Directional Comments                                                                          |
|------------------------------------|----------|-------------------|-----------------------------------------------------------------------------------------------|
| OD (in)                            | 9.880    | Size (in)         | 8.0                                                                                           |
| Vendor                             | Ultrerra | Lobe/Stage        | 7/8, 5.9                                                                                      |
| S/N                                | 56248    | Bend Angle        | 1.75                                                                                          |
| Nozzles                            | 6x15's   | Speed (rev/gal)   | 0.15                                                                                          |
| Total Flow Area (in <sup>2</sup> ) | 1.035    | Wear Pad OD (in)  | 8.250                                                                                         |
| Drilling Hours for Day             | 17.83    | Bit Distances     |                                                                                               |
| Total Drilled for Day (ft)         | 2536.00  | Survey: 68.00 ft, |                                                                                               |
| Drilling Hours for BHA             | 39.83    | Gamma: 53.00 ft   |                                                                                               |
| Total Drilled for BHA (ft)         | 3377.00  |                   |                                                                                               |
|                                    |          |                   | <b>MWD Comments</b>                                                                           |
|                                    |          |                   |                                                                                               |
|                                    |          |                   | <b>POOH Reason</b>                                                                            |
|                                    |          |                   | Penetration Rate: WHEN MOTOR REACHED RIG FLOOR BEARINGS HAD SIGNIFICANT SLACK WHEN COMPRESSED |

## Directional Items

| Description                                                                                                                                                       | Vendor        | SN#         | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: 9 7/8 ULTERRA XP616, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 3.50, Size (in): 9.88             | Ultrerra      | 56248       | 6 5/8" Reg Pin |                |         | 9.880   |              | 1.50     | 1.50           |
| <b>Mud Motor</b><br>Description: 8" 7/8 5.9 Stg. 1.75° FBH w/ 9 5/8" NBS, Size (in): 8.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.9 | Butch's       | BDT-800-006 | 6 5/8" Reg Box | 6 5/8" Reg Box |         | 8.000   |              | 37.18    | 38.68          |
| <b>Stabilizer</b><br>Description: 9 5/8" Nortrack Stabilizer                                                                                                      | JAO           | JOA97880    | 6 5/8" Reg Box | 6 5/8" Reg Pin | 2.875   | 7.938   |              | 5.56     | 44.24          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                                  | AIM           | 800613      | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.000   |              | 3.00     | 47.24          |
| <b>Drill Collar</b><br>Description: NMDC (Spacer), Material: Non-Magnetic, Type: Slick Drill                                                                      | AIM           | DY800009MJ  | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.21    | 77.45          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                                    | AIM           | DY80013MJ   | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.25    | 107.70         |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                                     | BLACK DIAMOND | BD14829     | EverDrlg54 Box | 6 5/8" Reg Pin | 2.750   | 8.000   |              | 3.17     | 110.87         |
| <b>HWDP</b><br>Description: 5.5" HWDP (13 Stands), Type: Slick                                                                                                    | BLACK DIAMOND |             | EverDrlg54 Box | EverDrlg54 Pin | 2.875   | 5.500   |              | 1213.05  | 1323.92        |
| <b>Crossover Sub</b><br>Description: 4.5 IF (B) x EverDrill 54 (P), Material: Steel                                                                               | BLACK DIAMOND | BD8071      | 4 1/2" IF Box  | EverDrlg54 Pin | 3.125   | 6.750   |              | 3.87     | 1327.79        |

**Crossover Sub**Description: *CET 43 (B) x 4.5 IF (P)*,  
Material: *Steel*

Platinum

PPR2786

CET43 Box

4 1/2" IF Pin

2.500

6.500

2.83

1330.62

**MWD Items**

No Items

**Directional Activities**

| Activity Type | Code | Start Date | Start Time | End Time | End Date | Start (ft) | End (ft) | Comments/Details                                                                                                                                                                                                                                     |
|---------------|------|------------|------------|----------|----------|------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circulating   | 3    | 06-14      | 23:20      | 03:05    | 06-15    |            |          | wash to bottom f 5485                                                                                                                                                                                                                                |
| Rotary Drill  | 1    | 06-15      | 03:05      | 03:20    | 06-15    | 6642.00    | 6704.00  | Pressure On (psi): <i>2550.00</i> , Pressure Off (psi): <i>1950.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>13000.00</i> , Flow Rate (gpm): <i>723.00</i> , Strokes Per Minute: <i>249.00</i> |
| Survey        | 46   | 06-15      | 03:20      | 03:25    | 06-15    | 6704.00    | 6704.00  | Inclination (°): <i>4.880</i> , Azimuth (°): <i>102.500</i> , TVD (ft): <i>6631.33</i> , Dogleg (%/100 ft): <i>0.19</i> , Sensor Depth (ft): <i>6636.00</i> , Bit To Sensor (ft): <i>68.00</i>                                                       |
| Rotary Drill  | 1    | 06-15      | 03:25      | 03:30    | 06-15    | 6704.00    | 6714.00  | Pressure On (psi): <i>2550.00</i> , Pressure Off (psi): <i>1950.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>13000.00</i> , Flow Rate (gpm): <i>723.00</i> , Strokes Per Minute: <i>249.00</i> |
| Slide Drill   | 2    | 06-15      | 03:30      | 04:00    | 06-15    | 6714.00    | 6729.00  | Pressure On (psi): <i>2900.00</i> , Pressure Off (psi): <i>2500.00</i> , Weight On Bit (klbs): <i>15.00</i> , Flow Rate (gpm): <i>750.00</i> , Strokes Per Minute: <i>258</i> , Toolface: <i>193</i> , Toolface Type: <i>magnetic</i>                |
| Rotary Drill  | 1    | 06-15      | 04:00      | 04:20    | 06-15    | 6729.00    | 6800.00  | Pressure On (psi): <i>3400.00</i> , Pressure Off (psi): <i>2500.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>13000.00</i> , Flow Rate (gpm): <i>723.00</i> , Strokes Per Minute: <i>249.00</i> |
| Survey        | 46   | 06-15      | 04:20      | 04:25    | 06-15    | 6800.00    | 6800.00  | Inclination (°): <i>4.880</i> , Azimuth (°): <i>109.970</i> , TVD (ft): <i>6726.98</i> , Dogleg (%/100 ft): <i>0.66</i> , Sensor Depth (ft): <i>6732.00</i> , Bit To Sensor (ft): <i>68.00</i>                                                       |
| Rotary Drill  | 1    | 06-15      | 04:25      | 04:40    | 06-15    | 6800.00    | 6894.00  | Pressure On (psi): <i>3400.00</i> , Pressure Off (psi): <i>2500.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>13000.00</i> , Flow Rate (gpm): <i>723.00</i> , Strokes Per Minute: <i>249.00</i> |
| Survey        | 46   | 06-15      | 04:40      | 04:45    | 06-15    | 6894.00    | 6894.00  | Inclination (°): <i>4.970</i> , Azimuth (°): <i>114.190</i> , TVD (ft): <i>6820.64</i> , Dogleg (%/100 ft): <i>0.40</i> , Sensor Depth (ft): <i>6826.00</i> , Bit To Sensor (ft): <i>68.00</i>                                                       |
| Rotary Drill  | 1    | 06-15      | 04:45      | 05:00    | 06-15    | 6894.00    | 6988.00  | Pressure On (psi): <i>3400.00</i> , Pressure Off (psi): <i>2500.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>13000.00</i> , Flow Rate (gpm): <i>723.00</i> , Strokes Per Minute: <i>249.00</i> |
| Survey        | 46   | 06-15      | 05:00      | 05:05    | 06-15    | 6988.00    | 6988.00  | Inclination (°): <i>4.840</i> , Azimuth (°): <i>112.340</i> , TVD (ft): <i>6914.29</i> , Dogleg (%/100 ft): <i>0.22</i> , Sensor Depth (ft): <i>6920.00</i> , Bit To Sensor (ft): <i>68.00</i>                                                       |
| Rotary Drill  | 1    | 06-15      | 05:05      | 05:10    | 06-15    | 6988.00    | 7004.00  | Pressure On (psi): <i>3400.00</i> , Pressure Off (psi): <i>2500.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>13000.00</i> , Flow Rate (gpm): <i>723.00</i> , Strokes Per Minute: <i>249.00</i> |
| Slide Drill   | 2    | 06-15      | 05:10      | 05:40    | 06-15    | 7004.00    | 7019.00  | Pressure On (psi): <i>2900.00</i> , Pressure Off (psi): <i>2500.00</i> , Weight On Bit (klbs): <i>15.00</i> , Flow Rate (gpm): <i>750.00</i> , Strokes Per Minute: <i>258</i> , Toolface: <i>200</i> , Toolface Type: <i>magnetic</i>                |
| Rotary Drill  | 1    | 06-15      | 05:40      | 05:55    | 06-15    | 7019.00    | 7083.00  | Pressure On (psi): <i>3400.00</i> , Pressure Off (psi): <i>2500.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>13000.00</i> , Flow Rate (gpm): <i>723.00</i> , Strokes Per Minute: <i>249.00</i> |
| Survey        | 46   | 06-15      | 05:55      | 06:00    | 06-15    | 7083.00    | 7083.00  | Inclination (°): <i>4.750</i> , Azimuth (°): <i>120.950</i> , TVD (ft): <i>7008.96</i> , Dogleg (%/100 ft): <i>0.76</i> , Sensor Depth (ft): <i>7015.00</i> , Bit To Sensor (ft): <i>68.00</i>                                                       |
| Rotary Drill  | 1    | 06-15      | 06:00      | 06:20    | 06-15    | 7083.00    | 7178.00  | Pressure On (psi): <i>3400.00</i> , Pressure Off (psi): <i>2500.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>13000.00</i> , Flow Rate (gpm): <i>723.00</i> , Strokes Per Minute: <i>249.00</i> |
| Survey        | 46   | 06-15      | 06:20      | 06:25    | 06-15    | 7178.00    | 7178.00  | Inclination (°): <i>4.530</i> , Azimuth (°): <i>127.370</i> , TVD (ft): <i>7103.65</i> , Dogleg (%/100 ft): <i>0.59</i> , Sensor Depth (ft): <i>7110.00</i> , Bit To Sensor (ft): <i>68.00</i>                                                       |
| Rotary Drill  | 1    | 06-15      | 06:25      | 06:40    | 06-15    | 7178.00    | 7273.00  | Pressure On (psi): <i>3400.00</i> , Pressure Off (psi): <i>2500.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>13000.00</i> , Flow Rate (gpm): <i>723.00</i> , Strokes Per Minute: <i>249.00</i> |
| Survey        | 46   | 06-15      | 06:40      | 06:45    | 06-15    | 7273.00    | 7273.00  | Inclination (°): <i>4.480</i> , Azimuth (°): <i>129.210</i> , TVD (ft): <i>7198.36</i> , Dogleg (%/100 ft): <i>0.16</i> , Sensor Depth (ft): <i>7205.00</i> , Bit To Sensor (ft): <i>68.00</i>                                                       |
| Rotary Drill  | 1    | 06-15      | 06:45      | 07:00    | 06-15    | 7273.00    | 7368.00  | Pressure On (psi): <i>3400.00</i> , Pressure Off (psi): <i>2500.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>13000.00</i> , Flow Rate (gpm): <i>723.00</i> , Strokes Per Minute: <i>249.00</i> |
| Survey        | 46   | 06-15      | 07:00      | 07:05    | 06-15    | 7368.00    | 7368.00  | Inclination (°): <i>4.220</i> , Azimuth (°): <i>128.690</i> , TVD (ft): <i>7293.08</i> , Dogleg (%/100 ft): <i>0.28</i> , Sensor Depth (ft): <i>7300.00</i> , Bit To Sensor (ft): <i>68.00</i>                                                       |
| Rotary Drill  | 1    | 06-15      | 07:05      | 07:25    | 06-15    | 7368.00    | 7463.00  | Pressure On (psi): <i>3400.00</i> , Pressure Off (psi): <i>2500.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>13000.00</i> , Flow Rate (gpm): <i>723.00</i> , Strokes Per Minute: <i>249.00</i> |
| Survey        | 46   | 06-15      | 07:25      | 07:30    | 06-15    | 7463.00    | 7463.00  | Inclination (°): <i>3.910</i> , Azimuth (°): <i>127.810</i> , TVD (ft): <i>7387.84</i> , Dogleg (%/100 ft): <i>0.33</i> , Sensor Depth (ft): <i>7395.00</i> , Bit To Sensor (ft): <i>68.00</i>                                                       |

|              |    |       |       |       |       |         |         |                                                                                                                                                                                               |
|--------------|----|-------|-------|-------|-------|---------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rotary Drill | 1  | 06-15 | 07:30 | 07:50 | 06-15 | 7463.00 | 7557.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-15 | 07:50 | 07:55 | 06-15 | 7557.00 | 7557.00 | Inclination (°): 3.870, Azimuth (°): 128.420, TVD (ft): 7481.63, Dogleg (%/100 ft): 0.06, Sensor Depth (ft): 7489.00, Bit To Sensor (ft): 68.00                                               |
| Rotary Drill | 1  | 06-15 | 07:55 | 08:10 | 06-15 | 7557.00 | 7652.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-15 | 08:10 | 08:15 | 06-15 | 7652.00 | 7652.00 | Inclination (°): 3.600, Azimuth (°): 130.010, TVD (ft): 7576.43, Dogleg (%/100 ft): 0.30, Sensor Depth (ft): 7584.00, Bit To Sensor (ft): 68.00                                               |
| Rotary Drill | 1  | 06-15 | 08:15 | 08:35 | 06-15 | 7652.00 | 7747.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-15 | 08:35 | 08:40 | 06-15 | 7747.00 | 7747.00 | Inclination (°): 3.520, Azimuth (°): 125.260, TVD (ft): 7671.24, Dogleg (%/100 ft): 0.32, Sensor Depth (ft): 7679.00, Bit To Sensor (ft): 68.00                                               |
| Rotary Drill | 1  | 06-15 | 08:40 | 08:50 | 06-15 | 7747.00 | 7760.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Slide Drill  | 2  | 06-15 | 08:50 | 09:25 | 06-15 | 7760.00 | 7777.00 | Pressure On (psi): 3300.00, Pressure Off (psi): 2900.00, Weight On Bit (klbs): 15.00, Flow Rate (gpm): 746.00, Strokes Per Minute: 258, Toolface: 100, Toolface Type: magnetic                |
| Rotary Drill | 1  | 06-15 | 09:25 | 09:40 | 06-15 | 7777.00 | 7841.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-15 | 09:40 | 09:45 | 06-15 | 7841.00 | 7841.00 | Inclination (°): 3.120, Azimuth (°): 125.000, TVD (ft): 7765.09, Dogleg (%/100 ft): 0.43, Sensor Depth (ft): 7773.00, Bit To Sensor (ft): 68.00                                               |
| Rotary Drill | 1  | 06-15 | 09:45 | 09:55 | 06-15 | 7841.00 | 7855.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Slide Drill  | 2  | 06-15 | 09:55 | 10:35 | 06-15 | 7855.00 | 7873.00 | Pressure On (psi): 3300.00, Pressure Off (psi): 2900.00, Weight On Bit (klbs): 15.00, Flow Rate (gpm): 746.00, Strokes Per Minute: 258, Toolface: 100, Toolface Type: magnetic                |
| Rotary Drill | 1  | 06-15 | 10:35 | 10:50 | 06-15 | 7873.00 | 7936.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-15 | 10:50 | 10:55 | 06-15 | 7936.00 | 7936.00 | Inclination (°): 3.870, Azimuth (°): 119.200, TVD (ft): 7859.91, Dogleg (%/100 ft): 0.87, Sensor Depth (ft): 7868.00, Bit To Sensor (ft): 68.00                                               |
| Rotary Drill | 1  | 06-15 | 10:55 | 11:15 | 06-15 | 7936.00 | 8031.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-15 | 11:15 | 11:20 | 06-15 | 8031.00 | 8031.00 | Inclination (°): 4.310, Azimuth (°): 119.280, TVD (ft): 7954.67, Dogleg (%/100 ft): 0.46, Sensor Depth (ft): 7963.00, Bit To Sensor (ft): 68.00                                               |
| Rotary Drill | 1  | 06-15 | 11:20 | 11:45 | 06-15 | 8031.00 | 8126.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-15 | 11:45 | 11:50 | 06-15 | 8126.00 | 8126.00 | Inclination (°): 4.260, Azimuth (°): 119.630, TVD (ft): 8049.40, Dogleg (%/100 ft): 0.06, Sensor Depth (ft): 8058.00, Bit To Sensor (ft): 68.00                                               |
| Rotary Drill | 1  | 06-15 | 11:50 | 12:10 | 06-15 | 8126.00 | 8221.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-15 | 12:10 | 12:15 | 06-15 | 8221.00 | 8221.00 | Inclination (°): 4.400, Azimuth (°): 121.920, TVD (ft): 8144.13, Dogleg (%/100 ft): 0.23, Sensor Depth (ft): 8153.00, Bit To Sensor (ft): 68.00                                               |
| Rotary Drill | 1  | 06-15 | 12:15 | 12:50 | 06-15 | 8221.00 | 8316.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-15 | 12:50 | 12:55 | 06-15 | 8316.00 | 8316.00 | Inclination (°): 4.180, Azimuth (°): 123.590, TVD (ft): 8238.86, Dogleg (%/100 ft): 0.27, Sensor Depth (ft): 8248.00, Bit To Sensor (ft): 68.00                                               |
| Rotary Drill | 1  | 06-15 | 12:55 | 13:25 | 06-15 | 8316.00 | 8411.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-15 | 13:25 | 13:30 | 06-15 | 8411.00 | 8411.00 | Inclination (°): 4.040, Azimuth (°): 120.600, TVD (ft): 8333.62, Dogleg (%/100 ft): 0.27, Sensor Depth (ft): 8343.00, Bit To Sensor (ft): 68.00                                               |
| Rotary Drill | 1  | 06-15 | 13:30 | 13:50 | 06-15 | 8411.00 | 8505.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |

|              |    |       |       |       |       |         |         |                                                                                                                                                                                               |
|--------------|----|-------|-------|-------|-------|---------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Survey       | 46 | 06-15 | 13:50 | 13:55 | 06-15 | 8505.00 | 8505.00 | Inclination (°): 3.960, Azimuth (°): 124.910, TVD (ft): 8427.39, Dogleg (%/100 ft): 0.33, Sensor Depth (ft): 8437.00, Bit To Sensor (ft): 68.00                                               |
| Rotary Drill | 1  | 06-15 | 13:55 | 14:30 | 06-15 | 8505.00 | 8600.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-15 | 14:30 | 14:35 | 06-15 | 8600.00 | 8600.00 | Inclination (°): 3.780, Azimuth (°): 126.140, TVD (ft): 8522.17, Dogleg (%/100 ft): 0.21, Sensor Depth (ft): 8532.00, Bit To Sensor (ft): 68.00                                               |
| Rotary Drill | 1  | 06-15 | 14:35 | 15:30 | 06-15 | 8600.00 | 8694.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-15 | 15:30 | 15:35 | 06-15 | 8694.00 | 8694.00 | Inclination (°): 3.380, Azimuth (°): 131.240, TVD (ft): 8615.99, Dogleg (%/100 ft): 0.54, Sensor Depth (ft): 8626.00, Bit To Sensor (ft): 68.00                                               |
| Rotary Drill | 1  | 06-15 | 15:35 | 16:35 | 06-15 | 8694.00 | 8790.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-15 | 16:35 | 16:40 | 06-15 | 8790.00 | 8790.00 | Inclination (°): 3.470, Azimuth (°): 134.050, TVD (ft): 8711.82, Dogleg (%/100 ft): 0.20, Sensor Depth (ft): 8722.00, Bit To Sensor (ft): 68.00                                               |
| Rotary Drill | 1  | 06-15 | 16:40 | 16:55 | 06-15 | 8790.00 | 8801.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Slide Drill  | 2  | 06-15 | 16:55 | 17:55 | 06-15 | 8801.00 | 8820.00 | Pressure On (psi): 3500.00, Pressure Off (psi): 3100.00, Weight On Bit (klbs): 15.00, Flow Rate (gpm): 750.00, Strokes Per Minute: 258, Toolface: 100, Toolface Type: magnetic                |
| Rotary Drill | 1  | 06-15 | 17:55 | 18:45 | 06-15 | 8820.00 | 8885.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-15 | 18:45 | 18:50 | 06-15 | 8885.00 | 8885.00 | Inclination (°): 3.820, Azimuth (°): 130.970, TVD (ft): 8806.63, Dogleg (%/100 ft): 0.42, Sensor Depth (ft): 8817.00, Bit To Sensor (ft): 68.00                                               |
| Rotary Drill | 1  | 06-15 | 18:50 | 20:20 | 06-15 | 8885.00 | 8979.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-15 | 20:20 | 20:25 | 06-15 | 8979.00 | 8979.00 | Inclination (°): 4.000, Azimuth (°): 129.300, TVD (ft): 8900.41, Dogleg (%/100 ft): 0.23, Sensor Depth (ft): 8911.00, Bit To Sensor (ft): 68.00                                               |
| Rotary Drill | 1  | 06-15 | 20:25 | 21:50 | 06-15 | 8979.00 | 9073.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-15 | 21:50 | 21:55 | 06-15 | 9073.00 | 9073.00 | Inclination (°): 3.600, Azimuth (°): 127.980, TVD (ft): 8994.20, Dogleg (%/100 ft): 0.44, Sensor Depth (ft): 9005.00, Bit To Sensor (ft): 68.00                                               |
| Rotary Drill | 1  | 06-15 | 21:55 | 22:55 | 06-15 | 9073.00 | 9168.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-15 | 22:55 | 23:00 | 06-15 | 9168.00 | 9168.00 | Inclination (°): 3.560, Azimuth (°): 131.500, TVD (ft): 9089.02, Dogleg (%/100 ft): 0.24, Sensor Depth (ft): 9100.00, Bit To Sensor (ft): 68.00                                               |
| Rotary Drill | 1  | 06-15 | 23:00 | 23:10 | 06-15 | 9168.00 | 9178.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Slide Drill  | 2  | 06-15 | 23:10 | 00:20 | 06-16 | 9178.00 | 9193.00 | Pressure On (psi): 3500.00, Pressure Off (psi): 3100.00, Weight On Bit (klbs): 15.00, Flow Rate (gpm): 750.00, Strokes Per Minute: 258, Toolface: 85, Toolface Type: magnetic                 |

**MWD Activities**

No Activities



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

Wednesday, Jun 16 00:00 - 23:59 (Day 8 of 24)

Billing: \$5,800.00 (\$150,591.57 total)

| Drilling Summary        |          |                     |       | Drilling Parameters       |                   |
|-------------------------|----------|---------------------|-------|---------------------------|-------------------|
| Start Depth (ft)        | 9178.00  | Downhole Hours      | 24.00 | Rotating WOB (klbs)       | 35.00 - 35.00     |
| Bit Depth (ft)          | 10019.00 | Drilling Hours      | 22.00 | Sliding WOB (klbs)        | 15.00 - 15.00     |
| Bottom Hole Depth (ft)  | 10019.00 | Hours Circulating   | 0.42  | Rotating SPM              | 258.00 - 258.00   |
| Total Distance (ft)     | 841.00   | Hours Sliding       | 6.33  | Sliding SPM               | 258.00 - 258.00   |
| Distance Rotated (ft)   | 761.00   | Hours Rotating      | 15.67 | Motor RPM                 | 60.00 - 70.00     |
| Distance Slid (ft)      | 80.00    |                     |       | Surface RPM               | 60.00 - 60.00     |
| Inclination In          | 3.25     |                     |       | Flow Rate (gpm)           | 747.00 - 750.00   |
| Inclination Out         | 3.38     |                     |       | On Bottom Pressure (psi)  | 3500.00 - 3750.00 |
| Azimuth In              | 120.69   | % Hours Rotating    | 71%   | Off Bottom Pressure (psi) | 2950.00 - 3100.00 |
| Azimuth Out             | 135.72   | % Hours Sliding     | 29%   |                           |                   |
| AVG Total ROP (ft/h)    | 38.23    | % Distance Sliding  | 10%   |                           |                   |
| AVG Rotating ROP (ft/h) | 48.57    | % Distance Rotating | 90%   |                           |                   |
| AVG Sliding ROP (ft/h)  | 12.63    |                     |       |                           |                   |

## Personnel

| Name                | Position            |
|---------------------|---------------------|
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

## BHA #3 - 9 7/8 Intermediate

Date In: Jun 14, 2021, 1:00 Date Out: Jun 17, 2021, 1:30

| Bit Details                        |          | Motor Details     | Directional Comments                                                                                 |
|------------------------------------|----------|-------------------|------------------------------------------------------------------------------------------------------|
| OD (in)                            | 9.880    | Size (in)         | 8.0                                                                                                  |
| Vendor                             | Ultrerra | Lobe/Stage        | 7/8, 5.9                                                                                             |
| S/N                                | 56248    | Bend Angle        | 1.75                                                                                                 |
| Nozzles                            | 6x15's   | Speed (rev/gal)   | 0.15                                                                                                 |
| Total Flow Area (in <sup>2</sup> ) | 1.035    | Wear Pad OD (in)  | 8.250                                                                                                |
| Drilling Hours for Day             | 22.00    | Bit Distances     |                                                                                                      |
| Total Drilled for Day (ft)         | 841.00   | Survey: 68.00 ft, |                                                                                                      |
| Drilling Hours for BHA             | 39.83    | Gamma: 53.00 ft   |                                                                                                      |
| Total Drilled for BHA (ft)         | 3377.00  |                   |                                                                                                      |
|                                    |          |                   | <b>MWD Comments</b>                                                                                  |
|                                    |          |                   |                                                                                                      |
|                                    |          |                   | <b>POOH Reason</b>                                                                                   |
|                                    |          |                   | <b>Penetration Rate:</b> WHEN MOTOR REACHED RIG FLOOR BEARINGS HAD SIGNIFICANT SLACK WHEN COMPRESSED |

## Directional Items

| Description                                                                                                                                                       | Vendor        | SN#         | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: 9 7/8 ULTERRA XP616, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 3.50, Size (in): 9.88             | Ultrerra      | 56248       | 6 5/8" Reg Pin |                |         | 9.880   |              | 1.50     | 1.50           |
| <b>Mud Motor</b><br>Description: 8" 7/8 5.9 Stg. 1.75° FBH w/ 9 5/8" NBS, Size (in): 8.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.9 | Butch's       | BDT-800-006 | 6 5/8" Reg Box | 6 5/8" Reg Box |         | 8.000   |              | 37.18    | 38.68          |
| <b>Stabilizer</b><br>Description: 9 5/8" Nortrack Stabilizer                                                                                                      | JAO           | JOA97880    | 6 5/8" Reg Box | 6 5/8" Reg Pin | 2.875   | 7.938   |              | 5.56     | 44.24          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                                  | AIM           | 800613      | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.000   |              | 3.00     | 47.24          |
| <b>Drill Collar</b><br>Description: NMDC (Spacer), Material: Non-Magnetic, Type: Slick Drill                                                                      | AIM           | DY800009MJ  | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.21    | 77.45          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                                    | AIM           | DY80013MJ   | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.25    | 107.70         |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                                     | BLACK DIAMOND | BD14829     | EverDrlg54 Box | 6 5/8" Reg Pin | 2.750   | 8.000   |              | 3.17     | 110.87         |
| <b>HWDP</b><br>Description: 5.5" HWDP (13 Stands), Type: Slick                                                                                                    | BLACK DIAMOND |             | EverDrlg54 Box | EverDrlg54 Pin | 2.875   | 5.500   |              | 1213.05  | 1323.92        |
| <b>Crossover Sub</b><br>Description: 4.5 IF (B) x EverDrill 54 (P), Material: Steel                                                                               | BLACK DIAMOND | BD8071      | 4 1/2" IF Box  | EverDrlg54 Pin | 3.125   | 6.750   |              | 3.87     | 1327.79        |

|                                                                                                 |          |         |           |               |       |       |  |      |         |
|-------------------------------------------------------------------------------------------------|----------|---------|-----------|---------------|-------|-------|--|------|---------|
| <b>Crossover Sub</b><br>Description: <i>CET 43 (B) x 4.5 IF (P)</i> ,<br>Material: <i>Steel</i> | Platinum | PPR2786 | CET43 Box | 4 1/2" IF Pin | 2.500 | 6.500 |  | 2.83 | 1330.62 |
|-------------------------------------------------------------------------------------------------|----------|---------|-----------|---------------|-------|-------|--|------|---------|

**MWD Items**

No Items

**Directional Activities**

| Activity Type | Code | Start Date | Start Time | End Time | End Date | Start (ft) | End (ft) | Comments/Details                                                                                                                                                                                                                                     |
|---------------|------|------------|------------|----------|----------|------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Slide Drill   | 2    | 06-15      | 23:10      | 00:20    | 06-16    | 9178.00    | 9193.00  | Pressure On (psi): <i>3500.00</i> , Pressure Off (psi): <i>3100.00</i> , Weight On Bit (klbs): <i>15.00</i> , Flow Rate (gpm): <i>750.00</i> , Strokes Per Minute: <i>258</i> , Toolface: <i>85</i> , Toolface Type: <i>magnetic</i>                 |
| Rotary Drill  | 1    | 06-16      | 00:20      | 01:15    | 06-16    | 9193.00    | 9262.00  | Pressure On (psi): <i>3750.00</i> , Pressure Off (psi): <i>2950.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>19000.00</i> , Flow Rate (gpm): <i>747.00</i> , Strokes Per Minute: <i>258.00</i> |
| Survey        | 46   | 06-16      | 01:15      | 01:20    | 06-16    | 9262.00    | 9262.00  | Inclination (°): <i>3.250</i> , Azimuth (°): <i>120.690</i> , TVD (ft): <i>9182.85</i> , Dogleg (%/100 ft): <i>0.76</i> , Sensor Depth (ft): <i>9194.00</i> , Bit To Sensor (ft): <i>68.00</i>                                                       |
| Rotary Drill  | 1    | 06-16      | 01:20      | 01:25    | 06-16    | 9262.00    | 9267.00  | Pressure On (psi): <i>3750.00</i> , Pressure Off (psi): <i>2950.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>19000.00</i> , Flow Rate (gpm): <i>747.00</i> , Strokes Per Minute: <i>258.00</i> |
| Slide Drill   | 2    | 06-16      | 01:25      | 03:15    | 06-16    | 9267.00    | 9297.00  | Pressure On (psi): <i>3500.00</i> , Pressure Off (psi): <i>3100.00</i> , Weight On Bit (klbs): <i>15.00</i> , Flow Rate (gpm): <i>750.00</i> , Strokes Per Minute: <i>258</i> , Toolface: <i>120</i> , Toolface Type: <i>magnetic</i>                |
| Rotary Drill  | 1    | 06-16      | 03:15      | 04:10    | 06-16    | 9297.00    | 9357.00  | Pressure On (psi): <i>3750.00</i> , Pressure Off (psi): <i>2950.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>19000.00</i> , Flow Rate (gpm): <i>747.00</i> , Strokes Per Minute: <i>258.00</i> |
| Survey        | 46   | 06-16      | 04:10      | 04:15    | 06-16    | 9357.00    | 9357.00  | Inclination (°): <i>4.090</i> , Azimuth (°): <i>125.170</i> , TVD (ft): <i>9277.65</i> , Dogleg (%/100 ft): <i>0.93</i> , Sensor Depth (ft): <i>9289.00</i> , Bit To Sensor (ft): <i>68.00</i>                                                       |
| Rotary Drill  | 1    | 06-16      | 04:15      | 05:10    | 06-16    | 9357.00    | 9452.00  | Pressure On (psi): <i>3750.00</i> , Pressure Off (psi): <i>2950.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>19000.00</i> , Flow Rate (gpm): <i>747.00</i> , Strokes Per Minute: <i>258.00</i> |
| Survey        | 46   | 06-16      | 05:10      | 05:15    | 06-16    | 9452.00    | 9452.00  | Inclination (°): <i>4.310</i> , Azimuth (°): <i>124.380</i> , TVD (ft): <i>9372.40</i> , Dogleg (%/100 ft): <i>0.24</i> , Sensor Depth (ft): <i>9384.00</i> , Bit To Sensor (ft): <i>68.00</i>                                                       |
| Rotary Drill  | 1    | 06-16      | 05:15      | 06:15    | 06-16    | 9452.00    | 9546.00  | Pressure On (psi): <i>3750.00</i> , Pressure Off (psi): <i>2950.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>19000.00</i> , Flow Rate (gpm): <i>747.00</i> , Strokes Per Minute: <i>258.00</i> |
| Survey        | 46   | 06-16      | 06:15      | 06:20    | 06-16    | 9546.00    | 9546.00  | Inclination (°): <i>3.430</i> , Azimuth (°): <i>123.770</i> , TVD (ft): <i>9466.18</i> , Dogleg (%/100 ft): <i>0.94</i> , Sensor Depth (ft): <i>9478.00</i> , Bit To Sensor (ft): <i>68.00</i>                                                       |
| Rotary Drill  | 1    | 06-16      | 06:20      | 07:50    | 06-16    | 9546.00    | 9641.00  | Pressure On (psi): <i>3750.00</i> , Pressure Off (psi): <i>2950.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>19000.00</i> , Flow Rate (gpm): <i>747.00</i> , Strokes Per Minute: <i>258.00</i> |
| Survey        | 46   | 06-16      | 07:50      | 07:55    | 06-16    | 9641.00    | 9641.00  | Inclination (°): <i>3.160</i> , Azimuth (°): <i>120.600</i> , TVD (ft): <i>9561.03</i> , Dogleg (%/100 ft): <i>0.34</i> , Sensor Depth (ft): <i>9573.00</i> , Bit To Sensor (ft): <i>68.00</i>                                                       |
| Rotary Drill  | 1    | 06-16      | 07:55      | 08:10    | 06-16    | 9641.00    | 9651.00  | Pressure On (psi): <i>3750.00</i> , Pressure Off (psi): <i>2950.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>19000.00</i> , Flow Rate (gpm): <i>747.00</i> , Strokes Per Minute: <i>258.00</i> |
| Slide Drill   | 2    | 06-16      | 08:10      | 09:40    | 06-16    | 9651.00    | 9666.00  | Pressure On (psi): <i>3500.00</i> , Pressure Off (psi): <i>3100.00</i> , Weight On Bit (klbs): <i>15.00</i> , Flow Rate (gpm): <i>750.00</i> , Strokes Per Minute: <i>258</i> , Toolface: <i>120</i> , Toolface Type: <i>magnetic</i>                |
| Rotary Drill  | 1    | 06-16      | 09:40      | 11:45    | 06-16    | 9666.00    | 9734.00  | Pressure On (psi): <i>3750.00</i> , Pressure Off (psi): <i>2950.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>19000.00</i> , Flow Rate (gpm): <i>747.00</i> , Strokes Per Minute: <i>258.00</i> |
| Survey        | 46   | 06-16      | 11:45      | 11:50    | 06-16    | 9734.00    | 9734.00  | Inclination (°): <i>2.730</i> , Azimuth (°): <i>118.760</i> , TVD (ft): <i>9653.90</i> , Dogleg (%/100 ft): <i>0.47</i> , Sensor Depth (ft): <i>9666.00</i> , Bit To Sensor (ft): <i>68.00</i>                                                       |
| Rotary Drill  | 1    | 06-16      | 11:50      | 12:10    | 06-16    | 9734.00    | 9744.00  | Pressure On (psi): <i>3750.00</i> , Pressure Off (psi): <i>2950.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>19000.00</i> , Flow Rate (gpm): <i>747.00</i> , Strokes Per Minute: <i>258.00</i> |
| Slide Drill   | 2    | 06-16      | 12:10      | 14:00    | 06-16    | 9744.00    | 9764.00  | Pressure On (psi): <i>3500.00</i> , Pressure Off (psi): <i>3100.00</i> , Weight On Bit (klbs): <i>15.00</i> , Flow Rate (gpm): <i>750.00</i> , Strokes Per Minute: <i>258</i> , Toolface: <i>120</i> , Toolface Type: <i>magnetic</i>                |
| Rotary Drill  | 1    | 06-16      | 14:00      | 15:35    | 06-16    | 9764.00    | 9828.00  | Pressure On (psi): <i>3750.00</i> , Pressure Off (psi): <i>2950.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>19000.00</i> , Flow Rate (gpm): <i>747.00</i> , Strokes Per Minute: <i>258.00</i> |
| Survey        | 46   | 06-16      | 15:35      | 15:40    | 06-16    | 9828.00    | 9828.00  | Inclination (°): <i>3.600</i> , Azimuth (°): <i>126.580</i> , TVD (ft): <i>9747.76</i> , Dogleg (%/100 ft): <i>1.03</i> , Sensor Depth (ft): <i>9760.00</i> , Bit To Sensor (ft): <i>68.00</i>                                                       |
| Rotary Drill  | 1    | 06-16      | 15:40      | 18:00    | 06-16    | 9828.00    | 9923.00  | Pressure On (psi): <i>3750.00</i> , Pressure Off (psi): <i>2950.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>19000.00</i> , Flow Rate (gpm): <i>747.00</i> , Strokes Per Minute: <i>258.00</i> |
| Survey        | 46   | 06-16      | 18:00      | 18:05    | 06-16    | 9923.00    | 9923.00  | Inclination (°): <i>3.380</i> , Azimuth (°): <i>135.720</i> , TVD (ft): <i>9842.58</i> , Dogleg (%/100 ft): <i>0.63</i> , Sensor Depth (ft): <i>9855.00</i> , Bit To Sensor (ft): <i>68.00</i>                                                       |

|              |   |       |       |       |       |         |          |                                                                                                                                                                                               |
|--------------|---|-------|-------|-------|-------|---------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rotary Drill | 1 | 06-16 | 18:05 | 21:50 | 06-16 | 9923.00 | 10019.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Circulating  | 3 | 06-16 | 21:50 | 22:15 | 06-16 |         |          | CIR BTM UP                                                                                                                                                                                    |
| Pooh         | 7 | 06-16 | 22:15 | 01:30 | 06-17 |         |          | POOH for ROP                                                                                                                                                                                  |

**MWD Activities**

No Activities



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

Thursday, Jun 17 00:00 - 23:59 (Day 9 of 24)

Billing: \$9,200.00 (\$150,591.57 total)

| Drilling Summary        |          |                     |       | Drilling Parameters       |                   |
|-------------------------|----------|---------------------|-------|---------------------------|-------------------|
| Start Depth (ft)        | 10019.00 | Downhole Hours      | 23.50 | Rotating WOB (klbs)       | 35.00 - 35.00     |
| Bit Depth (ft)          | 10645.00 | Drilling Hours      | 13.33 | Sliding WOB (klbs)        | 15.00 - 15.00     |
| Bottom Hole Depth (ft)  | 10645.00 | Hours Circulating   | 1.92  | Rotating SPM              | 258.00 - 258.00   |
| Total Distance (ft)     | 626.00   | Hours Sliding       | 2.58  | Sliding SPM               | 258.00 - 258.00   |
| Distance Rotated (ft)   | 594.00   | Hours Rotating      | 10.75 | Motor RPM                 | 60.00 - 70.00     |
| Distance Slid (ft)      | 32.00    |                     |       | Surface RPM               | 60.00 - 60.00     |
| Inclination In          | 2.99     |                     |       | Flow Rate (gpm)           | 747.00 - 750.00   |
| Inclination Out         | 2.51     |                     |       | On Bottom Pressure (psi)  | 3500.00 - 3750.00 |
| Azimuth In              | 131.68   | % Hours Rotating    | 81%   | Off Bottom Pressure (psi) | 2950.00 - 3100.00 |
| Azimuth Out             | 141.78   | % Hours Sliding     | 19%   |                           |                   |
| AVG Total ROP (ft/h)    | 46.95    | % Distance Sliding  | 5%    |                           |                   |
| AVG Rotating ROP (ft/h) | 55.26    | % Distance Rotating | 95%   |                           |                   |
| AVG Sliding ROP (ft/h)  | 12.39    |                     |       |                           |                   |

## Personnel

| Name                | Position            |
|---------------------|---------------------|
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

## BHA #3 - 9 7/8 Intermediate

Date In: Jun 14, 2021, 1:00 Date Out: Jun 17, 2021, 1:30

| Bit Details                |          | Motor Details     | Directional Comments                                                                          |
|----------------------------|----------|-------------------|-----------------------------------------------------------------------------------------------|
| OD (in)                    | 9.880    | Size (in)         | 8.0                                                                                           |
| Vendor                     | Ultrerra | Lobe/Stage        | 7/8, 5.9                                                                                      |
| S/N                        | 56248    | Bend Angle        | 1.75                                                                                          |
| Nozzles                    | 6x15's   | Speed (rev/gal)   | 0.15                                                                                          |
| Total Flow Area (in²)      | 1.035    | Wear Pad OD (in)  | 8.250                                                                                         |
| Drilling Hours for Day     | 0.00     | Bit Distances     |                                                                                               |
| Total Drilled for Day (ft) |          | Survey: 68.00 ft, |                                                                                               |
| Drilling Hours for BHA     | 39.83    | Gamma: 53.00 ft   |                                                                                               |
| Total Drilled for BHA (ft) | 3377.00  |                   |                                                                                               |
|                            |          |                   | <b>MWD Comments</b>                                                                           |
|                            |          |                   |                                                                                               |
|                            |          |                   | <b>POOH Reason</b>                                                                            |
|                            |          |                   | Penetration Rate: WHEN MOTOR REACHED RIG FLOOR BEARINGS HAD SIGNIFICANT SLACK WHEN COMPRESSED |

## Directional Items

| Description                                                                                                                                                       | Vendor        | SN#         | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: 9 7/8 ULTERRA XP616, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 3.50, Size (in): 9.88             | Ultrerra      | 56248       | 6 5/8" Reg Pin |                |         | 9.880   |              | 1.50     | 1.50           |
| <b>Mud Motor</b><br>Description: 8" 7/8 5.9 Stg. 1.75° FBH w/ 9 5/8" NBS, Size (in): 8.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.9 | Butch's       | BDT-800-006 | 6 5/8" Reg Box | 6 5/8" Reg Box |         | 8.000   |              | 37.18    | 38.68          |
| <b>Stabilizer</b><br>Description: 9 5/8" Nortrack Stabilizer                                                                                                      | JAO           | JOA97880    | 6 5/8" Reg Box | 6 5/8" Reg Pin | 2.875   | 7.938   |              | 5.56     | 44.24          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                                  | AIM           | 800613      | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.000   |              | 3.00     | 47.24          |
| <b>Drill Collar</b><br>Description: NMDC (Spacer), Material: Non-Magnetic, Type: Slick Drill                                                                      | AIM           | DY800009MJ  | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.21    | 77.45          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                                    | AIM           | DY80013MJ   | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.25    | 107.70         |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                                     | BLACK DIAMOND | BD14829     | EverDrlg54 Box | 6 5/8" Reg Pin | 2.750   | 8.000   |              | 3.17     | 110.87         |
| <b>HWDP</b><br>Description: 5.5" HWDP (13 Stands), Type: Slick                                                                                                    | BLACK DIAMOND |             | EverDrlg54 Box | EverDrlg54 Pin | 2.875   | 5.500   |              | 1213.05  | 1323.92        |
| <b>Crossover Sub</b><br>Description: 4.5 IF (B) x EverDrill 54 (P), Material: Steel                                                                               | BLACK DIAMOND | BD8071      | 4 1/2" IF Box  | EverDrlg54 Pin | 3.125   | 6.750   |              | 3.87     | 1327.79        |

|                                                                                                 |          |         |           |               |       |       |  |      |         |
|-------------------------------------------------------------------------------------------------|----------|---------|-----------|---------------|-------|-------|--|------|---------|
| <b>Crossover Sub</b><br>Description: <i>CET 43 (B) x 4.5 IF (P)</i> ,<br>Material: <i>Steel</i> | Platinum | PPR2786 | CET43 Box | 4 1/2" IF Pin | 2.500 | 6.500 |  | 2.83 | 1330.62 |
|-------------------------------------------------------------------------------------------------|----------|---------|-----------|---------------|-------|-------|--|------|---------|

**MWD Items**

No Items

**BHA #4 - 9 7/8 Intermediate**

Date In: Jun 17, 2021, 2:00 Date Out: Jun 18, 2021, 3:30

| Bit Details                |             | Motor Details                     |          | Directional Comments                                                                                                                       |
|----------------------------|-------------|-----------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------|
| OD (in)                    | 9.880       | Size (in)                         | 8.0      | 8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 9 5/8" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 0 Runs |
| Vendor                     | Halliburton | Lobe/Stage                        | 7/8, 5.9 |                                                                                                                                            |
| S/N                        | 13478553    | Bend Angle                        | 1.75     |                                                                                                                                            |
| Nozzles                    | 9x12's      | Speed (rev/gal)                   | 0.15     | MWD Comments                                                                                                                               |
| Total Flow Area (in²)      | 0.994       | Wear Pad OD (in)                  | 8.250    |                                                                                                                                            |
| Drilling Hours for Day     | 13.33       | Bit Distances                     |          |                                                                                                                                            |
| Total Drilled for Day (ft) | 626.00      | Survey: 68.00 ft, Gamma: 53.00 ft |          |                                                                                                                                            |
| Drilling Hours for BHA     | 13.33       |                                   |          |                                                                                                                                            |
| Total Drilled for BHA (ft) | 626.00      |                                   |          |                                                                                                                                            |
|                            |             |                                   |          | POOH Reason                                                                                                                                |
|                            |             |                                   |          | Total Depth/Casing Point: WHEN MOTOR REACHED RIG FLOOR<br>LITTLE SLACK IN BEARINGS WITH WEAR TO KP                                         |

**Directional Items**

| Description                                                                                                                                                                                                            | Vendor        | SN#         | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: <i>9 7/8 gt65dmheos</i> ,<br>Type: <i>PDC (Polycrystalline Diamond Compacts)</i> , Gauge Length (in):<br><i>3.50</i> , Size (in): <i>9.88</i>                                | Halliburton   | 13478553    | 6 5/8" Reg Pin |                |         | 9.880   |              | 1.50     | 1.50           |
| <b>Mud Motor</b><br>Description: <i>8" 7/8 5.9 Stg. 1.75° FBH w/ 9 5/8" NBS</i> , Size (in): <i>8.00</i> ,<br>Bend Angle (°): <i>1.75</i> , Rotor Lobe: <i>7</i> ,<br>Stator Lobe: <i>8</i> , Stator Stage: <i>5.9</i> | Butch's       | BDT-800-004 | 6 5/8" Reg Box | 6 5/8" Reg Box |         | 8.000   |              | 37.54    | 39.04          |
| <b>Stabilizer</b><br>Description: <i>9 5/8" Nortrack Stabilizer</i>                                                                                                                                                    | JAO           | JOA97880    | 6 5/8" Reg Box | 6 5/8" Reg Pin | 2.875   | 7.938   |              | 5.56     | 44.60          |
| <b>UBHO Sub</b><br>Description: <i>UBHO Sub</i> , Material: <i>Non-Magnetic</i>                                                                                                                                        | AIM           | 800613      | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.000   |              | 3.00     | 47.60          |
| <b>Drill Collar</b><br>Description: <i>NMDC (Spacer)</i> ,<br>Material: <i>Non-Magnetic</i> , Type: <i>Slick Drill</i>                                                                                                 | AIM           | DY800009MJ  | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.21    | 77.81          |
| <b>Drill Collar</b><br>Description: <i>NMDC (MWD Tool)</i> ,<br>Material: <i>Non-Magnetic</i> , Type: <i>Slick Drill</i>                                                                                               | AIM           | DY80013MJ   | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.25    | 108.06         |
| <b>Crossover Sub</b><br>Description: <i>X-O SUB</i> , Material: <i>Steel</i>                                                                                                                                           | BLACK DIAMOND | BD14829     | EverDrlg54 Box | 6 5/8" Reg Pin | 2.750   | 8.000   |              | 3.17     | 111.23         |
| <b>HWDP</b><br>Description: <i>5.5" HWDP (13 Stands)</i> , Type: <i>Slick</i>                                                                                                                                          | BLACK DIAMOND |             | EverDrlg54 Box | EverDrlg54 Pin | 2.875   | 5.500   |              | 1213.05  | 1324.28        |
| <b>Crossover Sub</b><br>Description: <i>4.5 IF (B) x EverDrill 54 (P)</i> , Material: <i>Steel</i>                                                                                                                     | BLACK DIAMOND | BD8071      | 4 1/2" IF Box  | EverDrlg54 Pin | 3.125   | 6.750   |              | 3.87     | 1328.15        |
| <b>Crossover Sub</b><br>Description: <i>CET 43 (B) x 4.5 IF (P)</i> ,<br>Material: <i>Steel</i>                                                                                                                        | Platinum      | PPR2786     | CET43 Box      | 4 1/2" IF Pin  | 2.500   | 6.500   |              | 2.83     | 1330.98        |

**MWD Items**

No Items

**Directional Activities**

| Activity Type | Code | Start Date | Start Time | End Time | End Date | Start (ft) | End (ft) | Comments/Details                                                                                                                                                                                                                                     |
|---------------|------|------------|------------|----------|----------|------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pooh          | 7    | 06-16      | 22:15      | 01:30    | 06-17    |            |          | POOH for ROP                                                                                                                                                                                                                                         |
| Lay Down BHA  | 65   | 06-17      | 01:30      | 02:00    | 06-17    |            |          | L/D MOTOR                                                                                                                                                                                                                                            |
| Pick Up BHA   | 64   | 06-17      | 02:00      | 02:30    | 06-17    |            |          | P/U MOTOR                                                                                                                                                                                                                                            |
| TIH           | 8    | 06-17      | 02:30      | 06:55    | 06-17    |            |          | TIH W/ BHA #4                                                                                                                                                                                                                                        |
| Other         | 16   | 06-17      | 06:55      | 07:15    | 06-17    |            |          | Fill pipe & wash to bottom                                                                                                                                                                                                                           |
| Survey        | 46   | 06-17      | 07:15      | 07:20    | 06-17    | 10019.00   | 10019.00 | Inclination (°): <i>2.990</i> , Azimuth (°): <i>131.680</i> , TVD (ft): <i>9938.44</i> , Dogleg (°/100 ft): <i>0.47</i> , Sensor Depth (ft): <i>9951.00</i> , Bit To Sensor (ft): <i>68.00</i>                                                       |
| Rotary Drill  | 1    | 06-17      | 07:20      | 07:35    | 06-17    | 10019.00   | 10029.00 | Pressure On (psi): <i>3750.00</i> , Pressure Off (psi): <i>2950.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>19000.00</i> , Flow Rate (gpm): <i>747.00</i> , Strokes Per Minute: <i>258.00</i> |
| Slide Drill   | 2    | 06-17      | 07:35      | 09:15    | 06-17    | 10029.00   | 10053.00 | Pressure On (psi): <i>3500.00</i> , Pressure Off (psi): <i>3100.00</i> , Weight On Bit (klbs): <i>15.00</i> , Flow Rate (gpm): <i>750.00</i> , Strokes Per Minute: <i>258</i> , Toolface: <i>115</i> , Toolface Type: <i>magnetic</i>                |
| Rotary Drill  | 1    | 06-17      | 09:15      | 09:50    | 06-17    | 10053.00   | 10114.00 | Pressure On (psi): <i>3750.00</i> , Pressure Off (psi): <i>2950.00</i> , Weight On Bit (klbs): <i>35.00</i> , Surface RPM: <i>60</i> , Surface Torque (ft lbf): <i>19000.00</i> , Flow Rate (gpm): <i>747.00</i> , Strokes Per Minute: <i>258.00</i> |

|              |    |       |       |       |       |          |          |                                                                                                                                                                                               |
|--------------|----|-------|-------|-------|-------|----------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Survey       | 46 | 06-17 | 09:50 | 09:55 | 06-17 | 10114.00 | 10114.00 | Inclination (°): 3.560, Azimuth (°): 132.470, TVD (ft): 10033.28, Dogleg (°/100 ft): 0.60, Sensor Depth (ft): 10046.00, Bit To Sensor (ft): 68.00                                             |
| Rotary Drill | 1  | 06-17 | 09:55 | 11:00 | 06-17 | 10114.00 | 10209.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-17 | 11:00 | 11:05 | 06-17 | 10209.00 | 10209.00 | Inclination (°): 3.780, Azimuth (°): 132.200, TVD (ft): 10128.09, Dogleg (°/100 ft): 0.23, Sensor Depth (ft): 10141.00, Bit To Sensor (ft): 68.00                                             |
| Rotary Drill | 1  | 06-17 | 11:05 | 12:45 | 06-17 | 10209.00 | 10304.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-17 | 12:45 | 12:50 | 06-17 | 10304.00 | 10304.00 | Inclination (°): 3.520, Azimuth (°): 135.280, TVD (ft): 10222.89, Dogleg (°/100 ft): 0.34, Sensor Depth (ft): 10236.00, Bit To Sensor (ft): 68.00                                             |
| Rotary Drill | 1  | 06-17 | 12:50 | 13:05 | 06-17 | 10304.00 | 10314.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Slide Drill  | 2  | 06-17 | 13:05 | 14:00 | 06-17 | 10314.00 | 10322.00 | Pressure On (psi): 3500.00, Pressure Off (psi): 3100.00, Weight On Bit (klbs): 15.00, Flow Rate (gpm): 750.00, Strokes Per Minute: 258, Toolface: 90, Toolface Type: magnetic                 |
| Rotary Drill | 1  | 06-17 | 14:00 | 15:35 | 06-17 | 10322.00 | 10397.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-17 | 15:35 | 15:40 | 06-17 | 10397.00 | 10397.00 | Inclination (°): 3.250, Azimuth (°): 131.590, TVD (ft): 10315.73, Dogleg (°/100 ft): 0.37, Sensor Depth (ft): 10329.00, Bit To Sensor (ft): 68.00                                             |
| Rotary Drill | 1  | 06-17 | 15:40 | 17:50 | 06-17 | 10397.00 | 10492.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-17 | 17:50 | 17:55 | 06-17 | 10492.00 | 10492.00 | Inclination (°): 2.810, Azimuth (°): 134.660, TVD (ft): 10410.60, Dogleg (°/100 ft): 0.49, Sensor Depth (ft): 10424.00, Bit To Sensor (ft): 68.00                                             |
| Rotary Drill | 1  | 06-17 | 17:55 | 19:50 | 06-17 | 10492.00 | 10587.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-17 | 19:50 | 19:55 | 06-17 | 10587.00 | 10587.00 | Inclination (°): 2.550, Azimuth (°): 139.940, TVD (ft): 10505.49, Dogleg (°/100 ft): 0.38, Sensor Depth (ft): 10519.00, Bit To Sensor (ft): 68.00                                             |
| Rotary Drill | 1  | 06-17 | 19:55 | 21:10 | 06-17 | 10587.00 | 10645.00 | Pressure On (psi): 3750.00, Pressure Off (psi): 2950.00, Weight On Bit (klbs): 35.00, Surface RPM: 60, Surface Torque (ft lbf): 19000.00, Flow Rate (gpm): 747.00, Strokes Per Minute: 258.00 |
| Survey       | 46 | 06-17 | 21:10 | 21:15 | 06-17 | 10645.00 | 10645.00 | Inclination (°): 2.510, Azimuth (°): 141.780, TVD (ft): 10563.44, Dogleg (°/100 ft): 0.16, Sensor Depth (ft): 10577.00, Bit To Sensor (ft): 68.00                                             |
| Circulating  | 3  | 06-17 | 21:15 | 23:10 | 06-17 |          |          | CIR BTMS UP                                                                                                                                                                                   |
| Pooh         | 7  | 06-17 | 23:10 | 03:30 | 06-18 |          |          | POOH                                                                                                                                                                                          |

**MWD Activities**

No Activities



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

Friday, Jun 18 00:00 - 23:59 (Day 10 of 24)

Billing: \$5,800.00 (\$150,591.57 total)

| Drilling Summary               |      |                            | Drilling Parameters |                                  |
|--------------------------------|------|----------------------------|---------------------|----------------------------------|
| <b>Start Depth (ft)</b>        |      | <b>Downhole Hours</b>      | 3.50                | <b>Rotating WOB (klbs)</b>       |
| <b>Bit Depth (ft)</b>          |      | <b>Drilling Hours</b>      | 0.00                | <b>Sliding WOB (klbs)</b>        |
| <b>Bottom Hole Depth (ft)</b>  |      | <b>Hours Circulating</b>   | 0.00                | <b>Rotating SPM</b>              |
| <b>Total Distance (ft)</b>     | 0.00 | <b>Hours Sliding</b>       | 0.00                | <b>Sliding SPM</b>               |
| <b>Distance Rotated (ft)</b>   | 0.00 | <b>Hours Rotating</b>      | 0.00                | <b>Motor RPM</b>                 |
| <b>Distance Slid (ft)</b>      | 0.00 |                            |                     | 60.00 - 70.00                    |
| <b>Inclination In</b>          |      |                            |                     | <b>Surface RPM</b>               |
| <b>Inclination Out</b>         |      |                            |                     | <b>Flow Rate (gpm)</b>           |
| <b>Azimuth In</b>              |      | <b>% Hours Rotating</b>    |                     | <b>On Bottom Pressure (psi)</b>  |
| <b>Azimuth Out</b>             |      | <b>% Hours Sliding</b>     |                     | <b>Off Bottom Pressure (psi)</b> |
| <b>AVG Total ROP (ft/h)</b>    | 0.00 | <b>% Distance Sliding</b>  |                     |                                  |
| <b>AVG Rotating ROP (ft/h)</b> | 0.00 | <b>% Distance Rotating</b> |                     |                                  |
| <b>AVG Sliding ROP (ft/h)</b>  | 0.00 |                            |                     |                                  |

**Personnel**

| Name                | Position            |
|---------------------|---------------------|
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

**BHA #4 - 9 7/8 Intermediate**

Date In: Jun 17, 2021, 2:00 Date Out: Jun 18, 2021, 3:30

| Bit Details                       |             | Motor Details                                   |          | Directional Comments                                                                                                                       |
|-----------------------------------|-------------|-------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OD (in)</b>                    | 9.880       | <b>Size (in)</b>                                | 8.0      | 8" Motor: 1.75° FBH 7/8 5.9 Stg Mtr w/ 9 5/8" Stab, Flow Range: 400-900 gpm, Max Diff: 1330 psi, Max Torque: 20940ft/lbs, Bit Runs: 0 Runs |
| <b>Vendor</b>                     | Halliburton | <b>Lobe/Stage</b>                               | 7/8, 5.9 |                                                                                                                                            |
| <b>S/N</b>                        | 13478553    | <b>Bend Angle</b>                               | 1.75     |                                                                                                                                            |
| <b>Nozzles</b>                    | 9x12's      | <b>Speed (rev/gal)</b>                          | 0.15     | <b>MWD Comments</b>                                                                                                                        |
| <b>Total Flow Area (in²)</b>      | 0.994       | <b>Wear Pad OD (in)</b>                         | 8.250    | <b>POOH Reason</b><br><b>Total Depth/Casing Point:</b> WHEN MOTOR REACHED RIG FLOOR<br>LITTLE SLACK IN BEARINGS WITH WEAR TO KP            |
| <b>Drilling Hours for Day</b>     | 0.00        | <b>Bit Distances</b>                            |          |                                                                                                                                            |
| <b>Total Drilled for Day (ft)</b> |             | <b>Survey:</b> 68.00 ft, <b>Gamma:</b> 53.00 ft |          |                                                                                                                                            |
| <b>Drilling Hours for BHA</b>     | 13.33       |                                                 |          |                                                                                                                                            |
| <b>Total Drilled for BHA (ft)</b> | 626.00      |                                                 |          |                                                                                                                                            |

**Directional Items**

| Description                                                                                                                                                       | Vendor        | SN#         | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: 9 7/8 gt65dmheos, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 3.50, Size (in): 9.88                | Halliburton   | 13478553    | 6 5/8" Reg Pin |                |         | 9.880   |              | 1.50     | 1.50           |
| <b>Mud Motor</b><br>Description: 8" 7/8 5.9 Stg. 1.75° FBH w/ 9 5/8" NBS, Size (in): 8.00, Bend Angle (°): 1.75, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.9 | Butch's       | BDT-800-004 | 6 5/8" Reg Box | 6 5/8" Reg Box |         | 8.000   |              | 37.54    | 39.04          |
| <b>Stabilizer</b><br>Description: 9 5/8" Nortrack Stabilizer                                                                                                      | JAO           | JOA97880    | 6 5/8" Reg Box | 6 5/8" Reg Pin | 2.875   | 7.938   |              | 5.56     | 44.60          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                                  | AIM           | 800613      | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.000   |              | 3.00     | 47.60          |
| <b>Drill Collar</b><br>Description: NMDC (Spacer), Material: Non-Magnetic, Type: Slick Drill                                                                      | AIM           | DY800009MJ  | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.21    | 77.81          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                                    | AIM           | DY80013MJ   | 6 5/8" Reg Box | 6 5/8" Reg Pin | 3.250   | 8.063   |              | 30.25    | 108.06         |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                                     | BLACK DIAMOND | BD14829     | EverDrlg54 Box | 6 5/8" Reg Pin | 2.750   | 8.000   |              | 3.17     | 111.23         |
| <b>HWDP</b><br>Description: 5.5" HWDP (13 Stands), Type: Slick                                                                                                    | BLACK DIAMOND |             | EverDrlg54 Box | EverDrlg54 Pin | 2.875   | 5.500   |              | 1213.05  | 1324.28        |
| <b>Crossover Sub</b><br>Description: 4.5 IF (B) x EverDrill 54 (P), Material: Steel                                                                               | BLACK DIAMOND | BD8071      | 4 1/2" IF Box  | EverDrlg54 Pin | 3.125   | 6.750   |              | 3.87     | 1328.15        |
| <b>Crossover Sub</b><br>Description: CET 43 (B) x 4.5 IF (P), Material: Steel                                                                                     | Platinum      | PPR2786     | CET43 Box      | 4 1/2" IF Pin  | 2.500   | 6.500   |              | 2.83     | 1330.98        |

MWD Items

No Items

Directional Activities

| Activity Type | Code | Start Date | Start Time | End Time | End Date | Start (ft) | End (ft) | Comments/Details   |
|---------------|------|------------|------------|----------|----------|------------|----------|--------------------|
| Pooh          | 7    | 06-17      | 23:10      | 03:30    | 06-18    |            |          | POOH               |
| Lay Down BHA  | 65   | 06-18      | 03:30      | 04:30    | 06-18    |            |          | L/D BHA            |
| Standby       | 15   | 06-18      | 04:30      | 00:00    | 06-19    |            |          | Standby CASING OPS |

MWD Activities

No Activities



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
| <b>Company Man</b>              |                                                     |                                                       |

Saturday, Jun 19 00:00 - 23:59 (Day 11 of 24)

Billing: \$15,750.00 (\$150,591.57 total)

**Drilling Summary****Drilling Parameters**

|                                |                            |      |                                  |
|--------------------------------|----------------------------|------|----------------------------------|
| <b>Start Depth (ft)</b>        | <b>Downhole Hours</b>      | 0.00 | <b>Rotating WOB (klbs)</b>       |
| <b>Bit Depth (ft)</b>          | <b>Drilling Hours</b>      | 0.00 | <b>Sliding WOB (klbs)</b>        |
| <b>Bottom Hole Depth (ft)</b>  | <b>Hours Circulating</b>   | 0.00 | <b>Rotating SPM</b>              |
| <b>Total Distance (ft)</b>     | <b>Hours Sliding</b>       | 0.00 | <b>Sliding SPM</b>               |
| <b>Distance Rotated (ft)</b>   | <b>Hours Rotating</b>      | 0.00 | <b>Motor RPM</b>                 |
| <b>Distance Slid (ft)</b>      |                            |      | <b>Surface RPM</b>               |
| <b>Inclination In</b>          |                            |      | <b>Flow Rate (gpm)</b>           |
| <b>Inclination Out</b>         |                            |      | <b>On Bottom Pressure (psi)</b>  |
| <b>Azimuth In</b>              | <b>% Hours Rotating</b>    |      | <b>Off Bottom Pressure (psi)</b> |
| <b>Azimuth Out</b>             | <b>% Hours Sliding</b>     |      |                                  |
| <b>AVG Total ROP (ft/h)</b>    | <b>% Distance Sliding</b>  |      |                                  |
| <b>AVG Rotating ROP (ft/h)</b> | <b>% Distance Rotating</b> |      |                                  |
| <b>AVG Sliding ROP (ft/h)</b>  |                            |      |                                  |

**Personnel**

| <b>Name</b>         | <b>Position</b>     |
|---------------------|---------------------|
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

**No BHAs****Directional Activities**

| <b>Activity Type</b> | <b>Code</b> | <b>Start Date</b> | <b>Start Time</b> | <b>End Time</b> | <b>End Date</b> | <b>Start (ft)</b> | <b>End (ft)</b> | <b>Comments/Details</b> |
|----------------------|-------------|-------------------|-------------------|-----------------|-----------------|-------------------|-----------------|-------------------------|
| Standby              | 15          | 06-18             | 04:30             | 00:00           | 06-19           |                   |                 | Standby CASING OPS      |
| Standby              | 15          | 06-19             | 00:00             | 23:15           | 06-19           |                   |                 | Standby                 |
| Pick Up BHA          | 64          | 06-19             | 23:15             | 00:30           | 06-20           |                   |                 | P/U BHA                 |

**MWD Activities**

No Activities



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
| <b>Company Man</b>              |                                                     |                                                       |

Sunday, Jun 20 00:00 - 23:59 (Day 12 of 24)

Billing: \$5,800.00 (\$150,591.57 total)

| Drilling Summary        |          |                     |       | Drilling Parameters       |                   |
|-------------------------|----------|---------------------|-------|---------------------------|-------------------|
| Start Depth (ft)        | 10645.00 | Downhole Hours      | 23.50 | Rotating WOB (klbs)       | 20.00 - 20.00     |
| Bit Depth (ft)          | 11122.00 | Drilling Hours      | 10.08 | Sliding WOB (klbs)        | 12.00 - 12.00     |
| Bottom Hole Depth (ft)  | 11122.00 | Hours Circulating   | 3.42  | Rotating SPM              | 78.00 - 78.00     |
| Total Distance (ft)     | 477.00   | Hours Sliding       | 2.50  | Sliding SPM               | 78.00 - 78.00     |
| Distance Rotated (ft)   | 433.00   | Hours Rotating      | 7.58  | Motor RPM                 | 185.00 - 202.00   |
| Distance Slid (ft)      | 44.00    |                     |       | Surface RPM               | 30.00 - 30.00     |
| Inclination In          | 2.46     |                     |       | Flow Rate (gpm)           | 225.00 - 225.00   |
| Inclination Out         | 3.52     |                     |       | On Bottom Pressure (psi)  | 2200.00 - 2550.00 |
| Azimuth In              | 151.28   | % Hours Rotating    | 75%   | Off Bottom Pressure (psi) | 1500.00 - 1500.00 |
| Azimuth Out             | 136.86   | % Hours Sliding     | 25%   |                           |                   |
| AVG Total ROP (ft/h)    | 49.38    | % Distance Sliding  | 9%    |                           |                   |
| AVG Rotating ROP (ft/h) | 58.13    | % Distance Rotating | 91%   |                           |                   |
| AVG Sliding ROP (ft/h)  | 17.60    |                     |       |                           |                   |

## Personnel

| Name                | Position            |
|---------------------|---------------------|
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

## BHA #5 - 6.75" INTERMEDIATE

Date In: Jun 20, 2021, 0:30 Date Out: Jun 21, 2021, 16:30

| Bit Details                        |               | Motor Details     | Directional Comments             |
|------------------------------------|---------------|-------------------|----------------------------------|
| OD (in)                            | 6.750         | Size (in)         | 5.0                              |
| Vendor                             | Ultrerra      | Lobe/Stage        | 6/7, 7.0                         |
| S/N                                | 35404         | Bend Angle        | 1.5                              |
| Nozzles                            | 3x14's 3x16's | Speed (rev/gal)   | 0.82                             |
| Total Flow Area (in <sup>2</sup> ) | 1.040         | Wear Pad OD (in)  | 5.270                            |
| Drilling Hours for Day             | 10.08         | Bit Distances     |                                  |
| Total Drilled for Day (ft)         | 477.00        | Survey: 64.00 ft, |                                  |
| Drilling Hours for BHA             | 21.25         | Gamma: 49.00 ft   |                                  |
| Total Drilled for BHA (ft)         | 1015.00       |                   |                                  |
|                                    |               |                   | <b>MWD Comments</b>              |
|                                    |               |                   | <b>POOH Reason</b>               |
|                                    |               |                   | Change Bottom Hole Assembly: N/A |

## Directional Items

| Description                                                                                                                                                     | Vendor   | SN#          | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: 6 3/4 CF613, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 2.50, Size (in): 6.75                   | Ultrerra | 35404        | 3 1/2" REG Pin |                |         | 6.750   |              | 1.00     | 1.00           |
| <b>Mud Motor</b><br>Description: 5" 6/7 5.9 Stg. 1.5° FBH w/ 6 1/2" NBS, Size (in): 5.00, Bend Angle (°): 1.5, Rotor Lobe: 6, Stator Lobe: 7, Stator Stage: 7.0 | Butch's  | LS-475-41    | 3 1/2" IF Box  | 3 1/2" REG Box |         | 5.000   |              | 26.57    | 27.57          |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                                   | GATOR    | LT5033444    | XT39 Box       | 3 1/2" IF Pin  | 2.625   | 4.938   |              | 3.33     | 30.90          |
| <b>Float Sub</b><br>Description: FLOAT SUB, Material: Steel                                                                                                     | GATOR    | 233054       | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.12     | 34.02          |
| <b>Stabilizer</b><br>Description: 6 1/2 SPIRAL STAB                                                                                                             | GATOR    | 65040        | XT39 Box       | XT39 Pin       | 2.250   | 5.188   |              | 5.13     | 39.15          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                                | GATOR    | GT503338     | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.61     | 42.76          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                                  | GATOR    | GT-51-30-544 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.78    | 73.54          |
| <b>Drill Collar</b><br>Description: NMDC, Material: Non-Magnetic, Type: Slick Drill                                                                             | GATOR    | GT-51-30-533 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.81    | 104.35         |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                                   | GATOR    | PPR6502      | CET43 Box      | XT39 Pin       | 2.500   | 5.000   |              | 2.90     | 107.25         |

|                                                            |     |  |           |           |       |       |  |         |         |
|------------------------------------------------------------|-----|--|-----------|-----------|-------|-------|--|---------|---------|
| <b>HWDP</b><br>Description: 13 STANDS HWDP,<br>Type: Slick | RIG |  | CET43 Box | CET43 Pin | 2.813 | 5.313 |  | 1190.34 | 1297.59 |
|------------------------------------------------------------|-----|--|-----------|-----------|-------|-------|--|---------|---------|

**MWD Items**

No Items

**Directional Activities**

| Activity Type   | Code | Start Date | Start Time | End Time | End Date | Start (ft) | End (ft) | Comments/Details                                                                                                                                                                            |
|-----------------|------|------------|------------|----------|----------|------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pick Up BHA     | 64   | 06-19      | 23:15      | 00:30    | 06-20    |            |          | P/U BHA                                                                                                                                                                                     |
| Standby         | 15   | 06-20      | 00:30      | 01:00    | 06-20    |            |          | Standby                                                                                                                                                                                     |
| P/U DP          | 29   | 06-20      | 01:00      | 03:30    | 06-20    |            |          | P/U HWDP                                                                                                                                                                                    |
| TIH             | 8    | 06-20      | 03:30      | 08:30    | 06-20    |            |          | TIH W/ BHA #5                                                                                                                                                                               |
| Circulating     | 3    | 06-20      | 08:30      | 09:40    | 06-20    |            |          | CIRC                                                                                                                                                                                        |
| Other           | 16   | 06-20      | 09:40      | 09:55    | 06-20    |            |          | TEST CASING                                                                                                                                                                                 |
| Circulating     | 3    | 06-20      | 09:55      | 11:00    | 06-20    |            |          | DISPLACE w/ OBM                                                                                                                                                                             |
| Drilling Cement | 17   | 06-20      | 11:00      | 12:10    | 06-20    | 10645.00   | 10645.00 | Drilling Cement and Float Equipment                                                                                                                                                         |
| Rotary Drill    | 1    | 06-20      | 12:10      | 14:05    | 06-20    | 10645.00   | 10744.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 30, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78.00 |
| Survey          | 46   | 06-20      | 14:05      | 14:10    | 06-20    | 10744.00   | 10744.00 | Inclination (°): 2.460, Azimuth (°): 151.280, TVD (ft): 10666.34, Dogleg (°/100 ft): 0.40, Sensor Depth (ft): 10680.00, Bit To Sensor (ft): 64.00                                           |
| Rotary Drill    | 1    | 06-20      | 14:10      | 14:30    | 06-20    | 10744.00   | 10754.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 30, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78.00 |
| Slide Drill     | 2    | 06-20      | 14:30      | 15:15    | 06-20    | 10754.00   | 10771.00 | Pressure On (psi): 2200.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 12.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78, Toolface: 90, Toolface Type: magnetic                |
| Rotary Drill    | 1    | 06-20      | 15:15      | 16:30    | 06-20    | 10771.00   | 10839.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 30, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78.00 |
| Survey          | 46   | 06-20      | 16:30      | 16:35    | 06-20    | 10839.00   | 10839.00 | Inclination (°): 2.510, Azimuth (°): 153.120, TVD (ft): 10761.25, Dogleg (°/100 ft): 0.10, Sensor Depth (ft): 10775.00, Bit To Sensor (ft): 64.00                                           |
| Rotary Drill    | 1    | 06-20      | 16:35      | 16:55    | 06-20    | 10839.00   | 10849.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 30, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78.00 |
| Slide Drill     | 2    | 06-20      | 16:55      | 18:40    | 06-20    | 10849.00   | 10876.00 | Pressure On (psi): 2200.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 12.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78, Toolface: 100, Toolface Type: magnetic               |
| Rotary Drill    | 1    | 06-20      | 18:40      | 19:30    | 06-20    | 10876.00   | 10932.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 30, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78.00 |
| Survey          | 46   | 06-20      | 19:30      | 19:40    | 06-20    | 10932.00   | 10932.00 | Inclination (°): 2.950, Azimuth (°): 143.630, TVD (ft): 10854.15, Dogleg (°/100 ft): 0.68, Sensor Depth (ft): 10868.00, Bit To Sensor (ft): 64.00                                           |
| Rotary Drill    | 1    | 06-20      | 19:40      | 21:10    | 06-20    | 10932.00   | 11027.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 30, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78.00 |
| Survey          | 46   | 06-20      | 21:10      | 21:15    | 06-20    | 11027.00   | 11027.00 | Inclination (°): 3.380, Azimuth (°): 136.070, TVD (ft): 10949.00, Dogleg (°/100 ft): 0.63, Sensor Depth (ft): 10963.00, Bit To Sensor (ft): 64.00                                           |
| Rotary Drill    | 1    | 06-20      | 21:15      | 22:40    | 06-20    | 11027.00   | 11122.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 30, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78.00 |
| Survey          | 46   | 06-20      | 22:40      | 22:45    | 06-20    | 11122.00   | 11122.00 | Inclination (°): 3.520, Azimuth (°): 136.860, TVD (ft): 11043.83, Dogleg (°/100 ft): 0.16, Sensor Depth (ft): 11058.00, Bit To Sensor (ft): 64.00                                           |
| Rotary Drill    | 1    | 06-20      | 22:45      | 00:15    | 06-21    | 11122.00   | 11217.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 30, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78.00 |

**MWD Activities**

No Activities



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

Monday, Jun 21 00:00 - 23:59 (Day 13 of 24)

Billing: \$14,600.00 (\$150,591.57 total)

| Drilling Summary        |          |                     |       | Drilling Parameters       |                   |
|-------------------------|----------|---------------------|-------|---------------------------|-------------------|
| Start Depth (ft)        | 11122.00 | Downhole Hours      | 22.75 | Rotating WOB (klbs)       | 20.00 - 20.00     |
| Bit Depth (ft)          | 11660.00 | Drilling Hours      | 11.17 | Sliding WOB (klbs)        |                   |
| Bottom Hole Depth (ft)  | 11660.00 | Hours Circulating   | 1.33  | Rotating SPM              | 78.00 - 78.00     |
| Total Distance (ft)     | 538.00   | Hours Sliding       | 0.00  | Sliding SPM               |                   |
| Distance Rotated (ft)   | 538.00   | Hours Rotating      | 11.17 | Motor RPM                 | 20.00 - 202.00    |
| Distance Slid (ft)      | 0.00     |                     |       | Surface RPM               | 30.00 - 30.00     |
| Inclination In          | 2.20     |                     |       | Flow Rate (gpm)           | 225.00 - 225.00   |
| Inclination Out         | 2.90     |                     |       | On Bottom Pressure (psi)  | 2550.00 - 2550.00 |
| Azimuth In              | 129.74   | % Hours Rotating    | 100%  | Off Bottom Pressure (psi) | 1500.00 - 1500.00 |
| Azimuth Out             | 121.30   | % Hours Sliding     | 0%    |                           |                   |
| AVG Total ROP (ft/h)    | 47.07    | % Distance Sliding  | 0%    |                           |                   |
| AVG Rotating ROP (ft/h) | 48.18    | % Distance Rotating | 100%  |                           |                   |
| AVG Sliding ROP (ft/h)  | 28.50    |                     |       |                           |                   |

## Personnel

| Name                | Position            |
|---------------------|---------------------|
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

## BHA #5 - 6.75" INTERMEDIATE

Date In: Jun 20, 2021, 0:30 Date Out: Jun 21, 2021, 16:30

| Bit Details                        |               | Motor Details     | Directional Comments             |
|------------------------------------|---------------|-------------------|----------------------------------|
| OD (in)                            | 6.750         | Size (in)         | 5.0                              |
| Vendor                             | Ultrerra      | Lobe/Stage        | 6/7, 7.0                         |
| S/N                                | 35404         | Bend Angle        | 1.5                              |
| Nozzles                            | 3x14's 3x16's | Speed (rev/gal)   | 0.82                             |
| Total Flow Area (in <sup>2</sup> ) | 1.040         | Wear Pad OD (in)  | 5.270                            |
| Drilling Hours for Day             | 11.17         | Bit Distances     |                                  |
| Total Drilled for Day (ft)         | 538.00        | Survey: 64.00 ft, |                                  |
| Drilling Hours for BHA             | 21.25         | Gamma: 49.00 ft   |                                  |
| Total Drilled for BHA (ft)         | 1015.00       |                   |                                  |
|                                    |               |                   | <b>MWD Comments</b>              |
|                                    |               |                   | <b>POOH Reason</b>               |
|                                    |               |                   | Change Bottom Hole Assembly: N/A |

## Directional Items

| Description                                                                                                                                                     | Vendor   | SN#          | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: 6 3/4 CF613, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 2.50, Size (in): 6.75                   | Ultrerra | 35404        | 3 1/2" REG Pin |                |         | 6.750   |              | 1.00     | 1.00           |
| <b>Mud Motor</b><br>Description: 5" 6/7 5.9 Stg. 1.5° FBH w/ 6 1/2" NBS, Size (in): 5.00, Bend Angle (°): 1.5, Rotor Lobe: 6, Stator Lobe: 7, Stator Stage: 7.0 | Butch's  | LS-475-41    | 3 1/2" IF Box  | 3 1/2" REG Box |         | 5.000   |              | 26.57    | 27.57          |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                                   | GATOR    | LT5033444    | XT39 Box       | 3 1/2" IF Pin  | 2.625   | 4.938   |              | 3.33     | 30.90          |
| <b>Float Sub</b><br>Description: FLOAT SUB, Material: Steel                                                                                                     | GATOR    | 233054       | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.12     | 34.02          |
| <b>Stabilizer</b><br>Description: 6 1/2 SPIRAL STAB                                                                                                             | GATOR    | 65040        | XT39 Box       | XT39 Pin       | 2.250   | 5.188   |              | 5.13     | 39.15          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                                | GATOR    | GT503338     | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.61     | 42.76          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                                  | GATOR    | GT-51-30-544 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.78    | 73.54          |
| <b>Drill Collar</b><br>Description: NMDC, Material: Non-Magnetic, Type: Slick Drill                                                                             | GATOR    | GT-51-30-533 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.81    | 104.35         |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                                   | GATOR    | PPR6502      | CET43 Box      | XT39 Pin       | 2.500   | 5.000   |              | 2.90     | 107.25         |

|                                                            |     |  |           |           |       |       |  |         |         |
|------------------------------------------------------------|-----|--|-----------|-----------|-------|-------|--|---------|---------|
| <b>HWDP</b><br>Description: 13 STANDS HWDP,<br>Type: Slick | RIG |  | CET43 Box | CET43 Pin | 2.813 | 5.313 |  | 1190.34 | 1297.59 |
|------------------------------------------------------------|-----|--|-----------|-----------|-------|-------|--|---------|---------|

**MWD Items**

No Items

**BHA #6 - 6.75" CURVE**

Date In: Jun 21, 2021, 17:45 Date Out: Jun 22, 2021, 23:15

| Bit Details                |         | Motor Details                     |          | Directional Comments                                                                                   |  |
|----------------------------|---------|-----------------------------------|----------|--------------------------------------------------------------------------------------------------------|--|
| OD (in)                    | 6.750   | Size (in)                         | 5.0      | Flow Range: 150-300 gpm, Max Diff: 1180 psi, Max Torque: 4670 ft/lbs, Bit Runs: 1                      |  |
| Vendor                     | Ulterra | Lobe/Stage                        | 7/8, 5.0 |                                                                                                        |  |
| S/N                        | 56011   | Bend Angle                        | 2.12     |                                                                                                        |  |
| Nozzles                    | 6x15's  | Speed (rev/gal)                   | 0.64     | MWD Comments                                                                                           |  |
| Total Flow Area (in²)      | 1.035   | Wear Pad OD (in)                  | 5.320    | POOH Reason<br>Change Bottom Hole Assembly: WHEN MOTOR REACHED RIG FLOOR EVERYTHING LOOKED AS EXPECTED |  |
| Drilling Hours for Day     | 0.00    | Bit Distances                     |          |                                                                                                        |  |
| Total Drilled for Day (ft) |         | Survey: 54.00 ft, Gamma: 39.00 ft |          |                                                                                                        |  |
| Drilling Hours for BHA     | 14.25   |                                   |          |                                                                                                        |  |
| Total Drilled for BHA (ft) | 900.00  |                                   |          |                                                                                                        |  |

**Directional Items**

| Description                                                                                                                                      | Vendor   | SN#            | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: CF611, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 2.50, Size (in): 6.75          | Ulterra  | 56011          | 3 1/2" REG Pin |                |         | 6.750   |              | 1.00     | 1.00           |
| <b>Mud Motor</b><br>Description: 5" 7/8 5.0 FXD @ 2.12°, Size (in): 5.00, Bend Angle (°): 2.12, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.0 | Aim      | 500-40-002-AIM | XT39 Box       | 3 1/2" REG Box |         | 5.000   |              | 25.69    | 26.69          |
| <b>Float Sub</b><br>Description: FLOATSUB, Material: Steel                                                                                       | GATOR    | 233054         | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.12     | 29.81          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                 | GATOR    | GT503338       | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.61     | 33.42          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                   | GATOR    | GT-51-30-544   | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.78    | 64.20          |
| <b>Drill Collar</b><br>Description: NMDC, Material: Non-Magnetic, Type: Slick Drill                                                              | GATOR    | GT-51-30-533   | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.81    | 95.01          |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                    | Platinum | PPR6502        | CET43 Box      | XT39 Pin       | 2.500   | 5.000   |              | 2.90     | 97.91          |
| <b>Drill Pipe</b><br>Description: 12 STANDS 4.5" DP, Type: Slick                                                                                 | Platinum |                | CET43 Box      | CET43 Pin      | 2.750   | 4.500   |              | 1139.34  | 1237.25        |
| <b>HWDP</b><br>Description: 13 STANDS HWDP, Type: Slick                                                                                          | Platinum |                | CET43 Box      | CET43 Pin      | 2.813   | 5.313   |              | 1190.34  | 2427.59        |

**MWD Items**

No Items

**Directional Activities**

| Activity Type | Code | Start Date | Start Time | End Time | End Date | Start (ft) | End (ft) | Comments/Details                                                                                                                                                                            |
|---------------|------|------------|------------|----------|----------|------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rotary Drill  | 1    | 06-20      | 22:45      | 00:15    | 06-21    | 11122.00   | 11217.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 30, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78.00 |
| Survey        | 46   | 06-21      | 00:15      | 00:20    | 06-21    | 11217.00   | 11217.00 | Inclination (°): 2.200, Azimuth (°): 129.740, TVD (ft): 11138.71, Dogleg (°/100 ft): 1.44, Sensor Depth (ft): 11153.00, Bit To Sensor (ft): 64.00                                           |
| Rotary Drill  | 1    | 06-21      | 00:20      | 02:15    | 06-21    | 11217.00   | 11311.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 30, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78.00 |
| Survey        | 46   | 06-21      | 02:15      | 02:20    | 06-21    | 11311.00   | 11311.00 | Inclination (°): 1.490, Azimuth (°): 113.830, TVD (ft): 11232.66, Dogleg (°/100 ft): 0.92, Sensor Depth (ft): 11247.00, Bit To Sensor (ft): 64.00                                           |
| Rotary Drill  | 1    | 06-21      | 02:20      | 04:00    | 06-21    | 11311.00   | 11406.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 30, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78.00 |
| Survey        | 46   | 06-21      | 04:00      | 04:05    | 06-21    | 11406.00   | 11406.00 | Inclination (°): 2.420, Azimuth (°): 110.490, TVD (ft): 11327.60, Dogleg (°/100 ft): 0.99, Sensor Depth (ft): 11342.00, Bit To Sensor (ft): 64.00                                           |
| Rotary Drill  | 1    | 06-21      | 04:05      | 05:45    | 06-21    | 11406.00   | 11500.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 30, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78.00 |

|              |    |       |       |       |       |          |          |                                                                                                                                                                                             |
|--------------|----|-------|-------|-------|-------|----------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Survey       | 46 | 06-21 | 05:45 | 05:50 | 06-21 | 11500.00 | 11500.00 | Inclination (°): 2.900, Azimuth (°): 110.140, TVD (ft): 11421.50, Dogleg (°/100 ft): 0.51, Sensor Depth (ft): 11436.00, Bit To Sensor (ft): 64.00                                           |
| Rotary Drill | 1  | 06-21 | 05:50 | 08:15 | 06-21 | 11500.00 | 11595.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 30, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78.00 |
| Survey       | 46 | 06-21 | 08:15 | 08:20 | 06-21 | 11595.00 | 11595.00 | Inclination (°): 2.810, Azimuth (°): 117.960, TVD (ft): 11516.39, Dogleg (°/100 ft): 0.42, Sensor Depth (ft): 11531.00, Bit To Sensor (ft): 64.00                                           |
| Rotary Drill | 1  | 06-21 | 08:20 | 10:20 | 06-21 | 11595.00 | 11660.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 30, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78.00 |
| Survey       | 46 | 06-21 | 10:20 | 10:25 | 06-21 | 11660.00 | 11660.00 | Inclination (°): 2.900, Azimuth (°): 121.300, TVD (ft): 11581.31, Dogleg (°/100 ft): 0.29, Sensor Depth (ft): 11596.00, Bit To Sensor (ft): 64.00                                           |
| Circulating  | 3  | 06-21 | 10:25 | 11:45 | 06-21 |          |          | CIRCULATING                                                                                                                                                                                 |
| Pooh         | 7  | 06-21 | 11:45 | 16:30 | 06-21 |          |          | POOH for curve assembly                                                                                                                                                                     |
| Change BHA   | 6  | 06-21 | 16:30 | 17:45 | 06-21 |          |          | P/U BHA #6                                                                                                                                                                                  |
| Other        | 16 | 06-21 | 17:45 | 18:00 | 06-21 |          |          | M/U Stand to test.                                                                                                                                                                          |
| TIH          | 8  | 06-21 | 18:00 | 21:50 | 06-21 |          |          | TIH W/ BHA #6                                                                                                                                                                               |
| Other        | 16 | 06-21 | 21:50 | 22:50 | 06-21 |          |          | CUT AND SLIP DRILL LINE                                                                                                                                                                     |
| TIH          | 8  | 06-21 | 22:50 | 23:50 | 06-21 |          |          | TIH W/ BHA #6                                                                                                                                                                               |
| Slide Drill  | 2  | 06-21 | 23:50 | 00:30 | 06-22 | 11660.00 | 11679.00 | Pressure On (psi): 2200.00, Pressure Off (psi): 1900.00, Weight On Bit (klbs): 15.00, Flow Rate (gpm): 250.00, Strokes Per Minute: 86, Toolface: 350, Toolface Type: magnetic               |

**MWD Activities**

No Activities



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

Tuesday, Jun 22 00:00 - 23:59 (Day 14 of 24)

Billing: \$5,300.00 (\$150,591.57 total)

| Drilling Summary        |          |                     |       | Drilling Parameters       |                   |
|-------------------------|----------|---------------------|-------|---------------------------|-------------------|
| Start Depth (ft)        | 11660.00 | Downhole Hours      | 23.25 | Rotating WOB (klbs)       | 20.00 - 20.00     |
| Bit Depth (ft)          | 12560.00 | Drilling Hours      | 14.25 | Sliding WOB (klbs)        | 15.00 - 15.00     |
| Bottom Hole Depth (ft)  | 12560.00 | Hours Circulating   | 1.42  | Rotating SPM              | 78.00 - 103.00    |
| Total Distance (ft)     | 900.00   | Hours Sliding       | 9.17  | Sliding SPM               | 86.00 - 103.00    |
| Distance Rotated (ft)   | 388.00   | Hours Rotating      | 5.08  | Motor RPM                 | 20.00 - 20.00     |
| Distance Slid (ft)      | 512.00   |                     |       | Surface RPM               | 20.00 - 20.00     |
| Inclination In          | 2.81     |                     |       | Flow Rate (gpm)           | 225.00 - 300.00   |
| Inclination Out         | 89.49    |                     |       | On Bottom Pressure (psi)  | 2200.00 - 3600.00 |
| Azimuth In              | 130.88   | % Hours Rotating    | 36%   | Off Bottom Pressure (psi) | 1500.00 - 2700.00 |
| Azimuth Out             | 359.84   | % Hours Sliding     | 64%   |                           |                   |
| AVG Total ROP (ft/h)    | 63.16    | % Distance Sliding  | 57%   |                           |                   |
| AVG Rotating ROP (ft/h) | 76.33    | % Distance Rotating | 43%   |                           |                   |
| AVG Sliding ROP (ft/h)  | 55.85    |                     |       |                           |                   |

**Personnel**

| Name                | Position            |
|---------------------|---------------------|
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

**BHA #6 - 6.75" CURVE**

Date In: Jun 21, 2021, 17:45 Date Out: Jun 22, 2021, 23:15

| Bit Details                                                                             |          | Motor Details                     |          | Directional Comments                                                              |
|-----------------------------------------------------------------------------------------|----------|-----------------------------------|----------|-----------------------------------------------------------------------------------|
| OD (in)                                                                                 | 6.750    | Size (in)                         | 5.0      | Flow Range: 150-300 gpm, Max Diff: 1180 psi, Max Torque: 4670 ft/lbs, Bit Runs: 1 |
| Vendor                                                                                  | Ultrerra | Lobe/Stage                        | 7/8, 5.0 |                                                                                   |
| S/N                                                                                     | 56011    | Bend Angle                        | 2.12     |                                                                                   |
| Nozzles                                                                                 | 6x15's   | Speed (rev/gal)                   | 0.64     | MWD Comments                                                                      |
| Total Flow Area (in²)                                                                   | 1.035    | Wear Pad OD (in)                  | 5.320    |                                                                                   |
| Drilling Hours for Day                                                                  | 14.25    | Bit Distances                     |          |                                                                                   |
| Total Drilled for Day (ft)                                                              | 900.00   | Survey: 54.00 ft, Gamma: 39.00 ft |          |                                                                                   |
| Drilling Hours for BHA                                                                  | 14.25    |                                   |          |                                                                                   |
| Total Drilled for BHA (ft)                                                              | 900.00   | POOH Reason                       |          |                                                                                   |
| Change Bottom Hole Assembly: WHEN MOTOR REACHED RIG FLOOR EVERYTHING LOOKED AS EXPECTED |          |                                   |          |                                                                                   |

**Directional Items**

| Description                                                                                                                                      | Vendor   | SN#            | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: CF611, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 2.50, Size (in): 6.75          | Ultrerra | 56011          | 3 1/2" REG Pin |                |         | 6.750   |              | 1.00     | 1.00           |
| <b>Mud Motor</b><br>Description: 5" 7/8 5.0 FXD @ 2.12°, Size (in): 5.00, Bend Angle (°): 2.12, Rotor Lobe: 7, Stator Lobe: 8, Stator Stage: 5.0 | Aim      | 500-40-002-AIM | XT39 Box       | 3 1/2" REG Box |         | 5.000   |              | 25.69    | 26.69          |
| <b>Float Sub</b><br>Description: FLOATSUB, Material: Steel                                                                                       | GATOR    | 233054         | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.12     | 29.81          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                 | GATOR    | GT503338       | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.61     | 33.42          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                   | GATOR    | GT-51-30-544   | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.78    | 64.20          |
| <b>Drill Collar</b><br>Description: NMDC, Material: Non-Magnetic, Type: Slick Drill                                                              | GATOR    | GT-51-30-533   | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.81    | 95.01          |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                    | Platinum | PPR6502        | CET43 Box      | XT39 Pin       | 2.500   | 5.000   |              | 2.90     | 97.91          |
| <b>Drill Pipe</b><br>Description: 12 STANDS 4.5" DP, Type: Slick                                                                                 | Platinum |                | CET43 Box      | CET43 Pin      | 2.750   | 4.500   |              | 1139.34  | 1237.25        |
| <b>HWDP</b><br>Description: 13 STANDS HWDP, Type: Slick                                                                                          | Platinum |                | CET43 Box      | CET43 Pin      | 2.813   | 5.313   |              | 1190.34  | 2427.59        |

**MWD Items**

No Items

**Directional Activities**

| Activity Type | Code | Start Date | Start Time | End Time | End Date | Start (ft) | End (ft) | Comments/Details                                                                                                                                                                             |
|---------------|------|------------|------------|----------|----------|------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Slide Drill   | 2    | 06-21      | 23:50      | 00:30    | 06-22    | 11660.00   | 11679.00 | Pressure On (psi): 2200.00, Pressure Off (psi): 1900.00, Weight On Bit (klbs): 15.00, Flow Rate (gpm): 250.00, Strokes Per Minute: 86, Toolface: 350, Toolface Type: <i>magnetic</i>         |
| Survey        | 46   | 06-22      | 00:30      | 00:35    | 06-22    | 11679.00   | 11679.00 | Inclination (°): 2.810, Azimuth (°): 130.880, TVD (ft): 11610.27, Dogleg (°/100 ft): 1.67, Sensor Depth (ft): 11625.00, Bit To Sensor (ft): 54.00                                            |
| Slide Drill   | 2    | 06-22      | 00:35      | 02:50    | 06-22    | 11679.00   | 11773.00 | Pressure On (psi): 2200.00, Pressure Off (psi): 1900.00, Weight On Bit (klbs): 15.00, Flow Rate (gpm): 250.00, Strokes Per Minute: 86, Toolface: 350, Toolface Type: <i>magnetic</i>         |
| Survey        | 46   | 06-22      | 02:50      | 03:05    | 06-22    | 11773.00   | 11773.00 | Inclination (°): 8.920, Azimuth (°): 0.280, TVD (ft): 11703.93, Dogleg (°/100 ft): 11.66, Sensor Depth (ft): 11719.00, Bit To Sensor (ft): 54.00                                             |
| Rotary Drill  | 1    | 06-22      | 03:05      | 03:20    | 06-22    | 11773.00   | 11783.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 20, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78.00  |
| Slide Drill   | 2    | 06-22      | 03:20      | 04:00    | 06-22    | 11783.00   | 11814.00 | Pressure On (psi): 2200.00, Pressure Off (psi): 1900.00, Weight On Bit (klbs): 15.00, Flow Rate (gpm): 250.00, Strokes Per Minute: 86, Toolface: 0, Toolface Type: <i>gravity</i>            |
| Rotary Drill  | 1    | 06-22      | 04:00      | 04:20    | 06-22    | 11814.00   | 11829.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 20, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78.00  |
| Slide Drill   | 2    | 06-22      | 04:20      | 05:10    | 06-22    | 11829.00   | 11868.00 | Pressure On (psi): 2200.00, Pressure Off (psi): 1900.00, Weight On Bit (klbs): 15.00, Flow Rate (gpm): 250.00, Strokes Per Minute: 86, Toolface: 5, Toolface Type: <i>gravity</i>            |
| Survey        | 46   | 06-22      | 05:10      | 05:15    | 06-22    | 11868.00   | 11868.00 | Inclination (°): 23.960, Azimuth (°): 2.480, TVD (ft): 11794.79, Dogleg (°/100 ft): 15.84, Sensor Depth (ft): 11814.00, Bit To Sensor (ft): 54.00                                            |
| Rotary Drill  | 1    | 06-22      | 05:15      | 05:45    | 06-22    | 11868.00   | 11888.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 20, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78.00  |
| Slide Drill   | 2    | 06-22      | 05:45      | 06:45    | 06-22    | 11888.00   | 11962.00 | Pressure On (psi): 2200.00, Pressure Off (psi): 1900.00, Weight On Bit (klbs): 15.00, Flow Rate (gpm): 250.00, Strokes Per Minute: 86, Toolface: 0, Toolface Type: <i>gravity</i>            |
| Survey        | 46   | 06-22      | 06:45      | 06:55    | 06-22    | 11962.00   | 11962.00 | Inclination (°): 35.210, Azimuth (°): 1.250, TVD (ft): 11876.40, Dogleg (°/100 ft): 11.98, Sensor Depth (ft): 11908.00, Bit To Sensor (ft): 54.00                                            |
| Rotary Drill  | 1    | 06-22      | 06:55      | 07:20    | 06-22    | 11962.00   | 12002.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 20, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78.00  |
| Slide Drill   | 2    | 06-22      | 07:20      | 08:05    | 06-22    | 12002.00   | 12057.00 | Pressure On (psi): 2200.00, Pressure Off (psi): 1900.00, Weight On Bit (klbs): 15.00, Flow Rate (gpm): 250.00, Strokes Per Minute: 86, Toolface: 10, Toolface Type: <i>gravity</i>           |
| Survey        | 46   | 06-22      | 08:05      | 08:10    | 06-22    | 12057.00   | 12057.00 | Inclination (°): 45.630, Azimuth (°): 358.870, TVD (ft): 11948.63, Dogleg (°/100 ft): 11.09, Sensor Depth (ft): 12003.00, Bit To Sensor (ft): 54.00                                          |
| Rotary Drill  | 1    | 06-22      | 08:10      | 08:45    | 06-22    | 12057.00   | 12102.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 20, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78.00  |
| Slide Drill   | 2    | 06-22      | 08:45      | 09:30    | 06-22    | 12102.00   | 12151.00 | Pressure On (psi): 2200.00, Pressure Off (psi): 1900.00, Weight On Bit (klbs): 15.00, Flow Rate (gpm): 250.00, Strokes Per Minute: 86, Toolface: 10, Toolface Type: <i>gravity</i>           |
| Survey        | 46   | 06-22      | 09:30      | 09:35    | 06-22    | 12151.00   | 12151.00 | Inclination (°): 53.490, Azimuth (°): 3.090, TVD (ft): 12009.57, Dogleg (°/100 ft): 9.03, Sensor Depth (ft): 12097.00, Bit To Sensor (ft): 54.00                                             |
| Rotary Drill  | 1    | 06-22      | 09:35      | 10:30    | 06-22    | 12151.00   | 12231.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 20, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78.00  |
| Slide Drill   | 2    | 06-22      | 10:30      | 10:45    | 06-22    | 12231.00   | 12246.00 | Pressure On (psi): 2200.00, Pressure Off (psi): 1900.00, Weight On Bit (klbs): 15.00, Flow Rate (gpm): 250.00, Strokes Per Minute: 86, Toolface: 0, Toolface Type: <i>gravity</i>            |
| Survey        | 46   | 06-22      | 10:45      | 10:50    | 06-22    | 12246.00   | 12246.00 | Inclination (°): 62.020, Azimuth (°): 2.740, TVD (ft): 12060.21, Dogleg (°/100 ft): 8.98, Sensor Depth (ft): 12192.00, Bit To Sensor (ft): 54.00                                             |
| Rotary Drill  | 1    | 06-22      | 10:50      | 11:30    | 06-22    | 12246.00   | 12306.00 | Pressure On (psi): 2550.00, Pressure Off (psi): 1500.00, Weight On Bit (klbs): 20.00, Surface RPM: 20, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 225.00, Strokes Per Minute: 78.00  |
| Slide Drill   | 2    | 06-22      | 11:30      | 12:00    | 06-22    | 12306.00   | 12337.00 | Pressure On (psi): 3400.00, Pressure Off (psi): 2700.00, Weight On Bit (klbs): 15.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 0, Toolface Type: <i>gravity</i>           |
| Survey        | 46   | 06-22      | 12:00      | 12:10    | 06-22    | 12337.00   | 12337.00 | Inclination (°): 62.860, Azimuth (°): 1.770, TVD (ft): 12102.31, Dogleg (°/100 ft): 1.32, Sensor Depth (ft): 12283.00, Bit To Sensor (ft): 54.00                                             |
| Rotary Drill  | 1    | 06-22      | 12:10      | 12:15    | 06-22    | 12337.00   | 12347.00 | Pressure On (psi): 3600.00, Pressure Off (psi): 2700.00, Weight On Bit (klbs): 20.00, Surface RPM: 20, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Slide Drill   | 2    | 06-22      | 12:15      | 13:10    | 06-22    | 12347.00   | 12412.00 | Pressure On (psi): 3400.00, Pressure Off (psi): 2700.00, Weight On Bit (klbs): 15.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 0, Toolface Type: <i>gravity</i>           |

|              |    |       |       |       |       |          |          |                                                                                                                                                                                              |
|--------------|----|-------|-------|-------|-------|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rotary Drill | 1  | 06-22 | 13:10 | 13:25 | 06-22 | 12412.00 | 12432.00 | Pressure On (psi): 3600.00, Pressure Off (psi): 2700.00, Weight On Bit (klbs): 20.00, Surface RPM: 20, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-22 | 13:25 | 13:40 | 06-22 | 12432.00 | 12432.00 | Inclination (°): 74.150, Azimuth (°): 0.370, TVD (ft): 12137.07, Dogleg (°/100 ft): 11.96, Sensor Depth (ft): 12378.00, Bit To Sensor (ft): 54.00                                            |
| Rotary Drill | 1  | 06-22 | 13:40 | 13:50 | 06-22 | 12432.00 | 12447.00 | Pressure On (psi): 3600.00, Pressure Off (psi): 2700.00, Weight On Bit (klbs): 20.00, Surface RPM: 20, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Slide Drill  | 2  | 06-22 | 13:50 | 14:25 | 06-22 | 12447.00 | 12487.00 | Pressure On (psi): 3400.00, Pressure Off (psi): 2700.00, Weight On Bit (klbs): 15.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 0, Toolface Type: gravity                  |
| Rotary Drill | 1  | 06-22 | 14:25 | 14:55 | 06-22 | 12487.00 | 12527.00 | Pressure On (psi): 3600.00, Pressure Off (psi): 2700.00, Weight On Bit (klbs): 20.00, Surface RPM: 20, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-22 | 14:55 | 15:00 | 06-22 | 12527.00 | 12527.00 | Inclination (°): 86.770, Azimuth (°): 0.540, TVD (ft): 12152.78, Dogleg (°/100 ft): 13.29, Sensor Depth (ft): 12473.00, Bit To Sensor (ft): 54.00                                            |
| Rotary Drill | 1  | 06-22 | 15:00 | 15:25 | 06-22 | 12527.00 | 12560.00 | Pressure On (psi): 3600.00, Pressure Off (psi): 2700.00, Weight On Bit (klbs): 20.00, Surface RPM: 20, Surface Torque (ft lbf): 7500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-22 | 15:25 | 15:30 | 06-22 | 12560.00 | 12560.00 | Inclination (°): 89.490, Azimuth (°): 359.840, TVD (ft): 12153.86, Dogleg (°/100 ft): 8.51, Sensor Depth (ft): 12506.00, Bit To Sensor (ft): 54.00                                           |
| Circulating  | 3  | 06-22 | 15:30 | 16:55 | 06-22 |          |          | CIR BTMS UP                                                                                                                                                                                  |
| Pooh         | 7  | 06-22 | 16:55 | 23:15 | 06-22 |          |          | POOH                                                                                                                                                                                         |
| Lay Down BHA | 65 | 06-22 | 23:15 | 00:00 | 06-23 |          |          | L/D MOTOR                                                                                                                                                                                    |

**MWD Activities**

No Activities



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

Wednesday, Jun 23 00:00 - 23:59 (Day 15 of 24)

Billing: \$4,300.00 (\$150,591.57 total)

| Drilling Summary               |          |                            |       | Drilling Parameters              |                   |
|--------------------------------|----------|----------------------------|-------|----------------------------------|-------------------|
| <b>Start Depth (ft)</b>        | 12560.00 | <b>Downhole Hours</b>      | 23.00 | <b>Rotating WOB (klbs)</b>       | 20.00 - 28.00     |
| <b>Bit Depth (ft)</b>          | 14394.00 | <b>Drilling Hours</b>      | 12.75 | <b>Sliding WOB (klbs)</b>        | 20.00 - 20.00     |
| <b>Bottom Hole Depth (ft)</b>  | 14394.00 | <b>Hours Circulating</b>   | 0.00  | <b>Rotating SPM</b>              | 103.00 - 103.00   |
| <b>Total Distance (ft)</b>     | 1834.00  | <b>Hours Sliding</b>       | 5.42  | <b>Sliding SPM</b>               | 103.00 - 103.00   |
| <b>Distance Rotated (ft)</b>   | 1534.00  | <b>Hours Rotating</b>      | 7.33  | <b>Motor RPM</b>                 | 243.00 - 313.00   |
| <b>Distance Slid (ft)</b>      | 300.00   |                            |       | <b>Surface RPM</b>               | 40.00 - 70.00     |
| <b>Inclination In</b>          | 89.32    |                            |       | <b>Flow Rate (gpm)</b>           | 300.00 - 300.00   |
| <b>Inclination Out</b>         | 91.52    |                            |       | <b>On Bottom Pressure (psi)</b>  | 3900.00 - 4150.00 |
| <b>Azimuth In</b>              | 359.22   | <b>% Hours Rotating</b>    | 58%   | <b>Off Bottom Pressure (psi)</b> | 3050.00 - 3200.00 |
| <b>Azimuth Out</b>             | 0.10     | <b>% Hours Sliding</b>     | 42%   |                                  |                   |
| <b>AVG Total ROP (ft/h)</b>    | 147.36   | <b>% Distance Sliding</b>  | 16%   |                                  |                   |
| <b>AVG Rotating ROP (ft/h)</b> | 212.35   | <b>% Distance Rotating</b> | 84%   |                                  |                   |
| <b>AVG Sliding ROP (ft/h)</b>  | 55.38    |                            |       |                                  |                   |

**Personnel**

| Name                | Position            |
|---------------------|---------------------|
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

**BHA #7 - 6.75" LATERAL**

Date In: Jun 23, 2021, 1:00 Date Out: Jun 25, 2021, 4:30

| Bit Details                |         | Motor Details                     |          | Directional Comments                                                              |
|----------------------------|---------|-----------------------------------|----------|-----------------------------------------------------------------------------------|
| OD (in)                    | 6.750   | Size (in)                         | 5.0      | Flow Range: 150-350 gpm, Max Diff: 2400 psi, Max Torque: 7632 ft/lbs, Bit Runs: 1 |
| Vendor                     | REED    | Lobe/Stage                        | 6/7, 8.0 |                                                                                   |
| S/N                        | A257707 | Bend Angle                        | 1.75     |                                                                                   |
| Nozzles                    | 6x16's  | Speed (rev/gal)                   | 0.81     | MWD Comments                                                                      |
| Total Flow Area (in²)      | 1.178   | Wear Pad OD (in)                  | 5.480    |                                                                                   |
| Drilling Hours for Day     | 12.75   | Bit Distances                     |          |                                                                                   |
| Total Drilled for Day (ft) | 1834.00 | Survey: 57.00 ft, Gamma: 42.00 ft |          | POOH Reason                                                                       |
| Drilling Hours for BHA     | 29.58   |                                   |          |                                                                                   |
| Total Drilled for BHA (ft) | 4164.00 |                                   |          |                                                                                   |
|                            |         |                                   |          | Downhole Motor Incident: N/A                                                      |

**Directional Items**

| Description                                                                                                                                            | Vendor   | SN#          | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: SKC613, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 2.50, Size (in): 6.75               | REED     | A257707      | 3 1/2" REG Pin |                |         | 6.750   |              | 1.00     | 1.00           |
| <b>Mud Motor</b><br>Description: 5" 6/7 8.0 FXD @ 1.75° SLICK, Size (in): 5.00, Bend Angle (°): 1.75, Rotor Lobe: 6, Stator Lobe: 7, Stator Stage: 8.0 | Bico     | BPG24750107  | XT39 Box       | 3 1/2" REG Box |         | 5.000   |              | 28.35    | 29.35          |
| <b>Float Sub</b><br>Description: FLOATSUB, Material: Steel                                                                                             | GATOR    | 233054       | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.12     | 32.47          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                       | GATOR    | GT503338     | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.61     | 36.08          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                         | GATOR    | GT-51-30-544 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.78    | 66.86          |
| <b>Drill Collar</b><br>Description: NMDC, Material: Non-Magnetic, Type: Slick Drill                                                                    | GATOR    | GT-51-30-533 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.81    | 97.67          |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                          | Platinum | PPR6502      | CET43 Box      | XT39 Pin       | 2.500   | 5.000   |              | 2.90     | 100.57         |
| <b>Drill Pipe</b><br>Description: 20 STANDS PUSH PIE, Type: Slick                                                                                      | Platinum |              | CET43 Box      | CET43 Pin      | 2.750   | 4.500   |              | 1890.39  | 1990.96        |
| <b>Agitator</b><br>Description: AGITATOR, Size (in): 5.31                                                                                              | NOV      | 178-0038 HE  | CET43 Box      | CET43 Pin      |         | 5.310   |              | 22.52    | 2013.48        |

**MWD Items**

No Items

**Directional Activities**

| Activity Type | Code | Start Date | Start Time | End Time | End Date | Start (ft) | End (ft) | Comments/Details                                                                                                                                                                             |
|---------------|------|------------|------------|----------|----------|------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lay Down BHA  | 65   | 06-22      | 23:15      | 00:00    | 06-23    |            |          | L/D MOTOR                                                                                                                                                                                    |
| Pick Up BHA   | 64   | 06-23      | 00:00      | 01:00    | 06-23    |            |          | P/U MOTOR                                                                                                                                                                                    |
| TIH           | 8    | 06-23      | 01:00      | 08:00    | 06-23    |            |          | TIH W/ BHA #7                                                                                                                                                                                |
| Other         | 16   | 06-23      | 08:00      | 08:20    | 06-23    |            |          | RELOG GAMMA                                                                                                                                                                                  |
| Rotary Drill  | 1    | 06-23      | 08:20      | 08:35    | 06-23    | 12560.00   | 12593.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 20.00, Surface RPM: 40, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey        | 46   | 06-23      | 08:35      | 08:40    | 06-23    | 12593.00   | 12593.00 | Inclination (°): 89.320, Azimuth (°): 359.220, TVD (ft): 12154.17, Dogleg (°/100 ft): 2.14, Sensor Depth (ft): 12536.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill  | 1    | 06-23      | 08:40      | 09:05    | 06-23    | 12593.00   | 12689.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 20.00, Surface RPM: 40, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey        | 46   | 06-23      | 09:05      | 09:10    | 06-23    | 12689.00   | 12689.00 | Inclination (°): 89.630, Azimuth (°): 357.380, TVD (ft): 12155.05, Dogleg (°/100 ft): 1.94, Sensor Depth (ft): 12632.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill  | 1    | 06-23      | 09:10      | 09:15    | 06-23    | 12689.00   | 12694.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 20.00, Surface RPM: 40, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Slide Drill   | 2    | 06-23      | 09:15      | 09:40    | 06-23    | 12694.00   | 12724.00 | Pressure On (psi): 3900.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 90, Toolface Type: gravity                 |
| Rotary Drill  | 1    | 06-23      | 09:40      | 09:55    | 06-23    | 12724.00   | 12783.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 20.00, Surface RPM: 40, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey        | 46   | 06-23      | 09:55      | 10:00    | 06-23    | 12783.00   | 12783.00 | Inclination (°): 93.270, Azimuth (°): 0.100, TVD (ft): 12152.67, Dogleg (°/100 ft): 4.83, Sensor Depth (ft): 12726.00, Bit To Sensor (ft): 57.00                                             |
| Slide Drill   | 2    | 06-23      | 10:00      | 10:50    | 06-23    | 12783.00   | 12808.00 | Pressure On (psi): 3900.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 160, Toolface Type: gravity                |
| Rotary Drill  | 1    | 06-23      | 10:50      | 11:15    | 06-23    | 12808.00   | 12878.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 20.00, Surface RPM: 40, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey        | 46   | 06-23      | 11:15      | 11:20    | 06-23    | 12878.00   | 12878.00 | Inclination (°): 93.670, Azimuth (°): 1.770, TVD (ft): 12146.92, Dogleg (°/100 ft): 1.80, Sensor Depth (ft): 12821.00, Bit To Sensor (ft): 57.00                                             |
| Slide Drill   | 2    | 06-23      | 11:20      | 11:55    | 06-23    | 12878.00   | 12918.00 | Pressure On (psi): 3900.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 180, Toolface Type: gravity                |
| Rotary Drill  | 1    | 06-23      | 11:55      | 12:10    | 06-23    | 12918.00   | 12973.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 20.00, Surface RPM: 40, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey        | 46   | 06-23      | 12:10      | 12:25    | 06-23    | 12973.00   | 12973.00 | Inclination (°): 89.760, Azimuth (°): 2.390, TVD (ft): 12144.08, Dogleg (°/100 ft): 4.17, Sensor Depth (ft): 12916.00, Bit To Sensor (ft): 57.00                                             |
| Rotary Drill  | 1    | 06-23      | 12:25      | 12:50    | 06-23    | 12973.00   | 13068.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 20.00, Surface RPM: 40, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey        | 46   | 06-23      | 12:50      | 12:55    | 06-23    | 13068.00   | 13068.00 | Inclination (°): 90.810, Azimuth (°): 2.650, TVD (ft): 12143.61, Dogleg (°/100 ft): 1.14, Sensor Depth (ft): 13011.00, Bit To Sensor (ft): 57.00                                             |
| Rotary Drill  | 1    | 06-23      | 12:55      | 13:25    | 06-23    | 13068.00   | 13163.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 20.00, Surface RPM: 40, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey        | 46   | 06-23      | 13:25      | 13:40    | 06-23    | 13163.00   | 13163.00 | Inclination (°): 92.790, Azimuth (°): 2.120, TVD (ft): 12140.62, Dogleg (°/100 ft): 2.16, Sensor Depth (ft): 13106.00, Bit To Sensor (ft): 57.00                                             |
| Other         | 16   | 06-23      | 13:40      | 13:55    | 06-23    |            |          | DOWNLINK MWD                                                                                                                                                                                 |
| Slide Drill   | 2    | 06-23      | 13:55      | 14:25    | 06-23    | 13163.00   | 13193.00 | Pressure On (psi): 3900.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 180, Toolface Type: gravity                |
| Rotary Drill  | 1    | 06-23      | 14:25      | 14:40    | 06-23    | 13193.00   | 13256.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 20.00, Surface RPM: 40, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey        | 46   | 06-23      | 14:40      | 14:45    | 06-23    | 13256.00   | 13256.00 | Inclination (°): 90.900, Azimuth (°): 2.650, TVD (ft): 12137.63, Dogleg (°/100 ft): 2.11, Sensor Depth (ft): 13199.00, Bit To Sensor (ft): 57.00                                             |
| Rotary Drill  | 1    | 06-23      | 14:45      | 14:50    | 06-23    | 13256.00   | 13266.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 20.00, Surface RPM: 40, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Slide Drill   | 2    | 06-23      | 14:50      | 15:25    | 06-23    | 13266.00   | 13308.00 | Pressure On (psi): 3900.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 210, Toolface Type: gravity                |

|              |    |       |       |       |       |          |          |                                                                                                                                                                                              |
|--------------|----|-------|-------|-------|-------|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rotary Drill | 1  | 06-23 | 15:25 | 15:35 | 06-23 | 13308.00 | 13351.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 20.00, Surface RPM: 40, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-23 | 15:35 | 15:40 | 06-23 | 13351.00 | 13351.00 | Inclination (°): 88.000, Azimuth (°): 2.120, TVD (ft): 12138.54, Dogleg (°/100 ft): 3.10, Sensor Depth (ft): 13294.00, Bit To Sensor (ft): 57.00                                             |
| Rotary Drill | 1  | 06-23 | 15:40 | 15:50 | 06-23 | 13351.00 | 13385.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 20.00, Surface RPM: 40, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Slide Drill  | 2  | 06-23 | 15:50 | 16:05 | 06-23 | 13385.00 | 13395.00 | Pressure On (psi): 3900.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 0, Toolface Type: gravity                  |
| Rotary Drill | 1  | 06-23 | 16:05 | 16:20 | 06-23 | 13395.00 | 13446.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 20.00, Surface RPM: 40, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-23 | 16:20 | 16:35 | 06-23 | 13446.00 | 13446.00 | Inclination (°): 87.960, Azimuth (°): 359.660, TVD (ft): 12141.89, Dogleg (°/100 ft): 2.59, Sensor Depth (ft): 13389.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill | 1  | 06-23 | 16:35 | 16:55 | 06-23 | 13446.00 | 13541.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 20.00, Surface RPM: 40, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-23 | 16:55 | 17:00 | 06-23 | 13541.00 | 13541.00 | Inclination (°): 90.020, Azimuth (°): 0.020, TVD (ft): 12143.56, Dogleg (°/100 ft): 2.20, Sensor Depth (ft): 13484.00, Bit To Sensor (ft): 57.00                                             |
| Rotary Drill | 1  | 06-23 | 17:00 | 17:20 | 06-23 | 13541.00 | 13636.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 20.00, Surface RPM: 40, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-23 | 17:20 | 17:25 | 06-23 | 13636.00 | 13636.00 | Inclination (°): 91.910, Azimuth (°): 0.020, TVD (ft): 12141.96, Dogleg (°/100 ft): 1.99, Sensor Depth (ft): 13579.00, Bit To Sensor (ft): 57.00                                             |
| Rotary Drill | 1  | 06-23 | 17:25 | 17:45 | 06-23 | 13636.00 | 13730.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 20.00, Surface RPM: 40, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-23 | 17:45 | 18:00 | 06-23 | 13730.00 | 13730.00 | Inclination (°): 93.850, Azimuth (°): 358.790, TVD (ft): 12137.24, Dogleg (°/100 ft): 2.44, Sensor Depth (ft): 13673.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill | 1  | 06-23 | 18:00 | 18:05 | 06-23 | 13730.00 | 13737.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 20.00, Surface RPM: 70, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Slide Drill  | 2  | 06-23 | 18:05 | 18:20 | 06-23 | 13737.00 | 13757.00 | Pressure On (psi): 3900.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 180, Toolface Type: gravity                |
| Rotary Drill | 1  | 06-23 | 18:20 | 18:45 | 06-23 | 13757.00 | 13825.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 25.00, Surface RPM: 70, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-23 | 18:45 | 18:50 | 06-23 | 13825.00 | 13825.00 | Inclination (°): 94.860, Azimuth (°): 358.430, TVD (ft): 12130.03, Dogleg (°/100 ft): 1.13, Sensor Depth (ft): 13768.00, Bit To Sensor (ft): 57.00                                           |
| Slide Drill  | 2  | 06-23 | 18:50 | 19:25 | 06-23 | 13825.00 | 13850.00 | Pressure On (psi): 3900.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 180, Toolface Type: gravity                |
| Rotary Drill | 1  | 06-23 | 19:25 | 19:50 | 06-23 | 13850.00 | 13920.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 25.00, Surface RPM: 70, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-23 | 19:50 | 19:55 | 06-23 | 13920.00 | 13920.00 | Inclination (°): 93.050, Azimuth (°): 358.790, TVD (ft): 12123.47, Dogleg (°/100 ft): 1.94, Sensor Depth (ft): 13863.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill | 1  | 06-23 | 19:55 | 20:10 | 06-23 | 13920.00 | 13964.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 25.00, Surface RPM: 70, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Slide Drill  | 2  | 06-23 | 20:10 | 20:50 | 06-23 | 13964.00 | 13994.00 | Pressure On (psi): 3900.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 180, Toolface Type: gravity                |
| Rotary Drill | 1  | 06-23 | 20:50 | 21:00 | 06-23 | 13994.00 | 14014.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 25.00, Surface RPM: 70, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-23 | 21:00 | 21:05 | 06-23 | 14014.00 | 14014.00 | Inclination (°): 94.810, Azimuth (°): 357.910, TVD (ft): 12117.03, Dogleg (°/100 ft): 2.09, Sensor Depth (ft): 13957.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill | 1  | 06-23 | 21:05 | 21:15 | 06-23 | 14014.00 | 14040.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 25.00, Surface RPM: 70, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Slide Drill  | 2  | 06-23 | 21:15 | 21:45 | 06-23 | 14040.00 | 14070.00 | Pressure On (psi): 3900.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 180, Toolface Type: gravity                |

|              |    |       |       |       |       |          |          |                                                                                                                                                                                              |
|--------------|----|-------|-------|-------|-------|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rotary Drill | 1  | 06-23 | 21:45 | 21:55 | 06-23 | 14070.00 | 14109.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 25.00, Surface RPM: 70, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-23 | 21:55 | 22:00 | 06-23 | 14109.00 | 14109.00 | Inclination (°): 90.240, Azimuth (°): 358.960, TVD (ft): 12112.85, Dogleg (°/100 ft): 4.94, Sensor Depth (ft): 14052.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill | 1  | 06-23 | 22:00 | 22:20 | 06-23 | 14109.00 | 14204.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 28.00, Surface RPM: 70, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-23 | 22:20 | 22:30 | 06-23 | 14204.00 | 14204.00 | Inclination (°): 88.920, Azimuth (°): 359.310, TVD (ft): 12113.54, Dogleg (°/100 ft): 1.44, Sensor Depth (ft): 14147.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill | 1  | 06-23 | 22:30 | 22:50 | 06-23 | 14204.00 | 14299.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 28.00, Surface RPM: 70, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-23 | 22:50 | 22:55 | 06-23 | 14299.00 | 14299.00 | Inclination (°): 91.210, Azimuth (°): 1.160, TVD (ft): 12113.44, Dogleg (°/100 ft): 3.10, Sensor Depth (ft): 14242.00, Bit To Sensor (ft): 57.00                                             |
| Rotary Drill | 1  | 06-23 | 22:55 | 23:10 | 06-23 | 14299.00 | 14325.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 28.00, Surface RPM: 70, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Slide Drill  | 2  | 06-23 | 23:10 | 23:25 | 06-23 | 14325.00 | 14343.00 | Pressure On (psi): 3900.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 225, Toolface Type: gravity                |
| Rotary Drill | 1  | 06-23 | 23:25 | 23:40 | 06-23 | 14343.00 | 14394.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 28.00, Surface RPM: 70, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-23 | 23:40 | 23:45 | 06-23 | 14394.00 | 14394.00 | Inclination (°): 91.520, Azimuth (°): 0.100, TVD (ft): 12111.17, Dogleg (°/100 ft): 1.16, Sensor Depth (ft): 14337.00, Bit To Sensor (ft): 57.00                                             |
| Rotary Drill | 1  | 06-23 | 23:45 | 00:05 | 06-24 | 14394.00 | 14488.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 28.00, Surface RPM: 70, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00 |

**MWD Activities**

No Activities



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

Thursday, Jun 24 00:00 - 23:59 (Day 16 of 24)

Billing: \$4,300.00 (\$150,591.57 total)

**Drilling Summary**

|                                |          |                            |       |                                  |                   |
|--------------------------------|----------|----------------------------|-------|----------------------------------|-------------------|
| <b>Start Depth (ft)</b>        | 14394.00 | <b>Downhole Hours</b>      | 24.00 | <b>Rotating WOB (klbs)</b>       | 28.00 - 35.00     |
| <b>Bit Depth (ft)</b>          | 16724.00 | <b>Drilling Hours</b>      | 16.83 | <b>Sliding WOB (klbs)</b>        | 20.00 - 30.00     |
| <b>Bottom Hole Depth (ft)</b>  | 16724.00 | <b>Hours Circulating</b>   | 1.42  | <b>Rotating SPM</b>              | 103.00 - 103.00   |
| <b>Total Distance (ft)</b>     | 2330.00  | <b>Hours Sliding</b>       | 6.00  | <b>Sliding SPM</b>               | 103.00 - 103.00   |
| <b>Distance Rotated (ft)</b>   | 2026.00  | <b>Hours Rotating</b>      | 10.83 | <b>Motor RPM</b>                 | 243.00 - 313.00   |
| <b>Distance Slid (ft)</b>      | 304.00   |                            |       | <b>Surface RPM</b>               | 70.00 - 70.00     |
| <b>Inclination In</b>          | 92.62    |                            |       | <b>Flow Rate (gpm)</b>           | 298.00 - 300.00   |
| <b>Inclination Out</b>         | 90.24    |                            |       | <b>On Bottom Pressure (psi)</b>  | 3700.00 - 4500.00 |
| <b>Azimuth In</b>              | 358.87   | <b>% Hours Rotating</b>    | 64%   | <b>Off Bottom Pressure (psi)</b> | 3050.00 - 3200.00 |
| <b>Azimuth Out</b>             | 359.05   | <b>% Hours Sliding</b>     | 36%   |                                  |                   |
| <b>AVG Total ROP (ft/h)</b>    | 138.42   | <b>% Distance Sliding</b>  | 13%   |                                  |                   |
| <b>AVG Rotating ROP (ft/h)</b> | 187.02   | <b>% Distance Rotating</b> | 87%   |                                  |                   |
| <b>AVG Sliding ROP (ft/h)</b>  | 50.67    |                            |       |                                  |                   |

**Personnel**

| Name                | Position            |
|---------------------|---------------------|
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

**BHA #7 - 6.75" LATERAL**

Date In: Jun 23, 2021, 1:00 Date Out: Jun 25, 2021, 4:30

| Bit Details                |         | Motor Details                     |          | Directional Comments                                                              |
|----------------------------|---------|-----------------------------------|----------|-----------------------------------------------------------------------------------|
| OD (in)                    | 6.750   | Size (in)                         | 5.0      | Flow Range: 150-350 gpm, Max Diff: 2400 psi, Max Torque: 7632 ft/lbs, Bit Runs: 1 |
| Vendor                     | REED    | Lobe/Stage                        | 6/7, 8.0 |                                                                                   |
| S/N                        | A257707 | Bend Angle                        | 1.75     |                                                                                   |
| Nozzles                    | 6x16's  | Speed (rev/gal)                   | 0.81     | MWD Comments                                                                      |
| Total Flow Area (in²)      | 1.178   | Wear Pad OD (in)                  | 5.480    | POOH Reason<br>Downhole Motor Incident: N/A                                       |
| Drilling Hours for Day     | 16.83   | Bit Distances                     |          |                                                                                   |
| Total Drilled for Day (ft) | 2330.00 | Survey: 57.00 ft, Gamma: 42.00 ft |          |                                                                                   |
| Drilling Hours for BHA     | 29.58   |                                   |          |                                                                                   |
| Total Drilled for BHA (ft) | 4164.00 |                                   |          |                                                                                   |

**Directional Items**

| Description                                                                                                                                            | Vendor   | SN#          | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: SKC613, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 2.50, Size (in): 6.75               | REED     | A257707      | 3 1/2" REG Pin |                |         | 6.750   |              | 1.00     | 1.00           |
| <b>Mud Motor</b><br>Description: 5" 6/7 8.0 FXD @ 1.75° SLICK, Size (in): 5.00, Bend Angle (°): 1.75, Rotor Lobe: 6, Stator Lobe: 7, Stator Stage: 8.0 | Bico     | BPG24750107  | XT39 Box       | 3 1/2" REG Box |         | 5.000   |              | 28.35    | 29.35          |
| <b>Float Sub</b><br>Description: FLOATSUB, Material: Steel                                                                                             | GATOR    | 233054       | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.12     | 32.47          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                       | GATOR    | GT503338     | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.61     | 36.08          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                         | GATOR    | GT-51-30-544 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.78    | 66.86          |
| <b>Drill Collar</b><br>Description: NMDC, Material: Non-Magnetic, Type: Slick Drill                                                                    | GATOR    | GT-51-30-533 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.81    | 97.67          |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                          | Platinum | PPR6502      | CET43 Box      | XT39 Pin       | 2.500   | 5.000   |              | 2.90     | 100.57         |
| <b>Drill Pipe</b><br>Description: 20 STANDS PUSH PIE, Type: Slick                                                                                      | Platinum |              | CET43 Box      | CET43 Pin      | 2.750   | 4.500   |              | 1890.39  | 1990.96        |
| <b>Agitator</b><br>Description: AGITATOR, Size (in): 5.31                                                                                              | NOV      | 178-0038 HE  | CET43 Box      | CET43 Pin      |         | 5.310   |              | 22.52    | 2013.48        |

**MWD Items**

No Items

**Directional Activities**

| Activity Type         | Code | Start Date | Start Time | End Time | End Date | Start (ft) | End (ft) | Comments/Details                                                                                                                                                                              |
|-----------------------|------|------------|------------|----------|----------|------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rotary Drill          | 1    | 06-23      | 23:45      | 00:05    | 06-24    | 14394.00   | 14488.00 | Pressure On (psi): 4150.00, Pressure Off (psi): 3050.00, Weight On Bit (klbs): 28.00, Surface RPM: 70, Surface Torque (ft lbf): 8500.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103.00  |
| Survey                | 46   | 06-24      | 00:05      | 00:10    | 06-24    | 14488.00   | 14488.00 | Inclination (°): 92.620, Azimuth (°): 358.870, TVD (ft): 12107.78, Dogleg (°/100 ft): 1.75, Sensor Depth (ft): 14431.00, Bit To Sensor (ft): 57.00                                            |
| Rotary Drill          | 1    | 06-24      | 00:10      | 00:25    | 06-24    | 14488.00   | 14530.00 |                                                                                                                                                                                               |
| Slide Drill           | 2    | 06-24      | 00:25      | 01:00    | 06-24    | 14530.00   | 14550.00 | Pressure On (psi): 3900.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 180, Toolface Type: gravity                 |
| Rotary Drill          | 1    | 06-24      | 01:00      | 01:10    | 06-24    | 14550.00   | 14583.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 28.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Survey                | 46   | 06-24      | 01:10      | 01:15    | 06-24    | 14583.00   | 14583.00 | Inclination (°): 94.730, Azimuth (°): 359.580, TVD (ft): 12101.69, Dogleg (°/100 ft): 2.34, Sensor Depth (ft): 14526.00, Bit To Sensor (ft): 57.00                                            |
| Rotary Drill          | 1    | 06-24      | 01:15      | 01:25    | 06-24    | 14583.00   | 14610.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 28.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Slide Drill           | 2    | 06-24      | 01:25      | 02:05    | 06-24    | 14610.00   | 14646.00 | Pressure On (psi): 3900.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 20.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 180, Toolface Type: gravity                 |
| Rotary Drill          | 1    | 06-24      | 02:05      | 02:15    | 06-24    | 14646.00   | 14678.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 28.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Rig Service - In Hole | 19   | 06-24      | 02:15      | 02:35    | 06-24    |            |          |                                                                                                                                                                                               |
| Survey                | 46   | 06-24      | 02:35      | 02:40    | 06-24    | 14678.00   | 14678.00 | Inclination (°): 92.040, Azimuth (°): 0.630, TVD (ft): 12096.08, Dogleg (°/100 ft): 3.04, Sensor Depth (ft): 14621.00, Bit To Sensor (ft): 57.00                                              |
| Rotary Drill          | 1    | 06-24      | 02:40      | 03:05    | 06-24    | 14678.00   | 14774.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 28.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Survey                | 46   | 06-24      | 03:05      | 03:10    | 06-24    | 14774.00   | 14774.00 | Inclination (°): 89.850, Azimuth (°): 1.690, TVD (ft): 12094.50, Dogleg (°/100 ft): 2.53, Sensor Depth (ft): 14717.00, Bit To Sensor (ft): 57.00                                              |
| Rotary Drill          | 1    | 06-24      | 03:10      | 03:35    | 06-24    | 14774.00   | 14868.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 30.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Survey                | 46   | 06-24      | 03:35      | 03:40    | 06-24    | 14868.00   | 14868.00 | Inclination (°): 90.420, Azimuth (°): 0.020, TVD (ft): 12094.28, Dogleg (°/100 ft): 1.88, Sensor Depth (ft): 14811.00, Bit To Sensor (ft): 57.00                                              |
| Rotary Drill          | 1    | 06-24      | 03:40      | 04:00    | 06-24    | 14868.00   | 14964.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Survey                | 46   | 06-24      | 04:00      | 04:05    | 06-24    | 14964.00   | 14964.00 | Inclination (°): 91.030, Azimuth (°): 356.680, TVD (ft): 12093.06, Dogleg (°/100 ft): 3.54, Sensor Depth (ft): 14907.00, Bit To Sensor (ft): 57.00                                            |
| Rotary Drill          | 1    | 06-24      | 04:05      | 04:15    | 06-24    | 14964.00   | 14976.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Slide Drill           | 2    | 06-24      | 04:15      | 04:40    | 06-24    | 14976.00   | 14991.00 | Pressure On (psi): 3700.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 30.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 60, Toolface Type: gravity                  |
| Rotary Drill          | 1    | 06-24      | 04:40      | 05:00    | 06-24    | 14991.00   | 15059.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Survey                | 46   | 06-24      | 05:00      | 05:05    | 06-24    | 15059.00   | 15059.00 | Inclination (°): 92.400, Azimuth (°): 357.470, TVD (ft): 12090.22, Dogleg (°/100 ft): 1.66, Sensor Depth (ft): 15002.00, Bit To Sensor (ft): 57.00                                            |
| Rotary Drill          | 1    | 06-24      | 05:05      | 05:35    | 06-24    | 15059.00   | 15155.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Survey                | 46   | 06-24      | 05:35      | 05:40    | 06-24    | 15155.00   | 15155.00 | Inclination (°): 93.980, Azimuth (°): 356.500, TVD (ft): 12084.88, Dogleg (°/100 ft): 1.93, Sensor Depth (ft): 15098.00, Bit To Sensor (ft): 57.00                                            |
| Rotary Drill          | 1    | 06-24      | 05:40      | 05:50    | 06-24    | 15155.00   | 15177.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Slide Drill           | 2    | 06-24      | 05:50      | 06:05    | 06-24    | 15177.00   | 15202.00 | Pressure On (psi): 3700.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 30.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 135, Toolface Type: gravity                 |
| Rotary Drill          | 1    | 06-24      | 06:05      | 06:30    | 06-24    | 15202.00   | 15247.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |

|              |    |       |       |       |       |          |          |                                                                                                                                                                                               |
|--------------|----|-------|-------|-------|-------|----------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Survey       | 46 | 06-24 | 06:30 | 06:45 | 06-24 | 15247.00 | 15247.00 | Inclination (°): 93.360, Azimuth (°): 357.470, TVD (ft): 12078.99, Dogleg (°/100 ft): 1.25, Sensor Depth (ft): 15190.00, Bit To Sensor (ft): 57.00                                            |
| Rotary Drill | 1  | 06-24 | 06:45 | 07:00 | 06-24 | 15247.00 | 15341.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-24 | 07:00 | 07:05 | 06-24 | 15341.00 | 15341.00 | Inclination (°): 93.980, Azimuth (°): 357.910, TVD (ft): 12072.97, Dogleg (°/100 ft): 0.81, Sensor Depth (ft): 15284.00, Bit To Sensor (ft): 57.00                                            |
| Rotary Drill | 1  | 06-24 | 07:05 | 07:10 | 06-24 | 15341.00 | 15351.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Slide Drill  | 2  | 06-24 | 07:10 | 07:50 | 06-24 | 15351.00 | 15391.00 | Pressure On (psi): 3700.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 30.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 140, Toolface Type: gravity                 |
| Rotary Drill | 1  | 06-24 | 07:50 | 08:10 | 06-24 | 15391.00 | 15436.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-24 | 08:10 | 08:25 | 06-24 | 15436.00 | 15436.00 | Inclination (°): 92.480, Azimuth (°): 0.020, TVD (ft): 12067.62, Dogleg (°/100 ft): 2.72, Sensor Depth (ft): 15379.00, Bit To Sensor (ft): 57.00                                              |
| Rotary Drill | 1  | 06-24 | 08:25 | 08:45 | 06-24 | 15436.00 | 15529.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-24 | 08:45 | 08:50 | 06-24 | 15529.00 | 15529.00 | Inclination (°): 92.090, Azimuth (°): 1.330, TVD (ft): 12063.91, Dogleg (°/100 ft): 1.47, Sensor Depth (ft): 15472.00, Bit To Sensor (ft): 57.00                                              |
| Rotary Drill | 1  | 06-24 | 08:50 | 09:20 | 06-24 | 15529.00 | 15622.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-24 | 09:20 | 09:25 | 06-24 | 15622.00 | 15622.00 | Inclination (°): 93.230, Azimuth (°): 2.040, TVD (ft): 12059.59, Dogleg (°/100 ft): 1.44, Sensor Depth (ft): 15565.00, Bit To Sensor (ft): 57.00                                              |
| Rotary Drill | 1  | 06-24 | 09:25 | 09:30 | 06-24 | 15622.00 | 15636.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Slide Drill  | 2  | 06-24 | 09:30 | 10:00 | 06-24 | 15636.00 | 15671.00 | Pressure On (psi): 3700.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 30.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 180, Toolface Type: gravity                 |
| Rotary Drill | 1  | 06-24 | 10:00 | 10:15 | 06-24 | 15671.00 | 15715.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-24 | 10:15 | 10:20 | 06-24 | 15715.00 | 15715.00 | Inclination (°): 91.690, Azimuth (°): 1.330, TVD (ft): 12055.60, Dogleg (°/100 ft): 1.82, Sensor Depth (ft): 15658.00, Bit To Sensor (ft): 57.00                                              |
| Rotary Drill | 1  | 06-24 | 10:20 | 10:55 | 06-24 | 15715.00 | 15808.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-24 | 10:55 | 11:00 | 06-24 | 15808.00 | 15808.00 | Inclination (°): 92.130, Azimuth (°): 1.600, TVD (ft): 12052.50, Dogleg (°/100 ft): 0.56, Sensor Depth (ft): 15751.00, Bit To Sensor (ft): 57.00                                              |
| Rotary Drill | 1  | 06-24 | 11:00 | 11:05 | 06-24 | 15808.00 | 15818.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Slide Drill  | 2  | 06-24 | 11:05 | 11:35 | 06-24 | 15818.00 | 15848.00 | Pressure On (psi): 3700.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 30.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 200, Toolface Type: gravity                 |
| Rotary Drill | 1  | 06-24 | 11:35 | 11:55 | 06-24 | 15848.00 | 15899.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-24 | 11:55 | 12:00 | 06-24 | 15899.00 | 15899.00 | Inclination (°): 89.980, Azimuth (°): 2.210, TVD (ft): 12050.83, Dogleg (°/100 ft): 2.46, Sensor Depth (ft): 15842.00, Bit To Sensor (ft): 57.00                                              |
| Rotary Drill | 1  | 06-24 | 12:00 | 12:25 | 06-24 | 15899.00 | 15991.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-24 | 12:25 | 12:30 | 06-24 | 15991.00 | 15991.00 | Inclination (°): 90.590, Azimuth (°): 2.040, TVD (ft): 12050.37, Dogleg (°/100 ft): 0.69, Sensor Depth (ft): 15934.00, Bit To Sensor (ft): 57.00                                              |
| Rotary Drill | 1  | 06-24 | 12:30 | 12:50 | 06-24 | 15991.00 | 16085.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Survey       | 46 | 06-24 | 12:50 | 13:00 | 06-24 | 16085.00 | 16085.00 | Inclination (°): 92.040, Azimuth (°): 1.420, TVD (ft): 12048.21, Dogleg (°/100 ft): 1.68, Sensor Depth (ft): 16028.00, Bit To Sensor (ft): 57.00                                              |
| Slide Drill  | 2  | 06-24 | 13:00 | 13:50 | 06-24 | 16085.00 | 16125.00 | Pressure On (psi): 3700.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 30.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 200, Toolface Type: gravity                 |

|                       |    |       |       |       |       |          |          |                                                                                                                                                                                               |
|-----------------------|----|-------|-------|-------|-------|----------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rotary Drill          | 1  | 06-24 | 13:50 | 14:05 | 06-24 | 16125.00 | 16180.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Survey                | 46 | 06-24 | 14:05 | 14:10 | 06-24 | 16180.00 | 16180.00 | Inclination (°): 89.190, Azimuth (°): 1.250, TVD (ft): 12047.19, Dogleg (°/100 ft): 3.01, Sensor Depth (ft): 16123.00, Bit To Sensor (ft): 57.00                                              |
| Rotary Drill          | 1  | 06-24 | 14:10 | 14:15 | 06-24 | 16180.00 | 16190.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Slide Drill           | 2  | 06-24 | 14:15 | 14:35 | 06-24 | 16190.00 | 16205.00 | Pressure On (psi): 3700.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 30.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 200, Toolface Type: gravity                 |
| Rotary Drill          | 1  | 06-24 | 14:35 | 14:55 | 06-24 | 16205.00 | 16273.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Survey                | 46 | 06-24 | 14:55 | 15:00 | 06-24 | 16273.00 | 16273.00 | Inclination (°): 87.300, Azimuth (°): 0.100, TVD (ft): 12050.04, Dogleg (°/100 ft): 2.38, Sensor Depth (ft): 16216.00, Bit To Sensor (ft): 57.00                                              |
| Rotary Drill          | 1  | 06-24 | 15:00 | 15:25 | 06-24 | 16273.00 | 16368.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Survey                | 46 | 06-24 | 15:25 | 15:30 | 06-24 | 16368.00 | 16368.00 | Inclination (°): 88.220, Azimuth (°): 0.100, TVD (ft): 12053.75, Dogleg (°/100 ft): 0.97, Sensor Depth (ft): 16311.00, Bit To Sensor (ft): 57.00                                              |
| Rotary Drill          | 1  | 06-24 | 15:30 | 16:05 | 06-24 | 16368.00 | 16462.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Rig Service - In Hole | 19 | 06-24 | 16:05 | 16:15 | 06-24 |          |          | RIG SERVICE                                                                                                                                                                                   |
| Survey                | 46 | 06-24 | 16:15 | 16:20 | 06-24 | 16462.00 | 16462.00 | Inclination (°): 90.020, Azimuth (°): 359.660, TVD (ft): 12055.20, Dogleg (°/100 ft): 1.97, Sensor Depth (ft): 16405.00, Bit To Sensor (ft): 57.00                                            |
| Rotary Drill          | 1  | 06-24 | 16:20 | 16:50 | 06-24 | 16462.00 | 16553.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Survey                | 46 | 06-24 | 16:50 | 17:00 | 06-24 | 16556.00 | 16556.00 | Inclination (°): 91.780, Azimuth (°): 359.660, TVD (ft): 12053.72, Dogleg (°/100 ft): 1.87, Sensor Depth (ft): 16499.00, Bit To Sensor (ft): 57.00                                            |
| Slide Drill           | 2  | 06-24 | 17:00 | 17:50 | 06-24 | 16553.00 | 16586.00 | Pressure On (psi): 3700.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 30.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 180, Toolface Type: gravity                 |
| Rotary Drill          | 1  | 06-24 | 17:50 | 18:15 | 06-24 | 16586.00 | 16645.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Survey                | 46 | 06-24 | 18:15 | 18:20 | 06-24 | 16651.00 | 16651.00 | Inclination (°): 90.240, Azimuth (°): 359.050, TVD (ft): 12052.04, Dogleg (°/100 ft): 1.74, Sensor Depth (ft): 16594.00, Bit To Sensor (ft): 57.00                                            |
| Rotary Drill          | 1  | 06-24 | 18:20 | 18:35 | 06-24 | 16645.00 | 16690.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Slide Drill           | 2  | 06-24 | 18:35 | 19:00 | 06-24 | 16690.00 | 16705.00 | Pressure On (psi): 3700.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 30.00, Flow Rate (gpm): 300.00, Strokes Per Minute: 103, Toolface: 180, Toolface Type: gravity                 |
| Rotary Drill          | 1  | 06-24 | 19:00 | 19:35 | 06-24 | 16705.00 | 16724.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 3200.00, Weight On Bit (klbs): 35.00, Surface RPM: 70, Surface Torque (ft lbf): 12000.00, Flow Rate (gpm): 298.00, Strokes Per Minute: 103.00 |
| Circulating           | 3  | 06-24 | 19:35 | 21:00 | 06-24 |          |          | Circulate, pump slug to POOH                                                                                                                                                                  |
| Pooh                  | 7  | 06-24 | 21:00 | 04:30 | 06-25 |          |          | POOH for slower ROP, motor stalling                                                                                                                                                           |

**MWD Activities**

No Activities



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

Friday, Jun 25 00:00 - 23:59 (Day 17 of 24)

Billing: \$4,300.00 (\$150,591.57 total)

| Drilling Summary               |          |                            |       | Drilling Parameters              |                   |
|--------------------------------|----------|----------------------------|-------|----------------------------------|-------------------|
| <b>Start Depth (ft)</b>        | 16724.00 | <b>Downhole Hours</b>      | 22.00 | <b>Rotating WOB (klbs)</b>       | 25.00 - 25.00     |
| <b>Bit Depth (ft)</b>          | 17311.00 | <b>Drilling Hours</b>      | 6.75  | <b>Sliding WOB (klbs)</b>        | 40.00 - 40.00     |
| <b>Bottom Hole Depth (ft)</b>  | 17311.00 | <b>Hours Circulating</b>   | 0.58  | <b>Rotating SPM</b>              | 95.00 - 95.00     |
| <b>Total Distance (ft)</b>     | 587.00   | <b>Hours Sliding</b>       | 2.33  | <b>Sliding SPM</b>               | 95.00 - 95.00     |
| <b>Distance Rotated (ft)</b>   | 507.00   | <b>Hours Rotating</b>      | 4.42  | <b>Motor RPM</b>                 | 0.00 - 313.00     |
| <b>Distance Slid (ft)</b>      | 80.00    |                            |       | <b>Surface RPM</b>               | 40.00 - 40.00     |
| <b>Inclination In</b>          | 90.07    |                            |       | <b>Flow Rate (gpm)</b>           | 275.00 - 275.00   |
| <b>Inclination Out</b>         | 87.30    |                            |       | <b>On Bottom Pressure (psi)</b>  | 3850.00 - 4550.00 |
| <b>Azimuth In</b>              | 358.96   | <b>% Hours Rotating</b>    | 65%   | <b>Off Bottom Pressure (psi)</b> | 3350.00 - 3550.00 |
| <b>Azimuth Out</b>             | 356.85   | <b>% Hours Sliding</b>     | 35%   |                                  |                   |
| <b>AVG Total ROP (ft/h)</b>    | 86.96    | <b>% Distance Sliding</b>  | 14%   |                                  |                   |
| <b>AVG Rotating ROP (ft/h)</b> | 114.79   | <b>% Distance Rotating</b> | 86%   |                                  |                   |
| <b>AVG Sliding ROP (ft/h)</b>  | 34.29    |                            |       |                                  |                   |

**Personnel**

| Name                | Position            |
|---------------------|---------------------|
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

**BHA #7 - 6.75" LATERAL**

Date In: Jun 23, 2021, 1:00 Date Out: Jun 25, 2021, 4:30

| Bit Details                |         | Motor Details                     |          | Directional Comments                                                              |
|----------------------------|---------|-----------------------------------|----------|-----------------------------------------------------------------------------------|
| OD (in)                    | 6.750   | Size (in)                         | 5.0      | Flow Range: 150-350 gpm, Max Diff: 2400 psi, Max Torque: 7632 ft/lbs, Bit Runs: 1 |
| Vendor                     | REED    | Lobe/Stage                        | 6/7, 8.0 |                                                                                   |
| S/N                        | A257707 | Bend Angle                        | 1.75     |                                                                                   |
| Nozzles                    | 6x16's  | Speed (rev/gal)                   | 0.81     | MWD Comments                                                                      |
| Total Flow Area (in²)      | 1.178   | Wear Pad OD (in)                  | 5.480    |                                                                                   |
| Drilling Hours for Day     | 0.00    | Bit Distances                     |          |                                                                                   |
| Total Drilled for Day (ft) |         | Survey: 57.00 ft, Gamma: 42.00 ft |          | POOH Reason<br>Downhole Motor Incident: N/A                                       |
| Drilling Hours for BHA     | 29.58   |                                   |          |                                                                                   |
| Total Drilled for BHA (ft) | 4164.00 |                                   |          |                                                                                   |

**Directional Items**

| Description                                                                                                                                            | Vendor   | SN#          | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: SKC613, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 2.50, Size (in): 6.75               | REED     | A257707      | 3 1/2" REG Pin |                |         | 6.750   |              | 1.00     | 1.00           |
| <b>Mud Motor</b><br>Description: 5" 6/7 8.0 FXD @ 1.75° SLICK, Size (in): 5.00, Bend Angle (°): 1.75, Rotor Lobe: 6, Stator Lobe: 7, Stator Stage: 8.0 | Bico     | BPG24750107  | XT39 Box       | 3 1/2" REG Box |         | 5.000   |              | 28.35    | 29.35          |
| <b>Float Sub</b><br>Description: FLOATSUB, Material: Steel                                                                                             | GATOR    | 233054       | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.12     | 32.47          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                       | GATOR    | GT503338     | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.61     | 36.08          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                         | GATOR    | GT-51-30-544 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.78    | 66.86          |
| <b>Drill Collar</b><br>Description: NMDC, Material: Non-Magnetic, Type: Slick Drill                                                                    | GATOR    | GT-51-30-533 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.81    | 97.67          |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                          | Platinum | PPR6502      | CET43 Box      | XT39 Pin       | 2.500   | 5.000   |              | 2.90     | 100.57         |
| <b>Drill Pipe</b><br>Description: 20 STANDS PUSH PIE, Type: Slick                                                                                      | Platinum |              | CET43 Box      | CET43 Pin      | 2.750   | 4.500   |              | 1890.39  | 1990.96        |
| <b>Agitator</b><br>Description: AGITATOR, Size (in): 5.31                                                                                              | NOV      | 178-0038 HE  | CET43 Box      | CET43 Pin      |         | 5.310   |              | 22.52    | 2013.48        |

**MWD Items**

No Items

**BHA #8 - 6.75" LATERAL**

Date In: Jun 25, 2021, 6:30 Date Out: Jun 28, 2021, 22:00

| Bit Details                |         | Motor Details                     |          | Directional Comments                                                              |
|----------------------------|---------|-----------------------------------|----------|-----------------------------------------------------------------------------------|
| OD (in)                    | 6.750   | Size (in)                         | 5.0      | Flow Range: 150-350 gpm, Max Diff: 2400 psi, Max Torque: 7632 ft/lbs, Bit Runs: 3 |
| Vendor                     | REED    | Lobe/Stage                        | 6/7, 8.0 |                                                                                   |
| S/N                        | A257713 | Bend Angle                        | 1.75     |                                                                                   |
| Nozzles                    | 6x15's  | Speed (rev/gal)                   | 0.81     | MWD Comments                                                                      |
| Total Flow Area (in²)      | 1.035   | Wear Pad OD (in)                  | 5.480    |                                                                                   |
| Drilling Hours for Day     | 6.75    | Bit Distances                     |          |                                                                                   |
| Total Drilled for Day (ft) | 587.00  | Survey: 57.00 ft, Gamma: 42.00 ft |          |                                                                                   |
| Drilling Hours for BHA     | 42.58   |                                   |          |                                                                                   |
| Total Drilled for BHA (ft) | 3586.00 |                                   |          |                                                                                   |
|                            |         |                                   |          | POOH Reason                                                                       |
|                            |         |                                   |          | Total Depth/Casing Point: N/A                                                     |

**Directional Items**

| Description                                                                                                                                          | Vendor   | SN#          | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: SKC613, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 2.50, Size (in): 6.75             | REED     | A257713      | 3 1/2" REG Pin |                |         | 6.750   |              | 1.00     | 1.00           |
| <b>Mud Motor</b><br>Description: 5" 6/7 8.0 FXD @ 1.75° SLICK, Size (in): 5.00, Bend Angle (°): 1.75, Rotor Lobe: 6, Stator Lobe: 7, Stator Stage: 8 | Bico     | BPG24750143  | XT39 Box       | 3 1/2" REG Box |         | 5.000   |              | 28.23    | 29.23          |
| <b>Float Sub</b><br>Description: FLOATSUB, Material: Steel                                                                                           | GATOR    | 233054       | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.12     | 32.35          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                     | GATOR    | GT503338     | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.61     | 35.96          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                       | GATOR    | GT-51-30-544 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.78    | 66.74          |
| <b>Drill Collar</b><br>Description: NMDC, Material: Non-Magnetic, Type: Slick Drill                                                                  | GATOR    | GT-51-30-533 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.81    | 97.55          |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                        | Platinum | PPR6502      | CET43 Box      | XT39 Pin       | 2.500   | 5.000   |              | 2.90     | 100.45         |
| <b>Drill Pipe</b><br>Description: 20 STANDS DRILL PIPE, Type: Slick                                                                                  | Platinum |              | CET43 Box      | CET43 Pin      | 2.750   | 4.500   |              | 1890.39  | 1990.84        |
| <b>Agitator</b><br>Description: AGITATOR, Size (in): 5.31                                                                                            | NOV      | 178-0038 HE  | CET43 Box      | CET43 Pin      |         | 5.310   |              | 22.52    | 2013.36        |

**MWD Items**

No Items

**Directional Activities**

| Activity Type | Code | Start Date | Start Time | End Time | End Date | Start (ft) | End (ft) | Comments/Details                                                                                                                                                                             |
|---------------|------|------------|------------|----------|----------|------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pooh          | 7    | 06-24      | 21:00      | 04:30    | 06-25    |            |          | POOH for slower ROP, motor stalling                                                                                                                                                          |
| Change BHA    | 6    | 06-25      | 04:30      | 06:30    | 06-25    |            |          | P/U BHA # 8                                                                                                                                                                                  |
| Rig Repair    | 14   | 06-25      | 06:30      | 07:45    | 06-25    |            |          | RIG REPAIR                                                                                                                                                                                   |
| TIH           | 8    | 06-25      | 07:45      | 08:20    | 06-25    |            |          | TIH W/ BHA #8                                                                                                                                                                                |
| Other         | 16   | 06-25      | 08:20      | 08:40    | 06-25    |            |          | P/U & TEST AGITATOR                                                                                                                                                                          |
| TIH           | 8    | 06-25      | 08:40      | 11:50    | 06-25    |            |          | TIH W/ BHA #8                                                                                                                                                                                |
| Other         | 16   | 06-25      | 11:50      | 13:20    | 06-25    |            |          | SLIP & CUT DRILL LINE                                                                                                                                                                        |
| TIH           | 8    | 06-25      | 13:20      | 16:10    | 06-25    |            |          | TIH W/ BHA #8                                                                                                                                                                                |
| Rotary Drill  | 1    | 06-25      | 16:10      | 16:15    | 06-25    | 16724.00   | 16736.00 | Pressure On (psi): 4550.00, Pressure Off (psi): 3550.00, Weight On Bit (klbs): 25.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey        | 46   | 06-25      | 16:15      | 16:20    | 06-25    | 16745.00   | 16745.00 | Inclination (°): 90.070, Azimuth (°): 358.960, TVD (ft): 12051.79, Dogleg (°/100 ft): 0.20, Sensor Depth (ft): 16688.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill  | 1    | 06-25      | 16:20      | 16:50    | 06-25    | 16736.00   | 16828.00 | Pressure On (psi): 4550.00, Pressure Off (psi): 3550.00, Weight On Bit (klbs): 25.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey        | 46   | 06-25      | 16:50      | 16:55    | 06-25    | 16839.00   | 16839.00 | Inclination (°): 90.860, Azimuth (°): 358.080, TVD (ft): 12051.03, Dogleg (°/100 ft): 1.26, Sensor Depth (ft): 16782.00, Bit To Sensor (ft): 57.00                                           |
| Circulating   | 3    | 06-25      | 16:55      | 17:30    | 06-25    |            |          | Circulating gas                                                                                                                                                                              |
| Rotary Drill  | 1    | 06-25      | 17:30      | 17:45    | 06-25    | 16828.00   | 16867.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 25.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Slide Drill   | 2    | 06-25      | 17:45      | 19:05    | 06-25    | 16867.00   | 16900.00 | Pressure On (psi): 3850.00, Pressure Off (psi): 3400.00, Weight On Bit (klbs): 40.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 180, Toolface Type: gravity                 |

|              |    |       |       |       |       |          |          |                                                                                                                                                                                              |
|--------------|----|-------|-------|-------|-------|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rotary Drill | 1  | 06-25 | 19:05 | 19:25 | 06-25 | 16900.00 | 16934.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 25.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-25 | 19:25 | 19:30 | 06-25 | 16934.00 | 16934.00 | Inclination (°): 89.800, Azimuth (°): 358.700, TVD (ft): 12050.48, Dogleg (°/100 ft): 1.29, Sensor Depth (ft): 16877.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill | 1  | 06-25 | 19:30 | 20:05 | 06-25 | 16934.00 | 17003.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 25.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Slide Drill  | 2  | 06-25 | 20:05 | 20:50 | 06-25 | 17003.00 | 17025.00 | Pressure On (psi): 3850.00, Pressure Off (psi): 3400.00, Weight On Bit (klbs): 40.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 180, Toolface Type: gravity                 |
| Rotary Drill | 1  | 06-25 | 20:50 | 21:00 | 06-25 | 17025.00 | 17029.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 25.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-25 | 21:00 | 21:05 | 06-25 | 17029.00 | 17029.00 | Inclination (°): 89.140, Azimuth (°): 358.430, TVD (ft): 12051.36, Dogleg (°/100 ft): 0.75, Sensor Depth (ft): 16972.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill | 1  | 06-25 | 21:05 | 21:55 | 06-25 | 17029.00 | 17124.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 25.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-25 | 21:55 | 22:00 | 06-25 | 17124.00 | 17124.00 | Inclination (°): 88.000, Azimuth (°): 357.640, TVD (ft): 12053.73, Dogleg (°/100 ft): 1.46, Sensor Depth (ft): 17067.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill | 1  | 06-25 | 22:00 | 22:15 | 06-25 | 17124.00 | 17145.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 25.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Slide Drill  | 2  | 06-25 | 22:15 | 22:30 | 06-25 | 17145.00 | 17170.00 | Pressure On (psi): 3850.00, Pressure Off (psi): 3400.00, Weight On Bit (klbs): 40.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 160, Toolface Type: gravity                 |
| Rotary Drill | 1  | 06-25 | 22:30 | 23:20 | 06-25 | 17170.00 | 17218.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 25.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-25 | 23:20 | 23:25 | 06-25 | 17218.00 | 17218.00 | Inclination (°): 87.300, Azimuth (°): 356.850, TVD (ft): 12057.58, Dogleg (°/100 ft): 1.12, Sensor Depth (ft): 17161.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill | 1  | 06-25 | 23:25 | 00:00 | 06-26 | 17218.00 | 17311.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 25.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |

**MWD Activities**

No Activities



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

Saturday, Jun 26 00:00 - 23:59 (Day 18 of 24)

Billing: \$4,300.00 (\$150,591.57 total)

| Drilling Summary        |          |                     |       | Drilling Parameters       |                   |
|-------------------------|----------|---------------------|-------|---------------------------|-------------------|
| Start Depth (ft)        | 17311.00 | Downhole Hours      | 24.00 | Rotating WOB (klbs)       | 25.00 - 37.00     |
| Bit Depth (ft)          | 19220.00 | Drilling Hours      | 21.42 | Sliding WOB (klbs)        | 40.00 - 50.00     |
| Bottom Hole Depth (ft)  | 19220.00 | Hours Circulating   | 0.67  | Rotating SPM              | 95.00 - 95.00     |
| Total Distance (ft)     | 1909.00  | Hours Sliding       | 10.83 | Sliding SPM               | 95.00 - 95.00     |
| Distance Rotated (ft)   | 1544.00  | Hours Rotating      | 10.58 | Motor RPM                 | 0.00 - 0.00       |
| Distance Slid (ft)      | 365.00   |                     |       | Surface RPM               | 40.00 - 40.00     |
| Inclination In          | 87.52    |                     |       | Flow Rate (gpm)           | 275.00 - 275.00   |
| Inclination Out         | 92.57    |                     |       | On Bottom Pressure (psi)  | 3850.00 - 4500.00 |
| Azimuth In              | 358.52   | % Hours Rotating    | 49%   | Off Bottom Pressure (psi) | 3350.00 - 4200.00 |
| Azimuth Out             | 1.07     | % Hours Sliding     | 51%   |                           |                   |
| AVG Total ROP (ft/h)    | 91.00    | % Distance Sliding  | 19%   |                           |                   |
| AVG Rotating ROP (ft/h) | 146.60   | % Distance Rotating | 81%   |                           |                   |
| AVG Sliding ROP (ft/h)  | 33.69    |                     |       |                           |                   |

**Personnel**

| Name                | Position            |
|---------------------|---------------------|
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

**BHA #8 - 6.75" LATERAL**

Date In: Jun 25, 2021, 6:30 Date Out: Jun 28, 2021, 22:00

| Bit Details                |         | Motor Details                     |          | Directional Comments                                                              |
|----------------------------|---------|-----------------------------------|----------|-----------------------------------------------------------------------------------|
| OD (in)                    | 6.750   | Size (in)                         | 5.0      | Flow Range: 150-350 gpm, Max Diff: 2400 psi, Max Torque: 7632 ft/lbs, Bit Runs: 3 |
| Vendor                     | REED    | Lobe/Stage                        | 6/7, 8.0 |                                                                                   |
| S/N                        | A257713 | Bend Angle                        | 1.75     |                                                                                   |
| Nozzles                    | 6x15's  | Speed (rev/gal)                   | 0.81     | MWD Comments                                                                      |
| Total Flow Area (in²)      | 1.035   | Wear Pad OD (in)                  | 5.480    | <b>POOH Reason</b><br>Total Depth/Casing Point: N/A                               |
| Drilling Hours for Day     | 21.42   | Bit Distances                     |          |                                                                                   |
| Total Drilled for Day (ft) | 1909.00 | Survey: 57.00 ft, Gamma: 42.00 ft |          |                                                                                   |
| Drilling Hours for BHA     | 42.58   |                                   |          |                                                                                   |
| Total Drilled for BHA (ft) | 3586.00 |                                   |          |                                                                                   |

**Directional Items**

| Description                                                                                                                                          | Vendor   | SN#          | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: SKC613, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 2.50, Size (in): 6.75             | REED     | A257713      | 3 1/2" REG Pin |                |         | 6.750   |              | 1.00     | 1.00           |
| <b>Mud Motor</b><br>Description: 5" 6/7 8.0 FXD @ 1.75° SLICK, Size (in): 5.00, Bend Angle (°): 1.75, Rotor Lobe: 6, Stator Lobe: 7, Stator Stage: 8 | Bico     | BPG24750143  | XT39 Box       | 3 1/2" REG Box |         | 5.000   |              | 28.23    | 29.23          |
| <b>Float Sub</b><br>Description: FLOATSUB, Material: Steel                                                                                           | GATOR    | 233054       | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.12     | 32.35          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                     | GATOR    | GT503338     | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.61     | 35.96          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                       | GATOR    | GT-51-30-544 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.78    | 66.74          |
| <b>Drill Collar</b><br>Description: NMDC, Material: Non-Magnetic, Type: Slick Drill                                                                  | GATOR    | GT-51-30-533 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.81    | 97.55          |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                        | Platinum | PPR6502      | CET43 Box      | XT39 Pin       | 2.500   | 5.000   |              | 2.90     | 100.45         |
| <b>Drill Pipe</b><br>Description: 20 STANDS DRILL PIPE, Type: Slick                                                                                  | Platinum |              | CET43 Box      | CET43 Pin      | 2.750   | 4.500   |              | 1890.39  | 1990.84        |
| <b>Agitator</b><br>Description: AGITATOR, Size (in): 5.31                                                                                            | NOV      | 178-0038 HE  | CET43 Box      | CET43 Pin      |         | 5.310   |              | 22.52    | 2013.36        |

**MWD Items**

No Items

**Directional Activities**

| Activity Type | Code | Start Date | Start Time | End Time | End Date | Start (ft) | End (ft) | Comments/Details                                                                                                                                                                             |
|---------------|------|------------|------------|----------|----------|------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rotary Drill  | 1    | 06-25      | 23:25      | 00:00    | 06-26    | 17218.00   | 17311.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 25.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey        | 46   | 06-26      | 00:00      | 00:05    | 06-26    | 17311.00   | 17311.00 | Inclination (°): 87.520, Azimuth (°): 358.520, TVD (ft): 12061.79, Dogleg (°/100 ft): 1.81, Sensor Depth (ft): 17254.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill  | 1    | 06-26      | 00:05      | 00:15    | 06-26    | 17311.00   | 17335.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 25.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Slide Drill   | 2    | 06-26      | 00:15      | 00:35    | 06-26    | 17335.00   | 17343.00 | Pressure On (psi): 3850.00, Pressure Off (psi): 3400.00, Weight On Bit (klbs): 40.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 30, Toolface Type: gravity                  |
| Rotary Drill  | 1    | 06-26      | 00:35      | 01:05    | 06-26    | 17343.00   | 17407.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 25.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey        | 46   | 06-26      | 01:05      | 01:10    | 06-26    | 17407.00   | 17407.00 | Inclination (°): 89.050, Azimuth (°): 359.840, TVD (ft): 12064.66, Dogleg (°/100 ft): 2.10, Sensor Depth (ft): 17350.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill  | 1    | 06-26      | 01:10      | 01:50    | 06-26    | 17407.00   | 17500.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 37.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey        | 46   | 06-26      | 01:50      | 01:55    | 06-26    | 17500.00   | 17500.00 | Inclination (°): 91.560, Azimuth (°): 0.100, TVD (ft): 12064.17, Dogleg (°/100 ft): 2.71, Sensor Depth (ft): 17443.00, Bit To Sensor (ft): 57.00                                             |
| Rotary Drill  | 1    | 06-26      | 01:55      | 02:15    | 06-26    | 17500.00   | 17550.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 30.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Slide Drill   | 2    | 06-26      | 02:15      | 03:15    | 06-26    | 17550.00   | 17580.00 | Pressure On (psi): 3850.00, Pressure Off (psi): 3400.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 210, Toolface Type: gravity                 |
| Rotary Drill  | 1    | 06-26      | 03:15      | 03:25    | 06-26    | 17580.00   | 17594.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 30.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey        | 46   | 06-26      | 03:25      | 03:30    | 06-26    | 17594.00   | 17594.00 | Inclination (°): 94.860, Azimuth (°): 359.580, TVD (ft): 12058.90, Dogleg (°/100 ft): 3.55, Sensor Depth (ft): 17537.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill  | 1    | 06-26      | 03:30      | 03:45    | 06-26    | 17594.00   | 17630.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 30.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Slide Drill   | 2    | 06-26      | 03:45      | 04:35    | 06-26    | 17630.00   | 17660.00 | Pressure On (psi): 3850.00, Pressure Off (psi): 3400.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 180, Toolface Type: gravity                 |
| Rotary Drill  | 1    | 06-26      | 04:35      | 04:45    | 06-26    | 17660.00   | 17689.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 30.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey        | 46   | 06-26      | 04:45      | 04:55    | 06-26    | 17689.00   | 17689.00 | Inclination (°): 93.100, Azimuth (°): 356.060, TVD (ft): 12052.31, Dogleg (°/100 ft): 4.13, Sensor Depth (ft): 17632.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill  | 1    | 06-26      | 04:55      | 05:10    | 06-26    | 17689.00   | 17715.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 30.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Slide Drill   | 2    | 06-26      | 05:10      | 05:45    | 06-26    | 17715.00   | 17737.00 | Pressure On (psi): 3850.00, Pressure Off (psi): 3400.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 120, Toolface Type: gravity                 |
| Rotary Drill  | 1    | 06-26      | 05:45      | 06:00    | 06-26    | 17737.00   | 17784.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 30.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey        | 46   | 06-26      | 06:00      | 06:05    | 06-26    | 17784.00   | 17784.00 | Inclination (°): 89.320, Azimuth (°): 354.130, TVD (ft): 12050.30, Dogleg (°/100 ft): 4.47, Sensor Depth (ft): 17727.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill  | 1    | 06-26      | 06:05      | 06:15    | 06-26    | 17784.00   | 17796.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 30.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Slide Drill   | 2    | 06-26      | 06:15      | 07:30    | 06-26    | 17796.00   | 17836.00 | Pressure On (psi): 3850.00, Pressure Off (psi): 3400.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 90, Toolface Type: gravity                  |
| Rotary Drill  | 1    | 06-26      | 07:30      | 07:50    | 06-26    | 17836.00   | 17880.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 30.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey        | 46   | 06-26      | 07:50      | 07:55    | 06-26    | 17880.00   | 17880.00 | Inclination (°): 87.780, Azimuth (°): 357.380, TVD (ft): 12052.73, Dogleg (°/100 ft): 3.75, Sensor Depth (ft): 17823.00, Bit To Sensor (ft): 57.00                                           |

|              |    |       |       |       |       |          |          |                                                                                                                                                                                              |
|--------------|----|-------|-------|-------|-------|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rotary Drill | 1  | 06-26 | 07:55 | 08:35 | 06-26 | 17880.00 | 17976.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 30.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-26 | 08:35 | 08:40 | 06-26 | 17976.00 | 17976.00 | Inclination (°): 89.050, Azimuth (°): 357.200, TVD (ft): 12055.39, Dogleg (°/100 ft): 1.34, Sensor Depth (ft): 17919.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill | 1  | 06-26 | 08:40 | 08:45 | 06-26 | 17976.00 | 17981.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 30.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Slide Drill  | 2  | 06-26 | 08:45 | 09:50 | 06-26 | 17981.00 | 18016.00 | Pressure On (psi): 3850.00, Pressure Off (psi): 3400.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 90, Toolface Type: gravity                  |
| Rotary Drill | 1  | 06-26 | 09:50 | 10:05 | 06-26 | 18016.00 | 18071.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 30.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-26 | 10:05 | 10:10 | 06-26 | 18071.00 | 18071.00 | Inclination (°): 90.420, Azimuth (°): 2.480, TVD (ft): 12055.83, Dogleg (°/100 ft): 5.74, Sensor Depth (ft): 18014.00, Bit To Sensor (ft): 57.00                                             |
| Rotary Drill | 1  | 06-26 | 10:10 | 10:40 | 06-26 | 18071.00 | 18167.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 30.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-26 | 10:40 | 10:50 | 06-26 | 18167.00 | 18167.00 | Inclination (°): 93.800, Azimuth (°): 2.740, TVD (ft): 12052.29, Dogleg (°/100 ft): 3.53, Sensor Depth (ft): 18110.00, Bit To Sensor (ft): 57.00                                             |
| Slide Drill  | 2  | 06-26 | 10:50 | 11:40 | 06-26 | 18167.00 | 18207.00 | Pressure On (psi): 3850.00, Pressure Off (psi): 3400.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 180, Toolface Type: gravity                 |
| Rotary Drill | 1  | 06-26 | 11:40 | 12:05 | 06-26 | 18207.00 | 18262.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 30.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-26 | 12:05 | 12:10 | 06-26 | 18262.00 | 18262.00 | Inclination (°): 92.310, Azimuth (°): 358.790, TVD (ft): 12047.23, Dogleg (°/100 ft): 4.44, Sensor Depth (ft): 18205.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill | 1  | 06-26 | 12:10 | 12:15 | 06-26 | 18262.00 | 18272.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 30.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Slide Drill  | 2  | 06-26 | 12:15 | 13:05 | 06-26 | 18272.00 | 18312.00 | Pressure On (psi): 3850.00, Pressure Off (psi): 3400.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 180, Toolface Type: gravity                 |
| Rotary Drill | 1  | 06-26 | 13:05 | 13:25 | 06-26 | 18312.00 | 18358.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 30.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-26 | 13:25 | 13:30 | 06-26 | 18358.00 | 18358.00 | Inclination (°): 90.460, Azimuth (°): 358.870, TVD (ft): 12044.91, Dogleg (°/100 ft): 1.93, Sensor Depth (ft): 18301.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill | 1  | 06-26 | 13:30 | 13:35 | 06-26 | 18358.00 | 18370.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 30.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Slide Drill  | 2  | 06-26 | 13:35 | 14:10 | 06-26 | 18370.00 | 18400.00 | Pressure On (psi): 3850.00, Pressure Off (psi): 3400.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 150, Toolface Type: gravity                 |
| Rotary Drill | 1  | 06-26 | 14:10 | 14:30 | 06-26 | 18400.00 | 18452.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 30.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-26 | 14:30 | 14:35 | 06-26 | 18452.00 | 18452.00 | Inclination (°): 88.260, Azimuth (°): 359.310, TVD (ft): 12045.96, Dogleg (°/100 ft): 2.39, Sensor Depth (ft): 18395.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill | 1  | 06-26 | 14:35 | 15:20 | 06-26 | 18452.00 | 18548.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 30.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-26 | 15:20 | 15:25 | 06-26 | 18548.00 | 18548.00 | Inclination (°): 86.770, Azimuth (°): 357.910, TVD (ft): 12050.12, Dogleg (°/100 ft): 2.13, Sensor Depth (ft): 18491.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill | 1  | 06-26 | 15:25 | 15:55 | 06-26 | 18548.00 | 18642.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 30.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-26 | 15:55 | 16:00 | 06-26 | 18642.00 | 18642.00 | Inclination (°): 88.040, Azimuth (°): 356.590, TVD (ft): 12054.37, Dogleg (°/100 ft): 1.95, Sensor Depth (ft): 18585.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill | 1  | 06-26 | 16:00 | 16:05 | 06-26 | 18642.00 | 18652.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 30.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Slide Drill  | 2  | 06-26 | 16:05 | 17:20 | 06-26 | 18652.00 | 18692.00 | Pressure On (psi): 3850.00, Pressure Off (psi): 3400.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 100, Toolface Type: gravity                 |

|              |    |       |       |       |       |          |          |                                                                                                                                                                                              |
|--------------|----|-------|-------|-------|-------|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rotary Drill | 1  | 06-26 | 17:20 | 17:40 | 06-26 | 18692.00 | 18738.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 30.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-26 | 17:40 | 17:45 | 06-26 | 18738.00 | 18738.00 | Inclination (°): 87.380, Azimuth (°): 359.310, TVD (ft): 12058.21, Dogleg (°/100 ft): 2.91, Sensor Depth (ft): 18681.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill | 1  | 06-26 | 17:45 | 18:20 | 06-26 | 18738.00 | 18831.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-26 | 18:20 | 18:25 | 06-26 | 18831.00 | 18831.00 | Inclination (°): 87.430, Azimuth (°): 359.660, TVD (ft): 12062.42, Dogleg (°/100 ft): 0.38, Sensor Depth (ft): 18774.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill | 1  | 06-26 | 18:25 | 19:00 | 06-26 | 18831.00 | 18927.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-26 | 19:00 | 19:05 | 06-26 | 18927.00 | 18927.00 | Inclination (°): 89.410, Azimuth (°): 0.190, TVD (ft): 12065.07, Dogleg (°/100 ft): 2.14, Sensor Depth (ft): 18870.00, Bit To Sensor (ft): 57.00                                             |
| Rotary Drill | 1  | 06-26 | 19:05 | 19:15 | 06-26 | 18927.00 | 18950.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Slide Drill  | 2  | 06-26 | 19:15 | 19:45 | 06-26 | 18950.00 | 18960.00 | Pressure On (psi): 3850.00, Pressure Off (psi): 3400.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 210, Toolface Type: gravity                 |
| Rotary Drill | 1  | 06-26 | 19:45 | 20:10 | 06-26 | 18960.00 | 19023.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-26 | 20:10 | 20:15 | 06-26 | 19023.00 | 19023.00 | Inclination (°): 90.640, Azimuth (°): 0.810, TVD (ft): 12065.03, Dogleg (°/100 ft): 1.43, Sensor Depth (ft): 18966.00, Bit To Sensor (ft): 57.00                                             |
| Rotary Drill | 1  | 06-26 | 20:15 | 20:25 | 06-26 | 19023.00 | 19040.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Circulating  | 3  | 06-26 | 20:25 | 21:05 | 06-26 |          |          | Circulate while working on HPU breaker                                                                                                                                                       |
| Slide Drill  | 2  | 06-26 | 21:05 | 21:30 | 06-26 | 19040.00 | 19050.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 4200.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 210, Toolface Type: gravity                 |
| Rotary Drill | 1  | 06-26 | 21:30 | 21:55 | 06-26 | 19050.00 | 19117.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-26 | 21:55 | 22:00 | 06-26 | 19117.00 | 19117.00 | Inclination (°): 92.130, Azimuth (°): 3.090, TVD (ft): 12062.75, Dogleg (°/100 ft): 2.90, Sensor Depth (ft): 19060.00, Bit To Sensor (ft): 57.00                                             |
| Rotary Drill | 1  | 06-26 | 22:00 | 22:10 | 06-26 | 19117.00 | 19130.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Slide Drill  | 2  | 06-26 | 22:10 | 23:30 | 06-26 | 19130.00 | 19160.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 4200.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 225, Toolface Type: gravity                 |
| Rotary Drill | 1  | 06-26 | 23:30 | 23:45 | 06-26 | 19160.00 | 19211.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-26 | 23:45 | 23:50 | 06-26 | 19211.00 | 19211.00 | Inclination (°): 92.570, Azimuth (°): 1.070, TVD (ft): 12058.90, Dogleg (°/100 ft): 2.20, Sensor Depth (ft): 19154.00, Bit To Sensor (ft): 57.00                                             |
| Rotary Drill | 1  | 06-26 | 23:50 | 00:00 | 06-27 | 19211.00 | 19220.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |

**MWD Activities**

No Activities



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

Sunday, Jun 27 00:00 - 23:59 (Day 19 of 24)

Billing: \$4,300.00 (\$150,591.57 total)

| Drilling Summary        |          |                     |       | Drilling Parameters       |                   |
|-------------------------|----------|---------------------|-------|---------------------------|-------------------|
| Start Depth (ft)        | 19220.00 | Downhole Hours      | 24.00 | Rotating WOB (klbs)       | 35.00 - 35.00     |
| Bit Depth (ft)          | 20310.00 | Drilling Hours      | 14.42 | Sliding WOB (klbs)        | 50.00 - 50.00     |
| Bottom Hole Depth (ft)  | 20310.00 | Hours Circulating   | 7.17  | Rotating SPM              | 95.00 - 95.00     |
| Total Distance (ft)     | 1090.00  | Hours Sliding       | 8.67  | Sliding SPM               | 95.00 - 95.00     |
| Distance Rotated (ft)   | 834.00   | Hours Rotating      | 5.75  | Motor RPM                 | 0.00 - 0.00       |
| Distance Slid (ft)      | 256.00   |                     |       | Surface RPM               | 40.00 - 40.00     |
| Inclination In          | 90.07    |                     |       | Flow Rate (gpm)           | 275.00 - 275.00   |
| Inclination Out         | 94.42    |                     |       | On Bottom Pressure (psi)  | 4300.00 - 4500.00 |
| Azimuth In              | 358.87   | % Hours Rotating    | 40%   | Off Bottom Pressure (psi) | 3350.00 - 4200.00 |
| Azimuth Out             | 359.40   | % Hours Sliding     | 60%   |                           |                   |
| AVG Total ROP (ft/h)    | 75.36    | % Distance Sliding  | 23%   |                           |                   |
| AVG Rotating ROP (ft/h) | 142.48   | % Distance Rotating | 77%   |                           |                   |
| AVG Sliding ROP (ft/h)  | 29.54    |                     |       |                           |                   |

**Personnel**

| Name                | Position            |
|---------------------|---------------------|
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

**BHA #8 - 6.75" LATERAL**

Date In: Jun 25, 2021, 6:30 Date Out: Jun 28, 2021, 22:00

| Bit Details                |         | Motor Details                     |          | Directional Comments                                                              |
|----------------------------|---------|-----------------------------------|----------|-----------------------------------------------------------------------------------|
| OD (in)                    | 6.750   | Size (in)                         | 5.0      | Flow Range: 150-350 gpm, Max Diff: 2400 psi, Max Torque: 7632 ft/lbs, Bit Runs: 3 |
| Vendor                     | REED    | Lobe/Stage                        | 6/7, 8.0 |                                                                                   |
| S/N                        | A257713 | Bend Angle                        | 1.75     |                                                                                   |
| Nozzles                    | 6x15's  | Speed (rev/gal)                   | 0.81     | MWD Comments                                                                      |
| Total Flow Area (in²)      | 1.035   | Wear Pad OD (in)                  | 5.480    |                                                                                   |
| Drilling Hours for Day     | 14.42   | Bit Distances                     |          |                                                                                   |
| Total Drilled for Day (ft) | 1090.00 | Survey: 57.00 ft, Gamma: 42.00 ft |          | POOH Reason                                                                       |
| Drilling Hours for BHA     | 42.58   |                                   |          |                                                                                   |
| Total Drilled for BHA (ft) | 3586.00 |                                   |          |                                                                                   |

**Directional Items**

| Description                                                                                                                                          | Vendor   | SN#          | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: SKC613, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 2.50, Size (in): 6.75             | REED     | A257713      | 3 1/2" REG Pin |                |         | 6.750   |              | 1.00     | 1.00           |
| <b>Mud Motor</b><br>Description: 5" 6/7 8.0 FXD @ 1.75° SLICK, Size (in): 5.00, Bend Angle (°): 1.75, Rotor Lobe: 6, Stator Lobe: 7, Stator Stage: 8 | Bico     | BPG24750143  | XT39 Box       | 3 1/2" REG Box |         | 5.000   |              | 28.23    | 29.23          |
| <b>Float Sub</b><br>Description: FLOATSUB, Material: Steel                                                                                           | GATOR    | 233054       | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.12     | 32.35          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                     | GATOR    | GT503338     | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.61     | 35.96          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                       | GATOR    | GT-51-30-544 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.78    | 66.74          |
| <b>Drill Collar</b><br>Description: NMDC, Material: Non-Magnetic, Type: Slick Drill                                                                  | GATOR    | GT-51-30-533 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.81    | 97.55          |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                        | Platinum | PPR6502      | CET43 Box      | XT39 Pin       | 2.500   | 5.000   |              | 2.90     | 100.45         |
| <b>Drill Pipe</b><br>Description: 20 STANDS DRILL PIPE, Type: Slick                                                                                  | Platinum |              | CET43 Box      | CET43 Pin      | 2.750   | 4.500   |              | 1890.39  | 1990.84        |
| <b>Agitator</b><br>Description: AGITATOR, Size (in): 5.31                                                                                            | NOV      | 178-0038 HE  | CET43 Box      | CET43 Pin      |         | 5.310   |              | 22.52    | 2013.36        |

**MWD Items**

No Items

**Directional Activities**

| Activity Type | Code | Start Date | Start Time | End Time | End Date | Start (ft) | End (ft) | Comments/Details                                                                                                                                                                             |
|---------------|------|------------|------------|----------|----------|------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rotary Drill  | 1    | 06-26      | 23:50      | 00:00    | 06-27    | 19211.00   | 19220.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Slide Drill   | 2    | 06-27      | 00:00      | 00:40    | 06-27    | 19220.00   | 19236.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 4200.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 210, Toolface Type: gravity                 |
| Rotary Drill  | 1    | 06-27      | 00:40      | 01:05    | 06-27    | 19236.00   | 19306.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey        | 46   | 06-27      | 01:05      | 01:10    | 06-27    | 19306.00   | 19306.00 | Inclination (°): 90.070, Azimuth (°): 358.870, TVD (ft): 12056.71, Dogleg (°/100 ft): 3.50, Sensor Depth (ft): 19249.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill  | 1    | 06-27      | 01:10      | 01:45    | 06-27    | 19306.00   | 19400.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey        | 46   | 06-27      | 01:45      | 01:50    | 06-27    | 19400.00   | 19400.00 | Inclination (°): 92.750, Azimuth (°): 1.250, TVD (ft): 12054.40, Dogleg (°/100 ft): 3.81, Sensor Depth (ft): 19343.00, Bit To Sensor (ft): 57.00                                             |
| Rotary Drill  | 1    | 06-27      | 01:50      | 02:00    | 06-27    | 19400.00   | 19415.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Slide Drill   | 2    | 06-27      | 02:00      | 03:15    | 06-27    | 19415.00   | 19440.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 4200.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 225, Toolface Type: gravity                 |
| Rotary Drill  | 1    | 06-27      | 03:15      | 03:35    | 06-27    | 19440.00   | 19495.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey        | 46   | 06-27      | 03:35      | 03:45    | 06-27    | 19495.00   | 19495.00 | Inclination (°): 93.630, Azimuth (°): 358.870, TVD (ft): 12049.11, Dogleg (°/100 ft): 2.67, Sensor Depth (ft): 19438.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill  | 1    | 06-27      | 03:45      | 04:00    | 06-27    | 19495.00   | 19510.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Slide Drill   | 2    | 06-27      | 04:00      | 05:05    | 06-27    | 19510.00   | 19535.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 4200.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 180, Toolface Type: gravity                 |
| Rotary Drill  | 1    | 06-27      | 05:05      | 05:20    | 06-27    | 19535.00   | 19590.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey        | 46   | 06-27      | 05:20      | 05:30    | 06-27    | 19590.00   | 19590.00 | Inclination (°): 89.100, Azimuth (°): 355.710, TVD (ft): 12046.85, Dogleg (°/100 ft): 5.81, Sensor Depth (ft): 19533.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill  | 1    | 06-27      | 05:30      | 05:45    | 06-27    | 19590.00   | 19605.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Slide Drill   | 2    | 06-27      | 05:45      | 06:50    | 06-27    | 19605.00   | 19645.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 4200.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 90, Toolface Type: gravity                  |
| Rotary Drill  | 1    | 06-27      | 06:50      | 07:10    | 06-27    | 19645.00   | 19685.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey        | 46   | 06-27      | 07:10      | 07:15    | 06-27    | 19685.00   | 19685.00 | Inclination (°): 86.810, Azimuth (°): 357.470, TVD (ft): 12050.24, Dogleg (°/100 ft): 3.04, Sensor Depth (ft): 19628.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill  | 1    | 06-27      | 07:15      | 07:25    | 06-27    | 19685.00   | 19706.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Slide Drill   | 2    | 06-27      | 07:25      | 08:00    | 06-27    | 19706.00   | 19721.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 4200.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 50, Toolface Type: gravity                  |
| Rotary Drill  | 1    | 06-27      | 08:00      | 08:20    | 06-27    | 19721.00   | 19779.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey        | 46   | 06-27      | 08:20      | 08:25    | 06-27    | 19779.00   | 19779.00 | Inclination (°): 87.820, Azimuth (°): 0.450, TVD (ft): 12054.64, Dogleg (°/100 ft): 3.34, Sensor Depth (ft): 19722.00, Bit To Sensor (ft): 57.00                                             |
| Rotary Drill  | 1    | 06-27      | 08:25      | 08:30    | 06-27    | 19779.00   | 19789.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Slide Drill   | 2    | 06-27      | 08:30      | 09:15    | 06-27    | 19789.00   | 19814.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 4200.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 20, Toolface Type: gravity                  |

|              |    |       |       |       |       |          |          |                                                                                                                                                                                              |
|--------------|----|-------|-------|-------|-------|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rotary Drill | 1  | 06-27 | 09:15 | 09:35 | 06-27 | 19814.00 | 19874.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-27 | 09:35 | 09:40 | 06-27 | 19874.00 | 19874.00 | Inclination (°): 90.070, Azimuth (°): 1.250, TVD (ft): 12056.39, Dogleg (°/100 ft): 2.51, Sensor Depth (ft): 19817.00, Bit To Sensor (ft): 57.00                                             |
| Slide Drill  | 2  | 06-27 | 09:40 | 10:50 | 06-27 | 19874.00 | 19919.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 4200.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 0, Toolface Type: gravity                   |
| Rotary Drill | 1  | 06-27 | 10:50 | 11:15 | 06-27 | 19919.00 | 19969.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-27 | 11:15 | 11:20 | 06-27 | 19969.00 | 19969.00 | Inclination (°): 93.930, Azimuth (°): 359.660, TVD (ft): 12053.08, Dogleg (°/100 ft): 4.39, Sensor Depth (ft): 19912.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill | 1  | 06-27 | 11:20 | 11:55 | 06-27 | 19969.00 | 20063.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-27 | 11:55 | 12:05 | 06-27 | 20063.00 | 20063.00 | Inclination (°): 96.570, Azimuth (°): 357.820, TVD (ft): 12044.48, Dogleg (°/100 ft): 3.42, Sensor Depth (ft): 20006.00, Bit To Sensor (ft): 57.00                                           |
| Slide Drill  | 2  | 06-27 | 12:05 | 13:30 | 06-27 | 20063.00 | 20108.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 4200.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 145, Toolface Type: gravity                 |
| Rotary Drill | 1  | 06-27 | 13:30 | 13:45 | 06-27 | 20108.00 | 20157.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-27 | 13:45 | 13:50 | 06-27 | 20157.00 | 20157.00 | Inclination (°): 95.340, Azimuth (°): 359.140, TVD (ft): 12034.72, Dogleg (°/100 ft): 1.91, Sensor Depth (ft): 20100.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill | 1  | 06-27 | 13:50 | 14:05 | 06-27 | 20157.00 | 20177.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Slide Drill  | 2  | 06-27 | 14:05 | 14:45 | 06-27 | 20177.00 | 20197.00 | Pressure On (psi): 4500.00, Pressure Off (psi): 4200.00, Weight On Bit (klbs): 50.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95, Toolface: 180, Toolface Type: gravity                 |
| Rotary Drill | 1  | 06-27 | 14:45 | 15:05 | 06-27 | 20197.00 | 20250.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Survey       | 46 | 06-27 | 15:05 | 15:10 | 06-27 | 20250.00 | 20250.00 | Inclination (°): 94.420, Azimuth (°): 359.400, TVD (ft): 12026.81, Dogleg (°/100 ft): 1.03, Sensor Depth (ft): 20193.00, Bit To Sensor (ft): 57.00                                           |
| Rotary Drill | 1  | 06-27 | 15:10 | 15:35 | 06-27 | 20250.00 | 20310.00 | Pressure On (psi): 4300.00, Pressure Off (psi): 3350.00, Weight On Bit (klbs): 35.00, Surface RPM: 40, Surface Torque (ft lbf): 16000.00, Flow Rate (gpm): 275.00, Strokes Per Minute: 95.00 |
| Circulating  | 3  | 06-27 | 15:35 | 22:45 | 06-27 |          |          | Circulate, Condition mud, pump slug                                                                                                                                                          |
| Pooh         | 7  | 06-27 | 22:45 | 21:15 | 06-28 |          |          | POOH TD well, L/D DP                                                                                                                                                                         |

**MWD Activities**

No Activities



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
|                                 |                                                     | <b>Company Man</b>                                    |

Monday, Jun 28 00:00 - 23:59 (Day 20 of 24)

Billing: \$4,300.00 (\$150,591.57 total)

| Drilling Summary               |      |                            | Drilling Parameters |                                  |
|--------------------------------|------|----------------------------|---------------------|----------------------------------|
| <b>Start Depth (ft)</b>        |      | <b>Downhole Hours</b>      | 22.00               | <b>Rotating WOB (klbs)</b>       |
| <b>Bit Depth (ft)</b>          |      | <b>Drilling Hours</b>      | 0.00                | <b>Sliding WOB (klbs)</b>        |
| <b>Bottom Hole Depth (ft)</b>  |      | <b>Hours Circulating</b>   | 0.00                | <b>Rotating SPM</b>              |
| <b>Total Distance (ft)</b>     | 0.00 | <b>Hours Sliding</b>       | 0.00                | <b>Sliding SPM</b>               |
| <b>Distance Rotated (ft)</b>   | 0.00 | <b>Hours Rotating</b>      | 0.00                | <b>Motor RPM</b>                 |
| <b>Distance Slid (ft)</b>      | 0.00 |                            |                     | 0.00 - 0.00                      |
| <b>Inclination In</b>          |      |                            |                     | <b>Surface RPM</b>               |
| <b>Inclination Out</b>         |      |                            |                     | <b>Flow Rate (gpm)</b>           |
| <b>Azimuth In</b>              |      | <b>% Hours Rotating</b>    |                     | <b>On Bottom Pressure (psi)</b>  |
| <b>Azimuth Out</b>             |      | <b>% Hours Sliding</b>     |                     | <b>Off Bottom Pressure (psi)</b> |
| <b>AVG Total ROP (ft/h)</b>    | 0.00 | <b>% Distance Sliding</b>  |                     |                                  |
| <b>AVG Rotating ROP (ft/h)</b> | 0.00 | <b>% Distance Rotating</b> |                     |                                  |
| <b>AVG Sliding ROP (ft/h)</b>  | 0.00 |                            |                     |                                  |

**Personnel**

| Name                | Position            |
|---------------------|---------------------|
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

**BHA #8 - 6.75" LATERAL**

Date In: Jun 25, 2021, 6:30 Date Out: Jun 28, 2021, 22:00

| Bit Details                |         | Motor Details                     |          | Directional Comments                                                              |
|----------------------------|---------|-----------------------------------|----------|-----------------------------------------------------------------------------------|
| OD (in)                    | 6.750   | Size (in)                         | 5.0      | Flow Range: 150-350 gpm, Max Diff: 2400 psi, Max Torque: 7632 ft/lbs, Bit Runs: 3 |
| Vendor                     | REED    | Lobe/Stage                        | 6/7, 8.0 |                                                                                   |
| S/N                        | A257713 | Bend Angle                        | 1.75     |                                                                                   |
| Nozzles                    | 6x15's  | Speed (rev/gal)                   | 0.81     | MWD Comments                                                                      |
| Total Flow Area (in²)      | 1.035   | Wear Pad OD (in)                  | 5.480    |                                                                                   |
| Drilling Hours for Day     | 0.00    | Bit Distances                     |          |                                                                                   |
| Total Drilled for Day (ft) |         | Survey: 57.00 ft, Gamma: 42.00 ft |          |                                                                                   |
| Drilling Hours for BHA     | 42.58   |                                   |          |                                                                                   |
| Total Drilled for BHA (ft) | 3586.00 | POOH Reason                       |          |                                                                                   |
|                            |         | Total Depth/Casing Point: N/A     |          |                                                                                   |

**Directional Items**

| Description                                                                                                                                          | Vendor   | SN#          | Top Conn       | Btm Conn       | ID (in) | OD (in) | Fn Len. (ft) | Len (ft) | Aggr. Len (ft) |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|----------------|----------------|---------|---------|--------------|----------|----------------|
| <b>Bit (Fixed Cutter)</b><br>Description: SKC613, Type: PDC (Polycrystalline Diamond Compacts), Gauge Length (in): 2.50, Size (in): 6.75             | REED     | A257713      | 3 1/2" REG Pin |                |         | 6.750   |              | 1.00     | 1.00           |
| <b>Mud Motor</b><br>Description: 5" 6/7 8.0 FXD @ 1.75° SLICK, Size (in): 5.00, Bend Angle (°): 1.75, Rotor Lobe: 6, Stator Lobe: 7, Stator Stage: 8 | Bico     | BPG24750143  | XT39 Box       | 3 1/2" REG Box |         | 5.000   |              | 28.23    | 29.23          |
| <b>Float Sub</b><br>Description: FLOATSUB, Material: Steel                                                                                           | GATOR    | 233054       | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.12     | 32.35          |
| <b>UBHO Sub</b><br>Description: UBHO Sub, Material: Non-Magnetic                                                                                     | GATOR    | GT503338     | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 3.61     | 35.96          |
| <b>Drill Collar</b><br>Description: NMDC (MWD Tool), Material: Non-Magnetic, Type: Slick Drill                                                       | GATOR    | GT-51-30-544 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.78    | 66.74          |
| <b>Drill Collar</b><br>Description: NMDC, Material: Non-Magnetic, Type: Slick Drill                                                                  | GATOR    | GT-51-30-533 | XT39 Box       | XT39 Pin       | 2.750   | 5.000   |              | 30.81    | 97.55          |
| <b>Crossover Sub</b><br>Description: X-O SUB, Material: Steel                                                                                        | Platinum | PPR6502      | CET43 Box      | XT39 Pin       | 2.500   | 5.000   |              | 2.90     | 100.45         |
| <b>Drill Pipe</b><br>Description: 20 STANDS DRILL PIPE, Type: Slick                                                                                  | Platinum |              | CET43 Box      | CET43 Pin      | 2.750   | 4.500   |              | 1890.39  | 1990.84        |
| <b>Agitator</b><br>Description: AGITATOR, Size (in): 5.31                                                                                            | NOV      | 178-0038 HE  | CET43 Box      | CET43 Pin      |         | 5.310   |              | 22.52    | 2013.36        |

**MWD Items**

No Items

**Directional Activities**

| Activity Type         | Code | Start Date | Start Time | End Time | End Date | Start (ft) | End (ft) | Comments/Details     |
|-----------------------|------|------------|------------|----------|----------|------------|----------|----------------------|
| Pooh                  | 7    | 06-27      | 22:45      | 21:15    | 06-28    |            |          | POOH TD well, L/D DP |
| Lay Down BHA          | 65   | 06-28      | 21:15      | 22:00    | 06-28    |            |          | L/D BHA #8           |
| Standby               | 15   | 06-28      | 22:00      | 04:00    | 06-29    |            |          | Standby / CASING OPS |
| <b>MWD Activities</b> |      |            |            |          |          |            |          |                      |
| No Activities         |      |            |            |          |          |            |          |                      |

|                                                                                   |                                 |                                                     |                      |                                                       |
|-----------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------|----------------------|-------------------------------------------------------|
|  | <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          |                      | <b>Rig Name</b><br>Nabors X50                         |
|                                                                                   | <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           |                      | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
|                                                                                   | <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea | <b>Company Man</b>                                    |

Tuesday, Jun 29 00:00 - 23:59 (Day 21 of 24)

Billing: \$3,700.00 (\$150,591.57 total)

| Drilling Summary        |      |                     |  | Drilling Parameters |                           |
|-------------------------|------|---------------------|--|---------------------|---------------------------|
| Start Depth (ft)        |      | Downhole Hours      |  | 0.00                | Rotating WOB (klbs)       |
| Bit Depth (ft)          |      | Drilling Hours      |  | 0.00                | Sliding WOB (klbs)        |
| Bottom Hole Depth (ft)  |      | Hours Circulating   |  | 0.00                | Rotating SPM              |
| Total Distance (ft)     | 0.00 | Hours Sliding       |  | 0.00                | Sliding SPM               |
| Distance Rotated (ft)   | 0.00 | Hours Rotating      |  | 0.00                | Motor RPM                 |
| Distance Slid (ft)      | 0.00 |                     |  |                     | Surface RPM               |
| Inclination In          |      |                     |  |                     | Flow Rate (gpm)           |
| Inclination Out         |      |                     |  |                     | On Bottom Pressure (psi)  |
| Azimuth In              |      | % Hours Rotating    |  |                     | Off Bottom Pressure (psi) |
| Azimuth Out             |      | % Hours Sliding     |  |                     |                           |
| AVG Total ROP (ft/h)    | 0.00 | % Distance Sliding  |  |                     |                           |
| AVG Rotating ROP (ft/h) | 0.00 | % Distance Rotating |  |                     |                           |
| AVG Sliding ROP (ft/h)  | 0.00 |                     |  |                     |                           |

| Personnel           |                     |
|---------------------|---------------------|
| Name                | Position            |
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

No BHAs

| Directional Activities |      |            |            |          |          |            |          |                      |
|------------------------|------|------------|------------|----------|----------|------------|----------|----------------------|
| Activity Type          | Code | Start Date | Start Time | End Time | End Date | Start (ft) | End (ft) | Comments/Details     |
| Standby                | 15   | 06-28      | 22:00      | 04:00    | 06-29    |            |          | Standby / CASING OPS |
| Standby                | 15   | 06-29      | 04:00      | 04:30    | 06-30    |            |          | Standby / Casing ops |

| MWD Activities |
|----------------|
| No Activities  |



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
| <b>Company Man</b>              |                                                     |                                                       |

Wednesday, Jun 30 00:00 - 23:59 (Day 22 of 24)

Billing: \$3,700.00 (\$150,591.57 total)

**Drilling Summary**

|                                |                          |                                  |                            |
|--------------------------------|--------------------------|----------------------------------|----------------------------|
| <b>Start Depth (ft)</b>        | <b>Downhole Hours</b>    | 0.00                             | <b>Rotating WOB (klbs)</b> |
| <b>Bit Depth (ft)</b>          | <b>Drilling Hours</b>    | 0.00                             | <b>Sliding WOB (klbs)</b>  |
| <b>Bottom Hole Depth (ft)</b>  | <b>Hours Circulating</b> | 0.00                             | <b>Rotating SPM</b>        |
| <b>Total Distance (ft)</b>     | 0.00                     | <b>Hours Sliding</b>             | 0.00                       |
| <b>Distance Rotated (ft)</b>   | 0.00                     | <b>Hours Rotating</b>            | 0.00                       |
| <b>Distance Slid (ft)</b>      | 0.00                     | <b>Motor RPM</b>                 | -                          |
| <b>Inclination In</b>          |                          | <b>Surface RPM</b>               |                            |
| <b>Inclination Out</b>         |                          | <b>Flow Rate (gpm)</b>           |                            |
| <b>Azimuth In</b>              | <b>% Hours Rotating</b>  | <b>On Bottom Pressure (psi)</b>  |                            |
| <b>Azimuth Out</b>             | <b>% Hours Sliding</b>   | <b>Off Bottom Pressure (psi)</b> |                            |
| <b>AVG Total ROP (ft/h)</b>    | 0.00                     | <b>% Distance Sliding</b>        |                            |
| <b>AVG Rotating ROP (ft/h)</b> | 0.00                     | <b>% Distance Rotating</b>       |                            |
| <b>AVG Sliding ROP (ft/h)</b>  | 0.00                     |                                  |                            |

**Personnel**

| <b>Name</b>         | <b>Position</b>     |
|---------------------|---------------------|
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

**No BHAs****Directional Activities**

| <b>Activity Type</b> | <b>Code</b> | <b>Start Date</b> | <b>Start Time</b> | <b>End Time</b> | <b>End Date</b> | <b>Start (ft)</b> | <b>End (ft)</b> | <b>Comments/Details</b>                                    |
|----------------------|-------------|-------------------|-------------------|-----------------|-----------------|-------------------|-----------------|------------------------------------------------------------|
| Standby              | 15          | 06-29             | 04:00             | 04:30           | 06-30           |                   |                 | Standby / Casing ops                                       |
| Standby              | 15          | 06-30             | 04:30             | 04:30           | 07-02           |                   |                 | Standby while casing ops, skidding rig. Rig release @ 0430 |

**MWD Activities**

No Activities



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
| <b>Company Man</b>              |                                                     |                                                       |

Thursday, Jul 01 00:00 - 23:59 (Day 23 of 24)

Billing: \$11,041.57 (\$150,591.57 total)

| Drilling Summary        |      |  | Drilling Parameters |      |                           |
|-------------------------|------|--|---------------------|------|---------------------------|
| Start Depth (ft)        |      |  | Downhole Hours      | 0.00 | Rotating WOB (klbs)       |
| Bit Depth (ft)          |      |  | Drilling Hours      |      | Sliding WOB (klbs)        |
| Bottom Hole Depth (ft)  |      |  | Hours Circulating   |      | Rotating SPM              |
| Total Distance (ft)     |      |  | Hours Sliding       |      | Sliding SPM               |
| Distance Rotated (ft)   |      |  | Hours Rotating      |      | Motor RPM                 |
| Distance Slid (ft)      |      |  |                     |      | Surface RPM               |
| Inclination In          |      |  |                     |      | Flow Rate (gpm)           |
| Inclination Out         |      |  |                     |      | On Bottom Pressure (psi)  |
| Azimuth In              |      |  | % Hours Rotating    |      | Off Bottom Pressure (psi) |
| Azimuth Out             |      |  | % Hours Sliding     |      |                           |
| AVG Total ROP (ft/h)    | 0.00 |  | % Distance Sliding  |      |                           |
| AVG Rotating ROP (ft/h) | 0.00 |  | % Distance Rotating |      |                           |
| AVG Sliding ROP (ft/h)  | 0.00 |  |                     |      |                           |

**Personnel**

| Name                | Position            |
|---------------------|---------------------|
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

**No BHAs****Directional Activities**

| Activity Type | Code | Start Date | Start Time | End Time | End Date | Start (ft) | End (ft) | Comments/Details                                           |
|---------------|------|------------|------------|----------|----------|------------|----------|------------------------------------------------------------|
| Standby       | 15   | 06-30      | 04:30      | 04:30    | 07-02    |            |          | Standby while casing ops, skidding rig. Rig release @ 0430 |

**MWD Activities**

No Activities



|                                 |                                                     |                                                       |
|---------------------------------|-----------------------------------------------------|-------------------------------------------------------|
| <b>Job Number</b><br>WT-21-069  | <b>Operator</b><br>Advance Energy Partners          | <b>Rig Name</b><br>Nabors X50                         |
| <b>Start Date</b><br>2021-06-01 | <b>Well Name</b><br>Dagger State Com 804H           | <b>Legal Well Name   AFE</b><br>Dagger State Com 804H |
| <b>Play</b><br>Delaware Basin   | <b>State/Province and Country</b><br>New Mexico, US | <b>County</b><br>Lea                                  |
| <b>Company Man</b>              |                                                     |                                                       |

Friday, Jul 02 00:00 - 23:59 (Day 24 of 24)

Billing: N/A (\$150,591.57 total)

| Drilling Summary        |      |                     |      | Drilling Parameters       |   |
|-------------------------|------|---------------------|------|---------------------------|---|
| Start Depth (ft)        |      | Downhole Hours      | 0.00 | Rotating WOB (klbs)       |   |
| Bit Depth (ft)          |      | Drilling Hours      | 0.00 | Sliding WOB (klbs)        |   |
| Bottom Hole Depth (ft)  |      | Hours Circulating   | 0.00 | Rotating SPM              |   |
| Total Distance (ft)     | 0.00 | Hours Sliding       | 0.00 | Sliding SPM               |   |
| Distance Rotated (ft)   | 0.00 | Hours Rotating      | 0.00 | Motor RPM                 | - |
| Distance Slid (ft)      | 0.00 |                     |      | Surface RPM               |   |
| Inclination In          |      |                     |      | Flow Rate (gpm)           |   |
| Inclination Out         |      |                     |      | On Bottom Pressure (psi)  |   |
| Azimuth In              |      | % Hours Rotating    |      | Off Bottom Pressure (psi) |   |
| Azimuth Out             |      | % Hours Sliding     |      |                           |   |
| AVG Total ROP (ft/h)    | 0.00 | % Distance Sliding  |      |                           |   |
| AVG Rotating ROP (ft/h) | 0.00 | % Distance Rotating |      |                           |   |
| AVG Sliding ROP (ft/h)  | 0.00 |                     |      |                           |   |

**Personnel**

| Name                | Position            |
|---------------------|---------------------|
| Francisco DeLeon    | MWD Engineer        |
| Advance Directional | Directional Driller |
| Robert Olivarez     | MWD Engineer        |
| Kyle Kusak          | MWD Engineer        |

**No BHAs****Directional Activities**

| Activity Type | Code | Start Date | Start Time | End Time | End Date | Start (ft) | End (ft) | Comments/Details                                           |
|---------------|------|------------|------------|----------|----------|------------|----------|------------------------------------------------------------|
| Standby       | 15   | 06-30      | 04:30      | 04:30    | 07-02    |            |          | Standby while casing ops, skidding rig. Rig release @ 0430 |

**MWD Activities**

No Activities



# Surface Plat

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## **Dagger State Com 804H (WT-21-069)**

2021-06-01 to 2021-07-02

Lea, New Mexico, US (32.45, -103.62)

---

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) 334-3178 Fax: (505) 334-6170

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

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

Form C-102

Revised August 4, 2011

Submit one copy to appropriate  
District Office

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

☐ AMENDED REPORT

| API Number    | Pool Code                                         | Pool Name           |
|---------------|---------------------------------------------------|---------------------|
| Property Code | Property Name<br>DAGGER STATE COM                 | Well Number<br>804H |
| OGRID No.     | Operator Name<br>ADVANCE ENERGY PARTNERS HAT MESA | Elevation<br>3816'  |

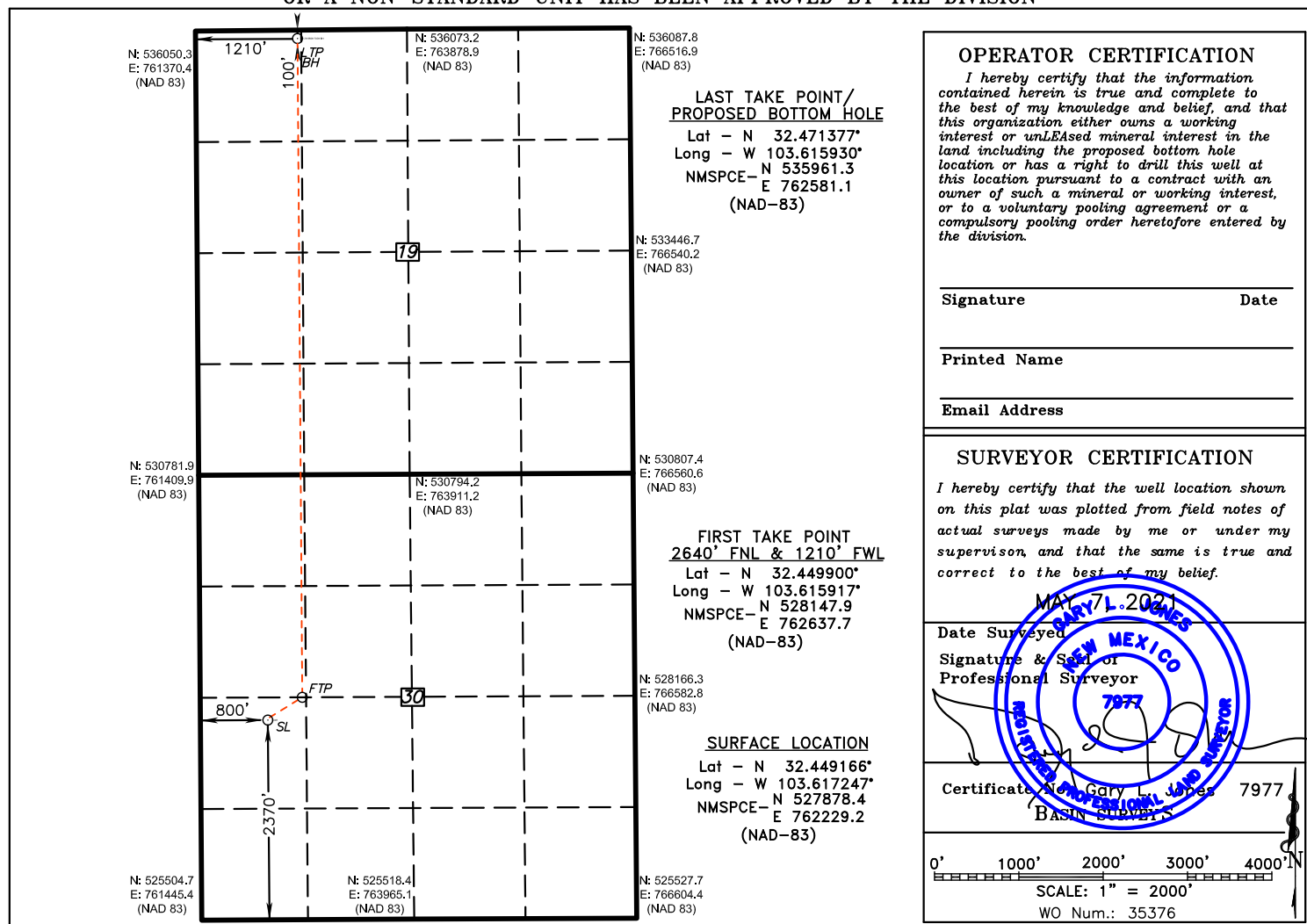
**Surface Location**

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | SOUTH/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| L             | 30      | 21 S     | 33 E  |         | 2370          | SOUTH            | 800           | WEST           | LEA    |

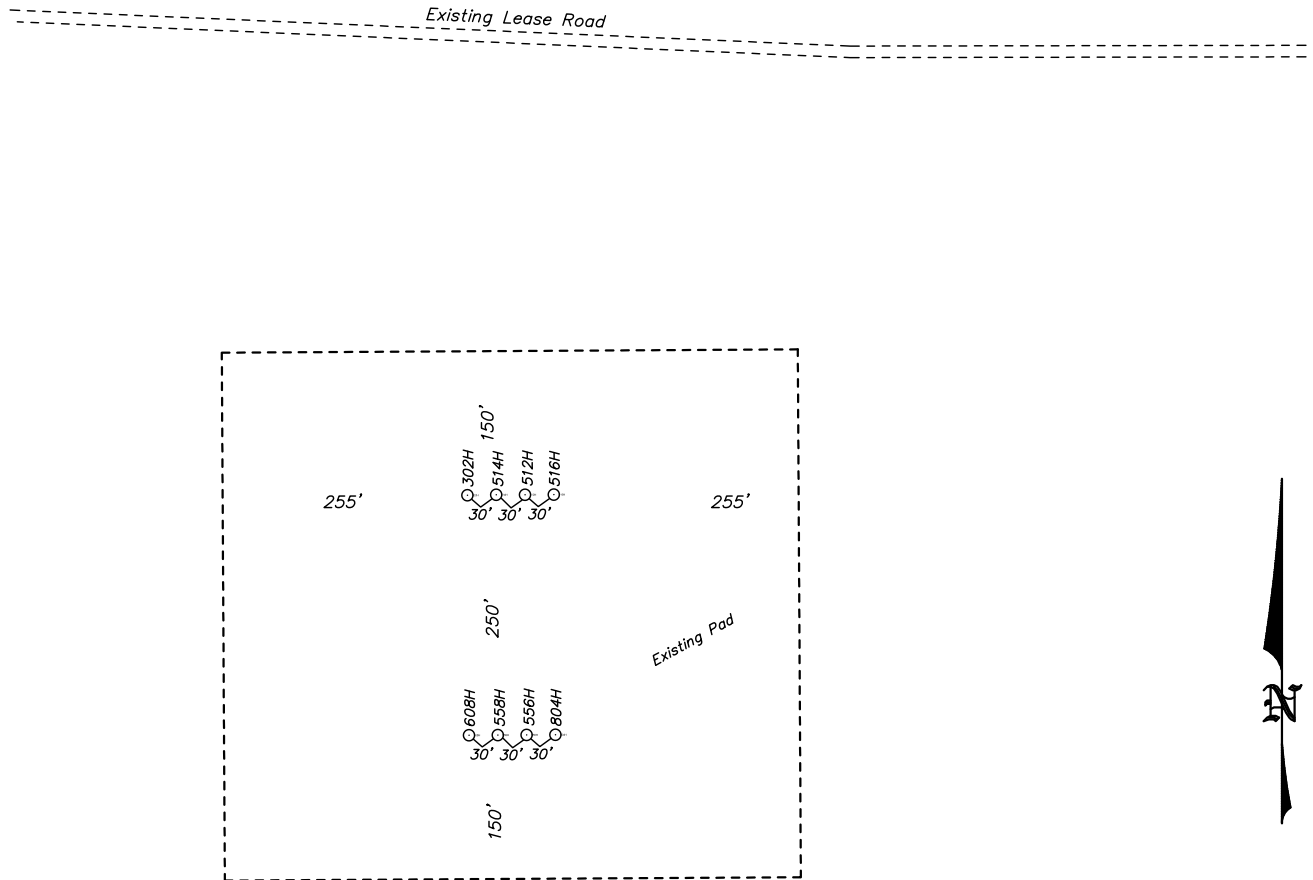
**Bottom Hole Location If Different From Surface**

| UL or lot No.   | Section         | Township           | Range     | Lot Idn | Feet from the | SOUTH/South line | Feet from the | East/West line | County |
|-----------------|-----------------|--------------------|-----------|---------|---------------|------------------|---------------|----------------|--------|
| D               | 19              | 21 S               | 33 E      |         | 100           | NORTH            | 1210          | 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



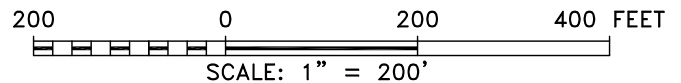
**SECTION 30, TOWNSHIP 21 SOUTH, RANGE 33 EAST. N.M.P.M.,  
LEA COUNTY, NEW MEXICO.**



**ADVANCE ENERGY PARTNERS HAT MESA  
DAGGER STATE COM #806H  
ELEV. - 3816'**

Lat - N 32.449166°  
Long - W 103.617247°  
NMSPCE - N 527878.4  
E 762229.2  
(NAD-83)

EUNICE, NM IS ±26 MILES TO THE EAST OF LOCATION.



**ADVANCE ENERGY PARTNERS HAT MESA**

REF: DAGGER STATE COM #806H / WELL PAD TOPO

THE DAGGER STATE COM #806H LOCATED 2370' FROM  
THE SOUTH LINE AND 800' FROM THE WEST LINE OF  
SECTION 30, TOWNSHIP 21 SOUTH, RANGE 33 EAST.

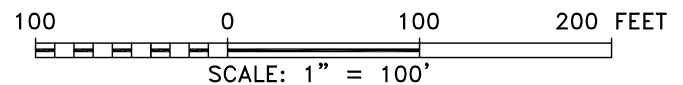
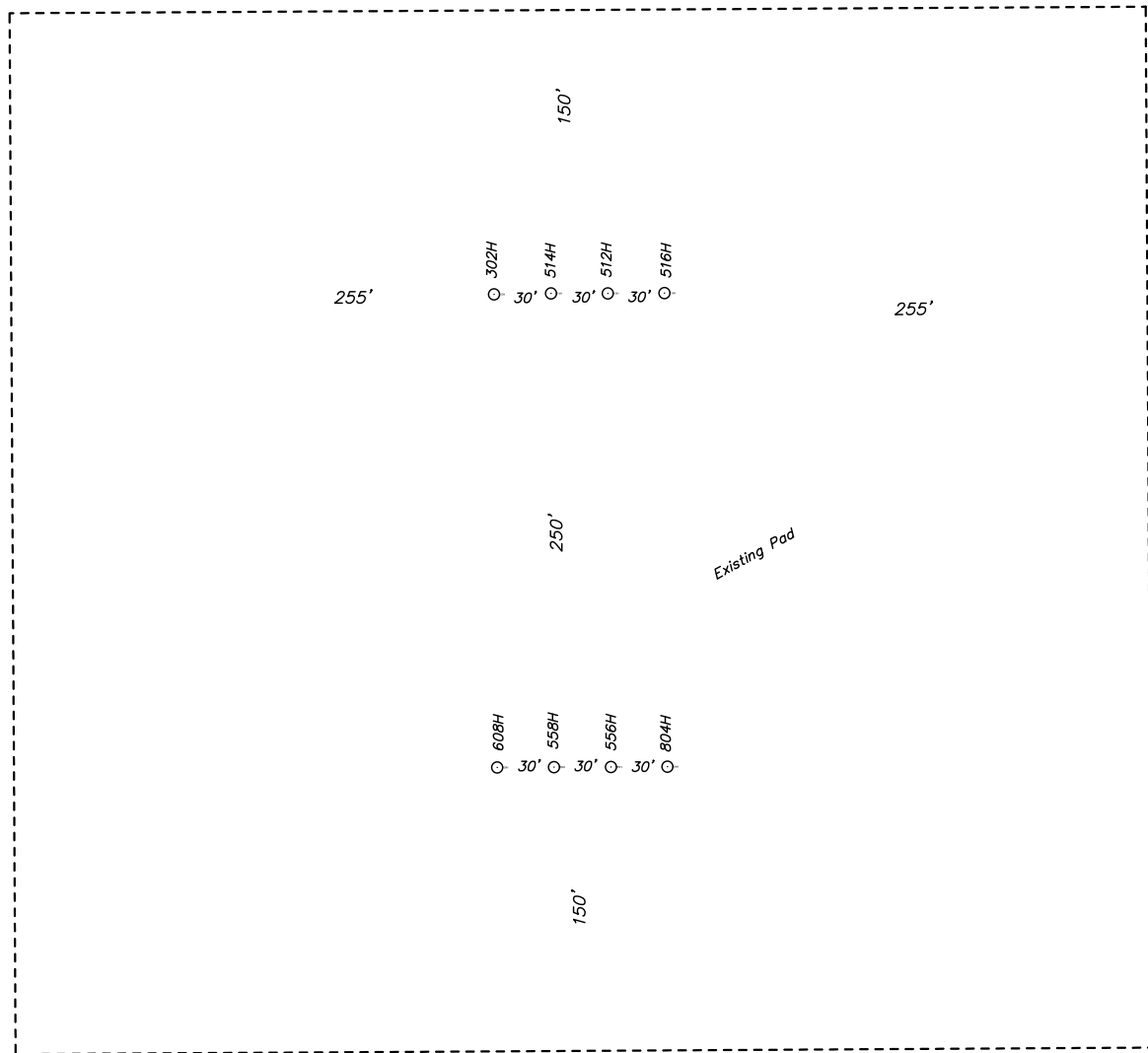
N.M.P.M., LEA COUNTY, NEW MEXICO.

**basin**  
**surveys**  
focused on excellence  
in the oilfield

P.O. Box 1786 (575) 393-7316 - Office  
1120 N. West County Rd. (575) 392-2206 - Fax  
Hobbs, New Mexico 88241 basin-surveys.com

|                    |                   |                  |                         |                     |
|--------------------|-------------------|------------------|-------------------------|---------------------|
| W.O. Number: 35376 | Drawn By: K. GOAD | Date: 05-13-2021 | Survey Date: 05-07-2021 | Sheet 1 of 1 Sheets |
|--------------------|-------------------|------------------|-------------------------|---------------------|

**SECTION 30, TOWNSHIP 21 SOUTH, RANGE 33 EAST. N.M.P.M.,  
LEA COUNTY, NEW MEXICO.**



**ADVANCE ENERGY PARTNERS HAT MESA**

REF: DAGGER STATE COM #806H / WELL PAD TOPO

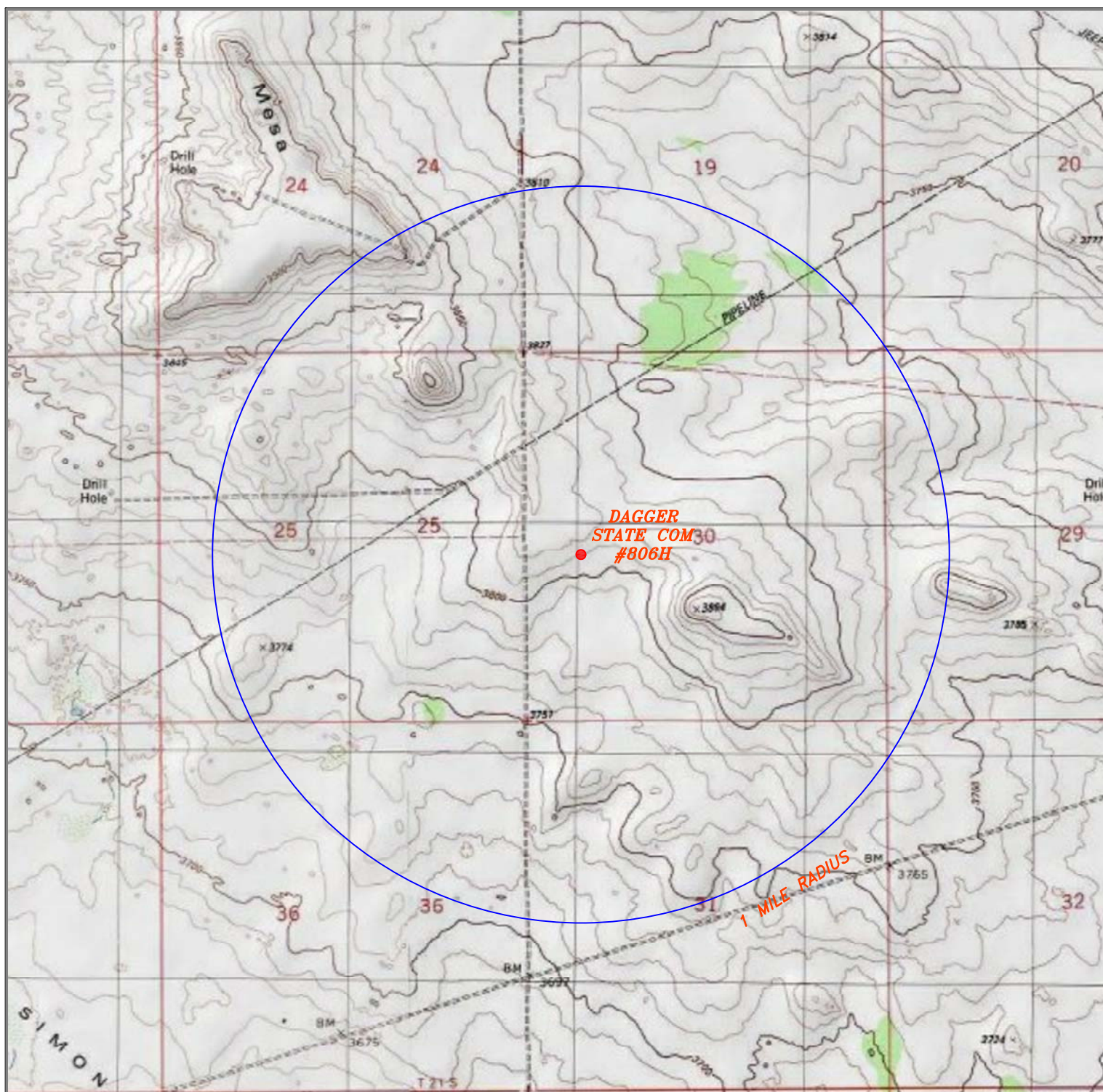
THE DAGGER STATE COM #806H LOCATED 2370' FROM  
THE SOUTH LINE AND 800' FROM THE WEST LINE OF  
SECTION 30, TOWNSHIP 21 SOUTH, RANGE 33 EAST.

N.M.P.M., LEA COUNTY, NEW MEXICO.

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Hobbs, New Mexico 88241 basin-surveys.com

|                    |                   |                  |                         |                     |
|--------------------|-------------------|------------------|-------------------------|---------------------|
| W.O. Number: 35376 | Drawn By: K. GOAD | Date: 05-13-2021 | Survey Date: 05-07-2021 | Sheet 1 of 1 Sheets |
|--------------------|-------------------|------------------|-------------------------|---------------------|



### DAGGER STATE COM #806H

Located 2370' FSL and 800' FWL  
 Section 30, Township 21 South, Range 33 East,  
 N.M.P.M., Lea County, New Mexico.



P.O. Box 1786  
 1120 N. West County Rd.  
 Hobbs, New Mexico 88241  
 (575) 393-7316 - Office  
 (575) 392-2206 - Fax  
 basinsurveys.com

0' 1000' 2000' 3000' 1500'  
 SCALE: 1" = 2000'

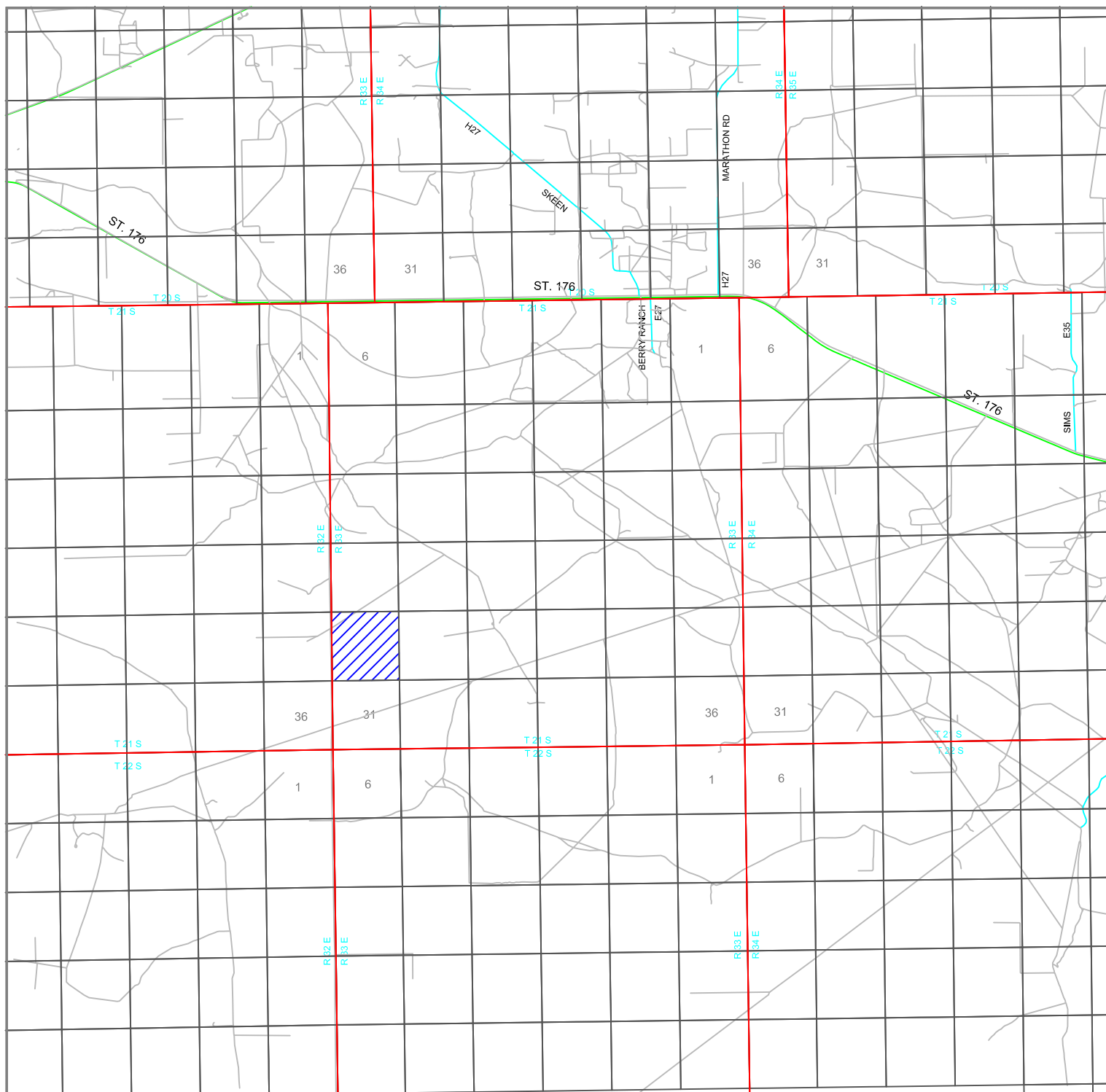
W.O. Number: KJG 35376

Survey Date: 05-07-2021

YELLOW TINT - USA LAND  
 BLUE TINT - STATE LAND  
 NATURAL COLOR - FEE LAND



**ADVANCE  
 ENERGY  
 PARTNERS  
 HAT MESA**



### DAGGER STATE COM #806H

Located 2370' FSL and 800' FWL  
 Section 30, Township 21 South, Range 33 East,  
 N.M.P.M., Lea County, New Mexico.



P.O. Box 1786  
 1120 N. West County Rd.  
 Hobbs, New Mexico 88241  
 (575) 393-7316 - Office  
 (575) 392-2206 - Fax  
 basinsurveys.com

0 1 MI 2 MI 3 MI 4 MI

SCALE: 1" = 2 MILES

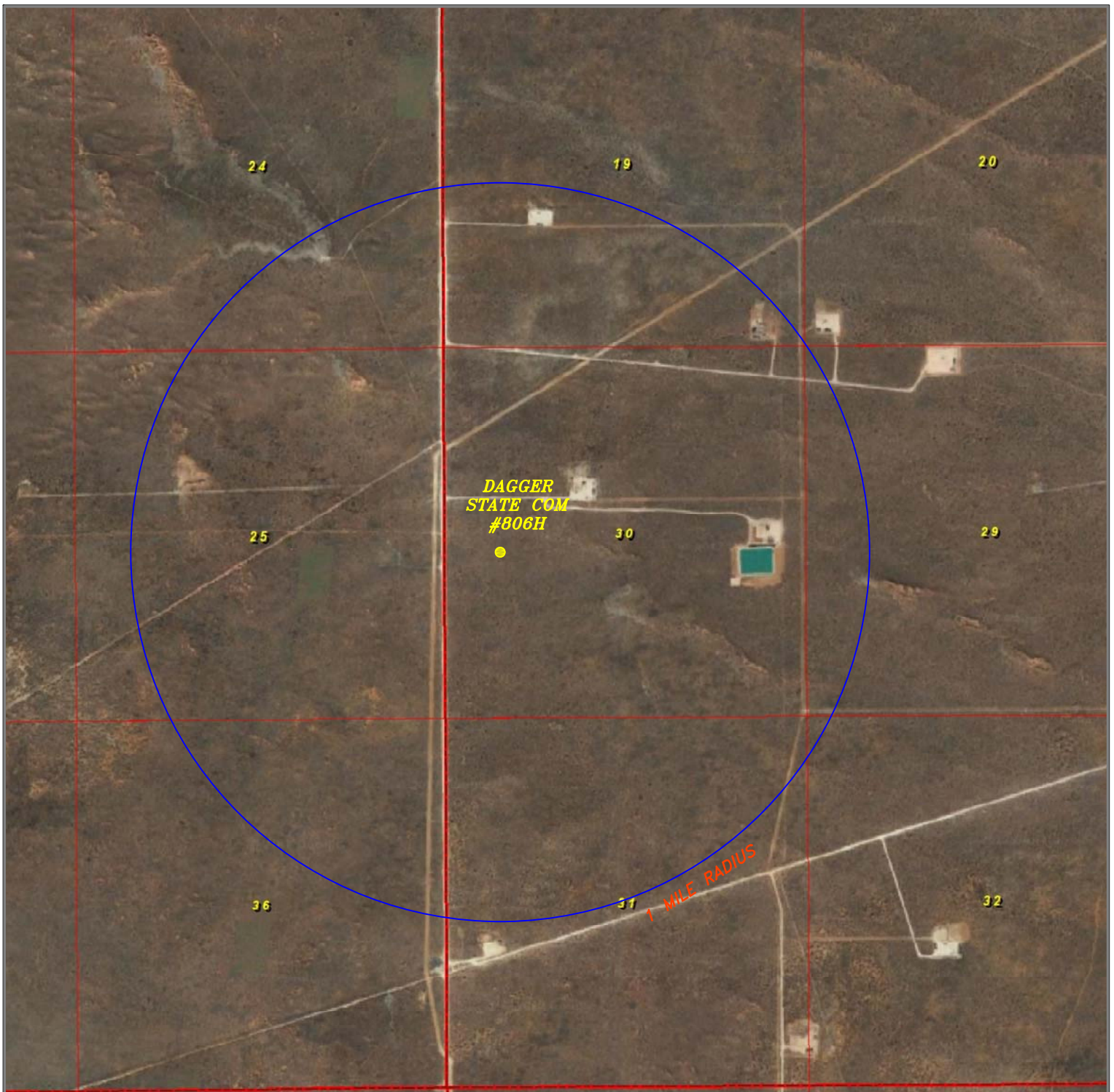
W.O. Number: KJG 35376

Survey Date: 05-07-2021

YELLOW TINT - USA LAND  
 BLUE TINT - STATE LAND  
 NATURAL COLOR - FEE LAND



**ADVANCE  
 ENERGY  
 PARTNERS  
 HAT MESA**



### DAGGER STATE COM #806H

Located 2370' FSL and 800' FWL  
Section 30, Township 21 South, Range 33 East,  
N.M.P.M., Lea County, New Mexico.



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1120 N. West County Rd.  
Hobbs, New Mexico 88241  
(575) 393-7316 - Office  
(575) 392-2206 - Fax  
basinsurveys.com

0' 1000' 2000' 3000' 1500'  
SCALE: 1" = 2000'

W.O. Number: KJG 35376

Survey Date: 05-07-2021

YELLOW TINT - USA LAND  
BLUE TINT - STATE LAND  
NATURAL COLOR - FEE LAND



**ADVANCE  
ENERGY  
PARTNERS  
HAT MESA**

Submit a Copy To Appropriate District  
Office  
District I – (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II – (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III – (505) 334-6178  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV – (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised July 18, 2013

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

|                                                                                                     |
|-----------------------------------------------------------------------------------------------------|
| WELL API NO.<br>30-025-48903                                                                        |
| 5. Indicate Type of Lease<br>STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No.                                                                        |
| 7. Lease Name or Unit Agreement Name<br>Dagger State Com                                            |
| 8. Well Number<br>804H                                                                              |
| 9. OGRID Number<br>372417                                                                           |
| 10. Pool name or Wildcat<br>WC-025 G-10 S2133280; WOLFCAMP                                          |

|                                                                                                                                                                                                               |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) |  |
| 1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>                                                                                |  |
| 2. Name of Operator<br>Advance Energy Partners Hat Mesa                                                                                                                                                       |  |
| 3. Address of Operator<br>11490 Westheimer Rd, Houston, TX 77077                                                                                                                                              |  |
| 4. Well Location<br>Unit Letter <u>L</u> : <u>2370</u> feet from the <u>S</u> line and <u>800</u> feet from the <u>W</u> line<br>Section <u>30</u> Township <u>21S</u> Range <u>33E</u> NMPM County LEA       |  |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.)<br>3816                                                                                                                                                    |  |

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

|                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                                                                                                                                                                                                  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>NOTICE OF INTENTION TO:</b><br>PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/><br>TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/><br>PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/><br>DOWNHOLE COMMINGLE <input type="checkbox"/><br>CLOSED-LOOP SYSTEM <input type="checkbox"/><br>OTHER: <input type="checkbox"/> |  | <b>SUBSEQUENT REPORT OF:</b><br>REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/><br>COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/><br>CASING/CEMENT JOB <input type="checkbox"/><br>OTHER: <input checked="" type="checkbox"/> |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

- 9/28/21: Pressure test casing to 9800 psi for 30 minutes.
- 11-15-11/25/21: Perforate from 12,473' – 20,212' (2352). Frac with 19,382,059 lbs sand and 634,533 gal fluid.
- 1/8/22: Drill all plugs out and clean out to a PBTD of 20,264'.
- 1/15/22: Begin flowback

Spud Date:

6/11/21

Rig Release Date:

7/1/21

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE: *Eileen Kosakowski*

TITLE: Sr. Eng. Tech

DATE: 7/20/22

PRINT NAME: Eileen M Koskowski

E-mail address: [ekosakowski@advanceenergypartners.com](mailto:ekosakowski@advanceenergypartners.com)

PHONE: 832-672-4604

**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 Conditions of Approval (if any): \_\_\_\_\_

|                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                                                                                                                                    |                           |                                                  |                                     |                                                                                                                                                                  |                                               |                                                                                                                                                                |            |               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|
| Submit To Appropriate District Office<br>Two Copies<br><b>District I</b><br>1625 N. French Dr., Hobbs, NM 88240<br><b>District II</b><br>811 S. First St., Artesia, NM 88210<br><b>District III</b><br>1000 Rio Brazos Rd., Aztec, NM 87410<br><b>District IV</b><br>1220 S. St. Francis Dr., Santa Fe, NM 87505                                                                          |                                  | State of New Mexico<br>Energy, Minerals and Natural Resources<br><br>Oil Conservation Division<br>1220 South St. Francis Dr.<br>Santa Fe, NM 87505 |                           |                                                  | Form C-105<br>Revised April 3, 2017 |                                                                                                                                                                  |                                               |                                                                                                                                                                |            |               |
| WELL COMPLETION OR RECOMPLETION REPORT AND LOG                                                                                                                                                                                                                                                                                                                                            |                                  |                                                                                                                                                    |                           |                                                  |                                     |                                                                                                                                                                  |                                               |                                                                                                                                                                |            |               |
| 4. Reason for filing:<br><br><input checked="" type="checkbox"/> <b>COMPLETION REPORT</b> (Fill in boxes #1 through #31 for State and Fee wells only)<br><br><input type="checkbox"/> <b>C-144 CLOSURE ATTACHMENT</b> (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC) |                                  |                                                                                                                                                    |                           |                                                  |                                     |                                                                                                                                                                  |                                               | 1. WELL API NO.<br><div style="text-align: right;">30-025-48903</div>                                                                                          |            |               |
|                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                                                                                                                                    |                           |                                                  |                                     |                                                                                                                                                                  |                                               | 2. Type of Lease<br><input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/> FED/INDIAN<br>3. State Oil & Gas Lease No. |            |               |
| 5. Lease Name or Unit Agreement Name<br><div style="text-align: right;">DAGGER STATE COM</div>                                                                                                                                                                                                                                                                                            |                                  |                                                                                                                                                    |                           |                                                  |                                     |                                                                                                                                                                  |                                               | 6. Well Number:<br><div style="text-align: right;">804H</div>                                                                                                  |            |               |
| 7. Type of Completion:<br><input checked="" type="checkbox"/> NEW WELL <input type="checkbox"/> WORKOVER <input type="checkbox"/> DEEPENING <input type="checkbox"/> PLUGBACK <input type="checkbox"/> DIFFERENT RESERVOIR <input type="checkbox"/> OTHER                                                                                                                                 |                                  |                                                                                                                                                    |                           |                                                  |                                     |                                                                                                                                                                  |                                               |                                                                                                                                                                |            |               |
| 8. Name of Operator<br><div style="text-align: center;">Advance Energy Partners Hat Mesa, LLC</div>                                                                                                                                                                                                                                                                                       |                                  |                                                                                                                                                    |                           |                                                  |                                     | 9. OGRID<br><div style="text-align: right;">372417</div>                                                                                                         |                                               |                                                                                                                                                                |            |               |
| 10. Address of Operator<br><div style="text-align: center;">11490 Westheimer RD, Suite 950<br/>Houston, TX 77077</div>                                                                                                                                                                                                                                                                    |                                  |                                                                                                                                                    |                           |                                                  |                                     | 11. Pool name or Wildcat<br><div style="text-align: right;">WC-025 G-10 S2133280; WOLFCAMP</div>                                                                 |                                               |                                                                                                                                                                |            |               |
| 12. Location                                                                                                                                                                                                                                                                                                                                                                              | Unit Ltr                         | Section                                                                                                                                            | Township                  | Range                                            | Lot                                 | Feet from the                                                                                                                                                    | N/S Line                                      | Feet from the                                                                                                                                                  | E/W Line   | County        |
| Surface:                                                                                                                                                                                                                                                                                                                                                                                  | L                                | 30                                                                                                                                                 | 21 S                      | 33 E                                             |                                     | 2370                                                                                                                                                             | S                                             | 800                                                                                                                                                            | W          | LEA           |
| BH:                                                                                                                                                                                                                                                                                                                                                                                       | D                                | 19                                                                                                                                                 | 21 S                      | 33 E                                             |                                     | 30                                                                                                                                                               | N                                             | 1200                                                                                                                                                           | W          | LEA           |
| 13. Date Spudded<br>6/11/21                                                                                                                                                                                                                                                                                                                                                               | 14. Date T.D. Reached<br>6/27/21 | 15. Date Rig Released<br>7/1/21                                                                                                                    |                           | 16. Date Completed (Ready to Produce)<br>1/15/22 |                                     | 17. Elevations (DF and RKB, RT, GR, etc.)<br>3816'                                                                                                               |                                               |                                                                                                                                                                |            |               |
| 18. Total Measured Depth of Well<br>20,310'                                                                                                                                                                                                                                                                                                                                               |                                  | 19. Plug Back Measured Depth<br>20,264'                                                                                                            |                           | 20. Was Directional Survey Made?<br>YES          |                                     |                                                                                                                                                                  | 21. Type Electric and Other Logs Run<br>Gamma |                                                                                                                                                                |            |               |
| 22. Producing Interval(s), of this completion - Top, Bottom, Name<br>12,473'-20,212' - Wolfcamp                                                                                                                                                                                                                                                                                           |                                  |                                                                                                                                                    |                           |                                                  |                                     |                                                                                                                                                                  |                                               |                                                                                                                                                                |            |               |
| <b>23. CASING RECORD (Report all strings set in well)</b>                                                                                                                                                                                                                                                                                                                                 |                                  |                                                                                                                                                    |                           |                                                  |                                     |                                                                                                                                                                  |                                               |                                                                                                                                                                |            |               |
| CASING SIZE                                                                                                                                                                                                                                                                                                                                                                               |                                  | WEIGHT LB./FT.                                                                                                                                     |                           | DEPTH SET                                        |                                     | HOLE SIZE                                                                                                                                                        |                                               | CEMENTING RECORD                                                                                                                                               |            | AMOUNT PULLED |
| 10.75"                                                                                                                                                                                                                                                                                                                                                                                    |                                  | 45.5#                                                                                                                                              |                           | 1571'                                            |                                     | 14.75"                                                                                                                                                           |                                               | 780                                                                                                                                                            |            |               |
| 7.63"                                                                                                                                                                                                                                                                                                                                                                                     |                                  | 29.7#                                                                                                                                              |                           | 3759'/10,628'                                    |                                     | 9.63"                                                                                                                                                            |                                               | 1350                                                                                                                                                           |            |               |
| 5.5"                                                                                                                                                                                                                                                                                                                                                                                      |                                  | 20#                                                                                                                                                |                           | 20,295'                                          |                                     | 6.75"                                                                                                                                                            |                                               | 1819                                                                                                                                                           |            |               |
|                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                                                                                                                                    |                           |                                                  |                                     |                                                                                                                                                                  |                                               |                                                                                                                                                                |            |               |
|                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                                                                                                                                    |                           |                                                  |                                     |                                                                                                                                                                  |                                               |                                                                                                                                                                |            |               |
| <b>24. LINER RECORD</b>                                                                                                                                                                                                                                                                                                                                                                   |                                  |                                                                                                                                                    |                           |                                                  |                                     |                                                                                                                                                                  |                                               |                                                                                                                                                                |            |               |
| SIZE                                                                                                                                                                                                                                                                                                                                                                                      | TOP                              | BOTTOM                                                                                                                                             |                           | SACKS CEMENT                                     | SCREEN                              |                                                                                                                                                                  | <b>25. TUBING RECORD</b>                      |                                                                                                                                                                |            |               |
|                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                                                                                                                                    |                           |                                                  |                                     |                                                                                                                                                                  | SIZE                                          | DEPTH SET                                                                                                                                                      | PACKER SET |               |
|                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                                                                                                                                    |                           |                                                  |                                     |                                                                                                                                                                  |                                               |                                                                                                                                                                |            |               |
| 26. Perforation record (interval, size, and number)<br><br>12,473' – 20,212' – 2352 holes                                                                                                                                                                                                                                                                                                 |                                  |                                                                                                                                                    |                           |                                                  |                                     | 27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.<br>DEPTH INTERVAL    AMOUNT AND KIND MATERIAL USED<br>12,473'-20,212'    19,382,059 lbs sand, 634,533 bbls water |                                               |                                                                                                                                                                |            |               |
|                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                                                                                                                                    |                           |                                                  |                                     |                                                                                                                                                                  |                                               |                                                                                                                                                                |            |               |
|                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                                                                                                                                    |                           |                                                  |                                     |                                                                                                                                                                  |                                               |                                                                                                                                                                |            |               |
|                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                                                                                                                                    |                           |                                                  |                                     |                                                                                                                                                                  |                                               |                                                                                                                                                                |            |               |
| <b>28. PRODUCTION</b>                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                                                                                                                                    |                           |                                                  |                                     |                                                                                                                                                                  |                                               |                                                                                                                                                                |            |               |
| Date First Production<br>1/16/22                                                                                                                                                                                                                                                                                                                                                          |                                  | Production Method ( <i>Flowing, gas lift, pumping - Size and type pump</i> )<br>Flowing                                                            |                           |                                                  |                                     | Well Status ( <i>Prod. or Shut-in</i> )<br>Prod                                                                                                                  |                                               |                                                                                                                                                                |            |               |
| Date of Test<br>2/28/22                                                                                                                                                                                                                                                                                                                                                                   | Hours Tested<br>24               | Choke Size<br>30                                                                                                                                   | Prod'n For Test<br>Period | Oil - Bbl<br>1417                                | Gas - MCF<br>3803                   | Water - Bbl.<br>3757                                                                                                                                             | Gas - Oil Ratio<br>2684                       |                                                                                                                                                                |            |               |
| Flow Tubing Press.<br>----                                                                                                                                                                                                                                                                                                                                                                | Casing Pressure<br>722           | Calculated 24-Hour<br>Rate                                                                                                                         | Oil - Bbl.<br>1417        | Gas – MCF<br>3803                                | Water - Bbl.<br>3757                | Oil Gravity - API - ( <i>Corr.</i> )<br>41.9                                                                                                                     |                                               |                                                                                                                                                                |            |               |
| 29. Disposition of Gas ( <i>Sold, used for fuel, vented, etc.</i> )                                                                                                                                                                                                                                                                                                                       |                                  |                                                                                                                                                    |                           |                                                  |                                     |                                                                                                                                                                  |                                               | 30. Test Witnessed By<br>Amit Kumar                                                                                                                            |            |               |
| 31. List Attachments                                                                                                                                                                                                                                                                                                                                                                      |                                  |                                                                                                                                                    |                           |                                                  |                                     |                                                                                                                                                                  |                                               |                                                                                                                                                                |            |               |
| 32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.                                                                                                                                                                                                                                                                                        |                                  |                                                                                                                                                    |                           |                                                  |                                     | 33. Rig Release Date: 7/1/21                                                                                                                                     |                                               |                                                                                                                                                                |            |               |
| 34. If an on-site burial was used at the well, report the exact location of the on-site burial:                                                                                                                                                                                                                                                                                           |                                  |                                                                                                                                                    |                           |                                                  |                                     |                                                                                                                                                                  |                                               |                                                                                                                                                                |            |               |
| Latitude _____                                                                                                                                                                                                                                                                                                                                                                            |                                  |                                                                                                                                                    |                           |                                                  |                                     | Longitude _____ NAD83                                                                                                                                            |                                               |                                                                                                                                                                |            |               |
| I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief                                                                                                                                                                                                                                                        |                                  |                                                                                                                                                    |                           |                                                  |                                     |                                                                                                                                                                  |                                               |                                                                                                                                                                |            |               |
| Signature <i>Eileen Kosakowski</i>                                                                                                                                                                                                                                                                                                                                                        |                                  |                                                                                                                                                    |                           | Date: 7/20/22                                    |                                     | E-mail Address: <a href="mailto:ekosakowski@advanceenergypartners.com">ekosakowski@advanceenergypartners.com</a>                                                 |                                               |                                                                                                                                                                |            |               |
| Printed Name: Eileen M Kosakowski                                                                                                                                                                                                                                                                                                                                                         |                                  |                                                                                                                                                    |                           | Title: Sr. Eng. Tech                             |                                     |                                                                                                                                                                  |                                               |                                                                                                                                                                |            |               |

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

| Southeastern New Mexico       |                                | Northwestern New Mexico |                  |
|-------------------------------|--------------------------------|-------------------------|------------------|
| T. Anhy                       | T. Canyon                      | T. Ojo Alamo            | T. Penn A"       |
| T. Salt                       | T. Strawn                      | T. Kirtland             | T. Penn. "B"     |
| B. Salt                       | T. Atoka                       | T. Fruitland            | T. Penn. "C"     |
| T. Yates                      | T. Miss                        | T. Pictured Cliffs      | T. Penn. "D"     |
| T. 7 Rivers                   | T. Devonian                    | T. Cliff House          | T. Leadville     |
| T. Queen                      | T. Silurian                    | T. Menefee              | T. Madison       |
| T. Grayburg                   | T. Montoya                     | T. Point Lookout        | T. Elbert        |
| T. San Andres                 | T. Simpson                     | T. Mancos               | T. McCracken     |
| T. Glorieta                   | T. McKee                       | T. Gallup               | T. Ignacio Otzte |
| T. Paddock                    | T. Ellenburger                 | Base Greenhorn          | T.Granite        |
| T. Blinebry                   | T. Gr. Wash                    | T. Dakota               |                  |
| T.Tubb                        | T. Delaware Sand               | T. Morrison             |                  |
| T. Drinkard                   | T. Bone Springs 9988MD/9975TVD | T.Todilto               |                  |
| T. Abo                        | T.2BS 10,580MD/10,567TVD       | T. Entrada              |                  |
| T. Wolfcamp12,221MD/12,074TVD | T.3BS 11496MD/11481TVD         | T. Wingate              |                  |
| T. Penn                       | T.                             | T. Chinle               |                  |
| T. Cisco (Bough C)            | T.                             | T. Permian              |                  |

No. 1, from.....to.....  
No. 2, from.....to.....  
No. 3, from.....to.....  
No. 4, from.....to.....

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....  
 No. 2, from.....to.....feet.....  
 No. 3, from.....to.....feet.....

| From | To | Thickness<br>In Feet | Lithology |
|------|----|----------------------|-----------|
|      |    |                      |           |

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

ACKNOWLEDGMENTS

Action 127415

**ACKNOWLEDGMENTS**

|                                                                                                        |                                                    |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Operator:<br>ADVANCE ENERGY PARTNERS HAT MESA, LLC<br>5400 LBJ Freeway, Suite 1500<br>Dallas, TX 75240 | OGRID:<br>372417                                   |
|                                                                                                        | Action Number:<br>127415                           |
|                                                                                                        | Action Type:<br>[C-104] Completion Packet (C-104C) |

**ACKNOWLEDGMENTS**

|                                     |                                                                                                                    |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.     |
| <input checked="" type="checkbox"/> | I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion. |

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
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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

CONDITIONS

Action 127415

CONDITIONS

|                                                                                                        |                                                    |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Operator:<br>ADVANCE ENERGY PARTNERS HAT MESA, LLC<br>5400 LBJ Freeway, Suite 1500<br>Dallas, TX 75240 | OGRID:<br>372417                                   |
|                                                                                                        | Action Number:<br>127415                           |
|                                                                                                        | Action Type:<br>[C-104] Completion Packet (C-104C) |

CONDITIONS

|                |           |                |
|----------------|-----------|----------------|
| Created By     | Condition | Condition Date |
| crystal.walker | None      | 10/7/2025      |