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

Form C-104  
Revised August 1, 2011  
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, Suite 950<br>Houston, Texas 77077 |                                                            | <sup>2</sup> OGRID Number<br>372417                       |
|                                                                                                                                        |                                                            | <sup>3</sup> Reason for Filing Code/ Effective Date<br>NW |
| <sup>4</sup> API Number<br>30-025-48602                                                                                                | <sup>5</sup> Pool Name<br>WC-025 G-08 S213304D;BONE SPRING | <sup>6</sup> Pool Code<br>97895                           |
| <sup>7</sup> Property Code<br>319607                                                                                                   | <sup>8</sup> Property Name<br>Wool Head 20 State Com       | <sup>9</sup> Well Number<br>301H                          |

II. <sup>10</sup> Surface Location

|                    |               |     |              |         |                      |                           |                      |                        |               |
|--------------------|---------------|-----|--------------|---------|----------------------|---------------------------|----------------------|------------------------|---------------|
| Ul or lot no.<br>M | Section<br>20 | 21S | Range<br>33E | Lot Idn | Feet from the<br>225 | North/South Line<br>South | Feet from the<br>767 | East/West line<br>West | County<br>Lea |
|--------------------|---------------|-----|--------------|---------|----------------------|---------------------------|----------------------|------------------------|---------------|

<sup>11</sup> Bottom Hole Location

|                        |                                     |                                   |                                   |                                    |                                     |                           |                      |                        |               |
|------------------------|-------------------------------------|-----------------------------------|-----------------------------------|------------------------------------|-------------------------------------|---------------------------|----------------------|------------------------|---------------|
| UL or lot no.<br>L     | Section<br>17                       | Township<br>21S                   | Range<br>33E                      | Lot Idn                            | Feet from the<br>2598               | North/South line<br>SOUTH | Feet from the<br>656 | East/West line<br>WEST | County<br>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 |                           |                      |                        |               |

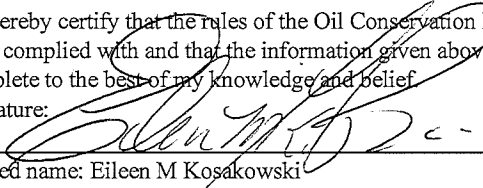
III. Oil and Gas Transporters

|                                 |                                                                                      |                     |
|---------------------------------|--------------------------------------------------------------------------------------|---------------------|
| <sup>18</sup> Transporter OGRID | <sup>19</sup> Transporter Name and Address                                           | <sup>20</sup> O/G/W |
| 214984                          | Plains Marketing L.P.<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>5/9/21 | <sup>22</sup> Ready Date<br>8/19/21 | <sup>23</sup> TD<br>17771 | <sup>24</sup> PBTD<br>17,693 | <sup>25</sup> Perforations<br>10312-17679 | <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   |                                           |                       |
| 17.5                              | 13.375                              | 1645                      | 955                          |                                           |                       |
| 12.25                             | 9.625                               | 5298                      | 1195                         |                                           |                       |
| 8.5                               | 5.5                                 | 17756                     | 3355                         |                                           |                       |
|                                   |                                     |                           |                              |                                           |                       |

V. Well Test Data

|                                                                                                                                                                                                                                                                                                            |                                            |                                   |                                       |                                    |                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------|---------------------------------------|------------------------------------|------------------------------------|
| <sup>31</sup> Date New Oil<br>8/19/21                                                                                                                                                                                                                                                                      | <sup>32</sup> Gas Delivery Date<br>8/19/21 | <sup>33</sup> Test Date<br>9/1/21 | <sup>34</sup> Test Length<br>24 Hrs   | <sup>35</sup> Tbg. Pressure<br>990 | <sup>36</sup> Csg. Pressure<br>243 |
| <sup>37</sup> Choke Size<br>128                                                                                                                                                                                                                                                                            | <sup>38</sup> Oil<br>444                   | <sup>39</sup> Water<br>7396       | <sup>40</sup> Gas<br>657              |                                    | <sup>41</sup> Test Method<br>F     |
| <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:  |                                            |                                   | OIL CONSERVATION DIVISION             |                                    |                                    |
| Printed name: Eileen M Kosakowski                                                                                                                                                                                                                                                                          |                                            |                                   | Approved by: <b>PATRICIA MARTINEZ</b> |                                    |                                    |
| Title: Sr. Eng. Tech.                                                                                                                                                                                                                                                                                      |                                            |                                   | Title: <b>PETROLEUM SPECIALIST</b>    |                                    |                                    |
| E-mail Address:<br>ekosakowski@advanceenergypartners.com                                                                                                                                                                                                                                                   |                                            |                                   | Approval Date:<br><b>3/10/2022</b>    |                                    |                                    |
| Date:<br><b>3/1/22</b>                                                                                                                                                                                                                                                                                     |                                            | Phone: 832-672-4604               |                                       |                                    |                                    |

## DISTRICT I

1625 N. French Dr., Hobbs, NM 88240  
Phone (505) 393-8181 Fax: (505) 393-0720

## DISTRICT II

811 S. First St., Artesia, NM 88210  
Phone (505) 748-1283 Fax: (505) 748-9720

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone (505) 334-8178 Fax: (505) 334-8170

## DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone (505) 476-3480 Fax: (505) 476-3482State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102

Revised August 4, 2011

Submit one copy to appropriate  
District Office

## OIL CONSERVATION DIVISION

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

## WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

|                                           |                                                   |                                                |
|-------------------------------------------|---------------------------------------------------|------------------------------------------------|
| API Number<br>30-025-48602                | Pool Code<br>97895                                | Pool Name<br>WC-025 G-08 S213304D; BONE SPRING |
| Property Code<br><del>325948</del> 319607 | Property Name<br>WOOL HEAD 20 STATE COM           | Well Number<br>301H                            |
| OGRID No.<br>372417                       | Operator Name<br>ADVANCE ENERGY PARTNERS HAT MESA | Elevation<br>3741'                             |

## Surface Location

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | SOUTH/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| M             | 20      | 21 S     | 33 E  |         | 225           | SOUTH            | 767           | 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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| L             | 17      | 21 S     | 33 E  |         | 2598          | SOUTH            | 656           | WEST           | LEA    |

| Dedicated Acres | Joint or Infill | Consolidation Code | Order No. |
|-----------------|-----------------|--------------------|-----------|
| 240             |                 |                    |           |

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 32.478789°  
Long - W 103.601054°  
NMSPCE - N 538689.0  
E 767150.3  
(NAD-83)

**LAST TAKE POINT**  
2524' FSL & 657' FWL  
Lat - N 32.478585°  
Long - W 103.601050°  
NMSPCE - N 538615.1  
E 767152.3  
(NAD-83)

**FIRST TAKE POINT**  
445' FSL & 749' FWL  
Lat - N 32.758357°  
Long - W 103.600713°  
NMSPCE - N 531256.7  
E 767306.6  
(NAD-83)

**KICK OFF POINT**  
88' FSL & 664' FWL  
Lat - N 32.457376°  
Long - W 103.600988°  
NMSPCE - N 530899.0  
E 767224.3  
(NAD-83)

**SURFACE LOCATION**  
Lat - N 32.457752°  
Long - W 103.600656°  
NMSPCE - N 531036.5  
E 767325.7  
(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.

Signature: Debbie Moughon Date: 12/15/21

Printed Name: Debbie Moughon

Email Address: dmoughon@advanceenergypart

Physical 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.

DECEMBER 9, 2021

Date Surveyed: \_\_\_\_\_

Signature & Seal of Professional Surveyor: [Signature]

Certificate No. 7977

Scale: 1" = 2000'

WO Num.: 35535



# GEO MAG

## Technologies



End Of Well Report

**Advanced Energy Partners**  
**Wool Head 20 State Com 301H**  
**Lea County, New Mexico**  
**Rig: Nabors X47**  
**06/18/2021**



**Ryan Comeaux**  
**Owner / Operations Manager**  
**337-278-4607**  
[rcomeaux@geomagmwd.com](mailto:rcomeaux@geomagmwd.com)



ADVANCE ENERGY PARTNERS  
WOOL HEAD 20 STATE COM 301H  
LEA CO. NM  
3741' GL + 32.50' KB  
RIG: NABORS RIG X47

## WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

| Name                            | TVD      | +N/-S   | +E/-W   | Northing   | Easting    | Latitude         | Longitude        |
|---------------------------------|----------|---------|---------|------------|------------|------------------|------------------|
| Wool Head 20 State Com 301H BHL | 10075.02 | 7594.78 | -170.87 | 538631.372 | 767154.871 | 32° 28' 43.068 N | 103° 36' 3.748 W |
| Wool Head 20 State Com 301H LP  | 10096.02 | 352.40  | -104.40 | 531389.008 | 767221.341 | 32° 27' 31.401 N | 103° 36' 3.552 W |
| Wool Head 20 State Com 301H WP2 | 10138.02 | 6201.01 | -158.10 | 537237.608 | 767167.641 | 32° 28' 29.276 N | 103° 36' 3.710 W |
| Wool Head 20 State Com 301H WP1 | 10170.02 | 3851.01 | -136.50 | 534887.608 | 767189.241 | 32° 28' 6.022 N  | 103° 36' 3.646 W |



Azimuths to Grid North  
True North: -0.39°  
Magnetic North: 6.20°  
  
Magnetic Field  
Strength: 47638.5nT  
Dip Angle: 60.11°  
Date: 5/5/2021  
Model: IGRF2020

## SECTION DETAILS

| MD       | Inc   | Azi    | TVD      | +N/-S   | +E/-W   | Dleg  | TFace  | Vsect   |
|----------|-------|--------|----------|---------|---------|-------|--------|---------|
| 0.00     | 0.00  | 0.00   | 0.00     | 0.00    | 0.00    | 0.00  | 0.00   | 0.00    |
| 5200.01  | 0.00  | 0.00   | 5200.01  | 0.00    | 0.00    | 0.00  | 0.00   | 0.00    |
| 5458.84  | 2.59  | 218.66 | 5458.75  | -4.56   | -3.65   | 1.00  | 218.66 | -4.48   |
| 8744.71  | 2.59  | 218.66 | 8741.27  | -120.44 | -96.35  | 0.00  | 0.00   | -118.24 |
| 9003.55  | 0.00  | 0.00   | 9000.02  | -125.00 | -100.00 | 1.00  | 180.00 | -122.72 |
| 9623.13  | 0.00  | 0.00   | 9619.60  | -125.00 | -100.00 | 0.00  | 0.00   | -122.72 |
| 10373.06 | 90.00 | 359.47 | 10096.02 | 351.40  | -104.39 | 12.00 | 359.47 | 353.66  |
| 10374.06 | 90.00 | 359.47 | 10096.02 | 352.40  | -104.40 | 0.00  | 0.00   | 354.66  |
| 10435.18 | 88.78 | 359.47 | 10096.67 | 413.51  | -104.96 | 2.00  | 179.89 | 415.77  |
| 13873.60 | 88.78 | 359.47 | 10170.02 | 3851.01 | -136.50 | 0.00  | 0.00   | 3853.10 |
| 13975.95 | 90.82 | 359.47 | 10138.02 | 3953.35 | -137.44 | 2.00  | -0.03  | 3955.44 |
| 16223.94 | 90.82 | 359.47 | 10138.02 | 6201.01 | -158.10 | 0.00  | 0.00   | 6203.00 |
| 16315.08 | 92.65 | 359.48 | 10135.26 | 6292.10 | -158.94 | 2.00  | 0.05   | 6294.09 |
| 17619.21 | 92.65 | 359.48 | 10075.02 | 7594.78 | -170.87 | 0.00  | 0.00   | 7596.70 |

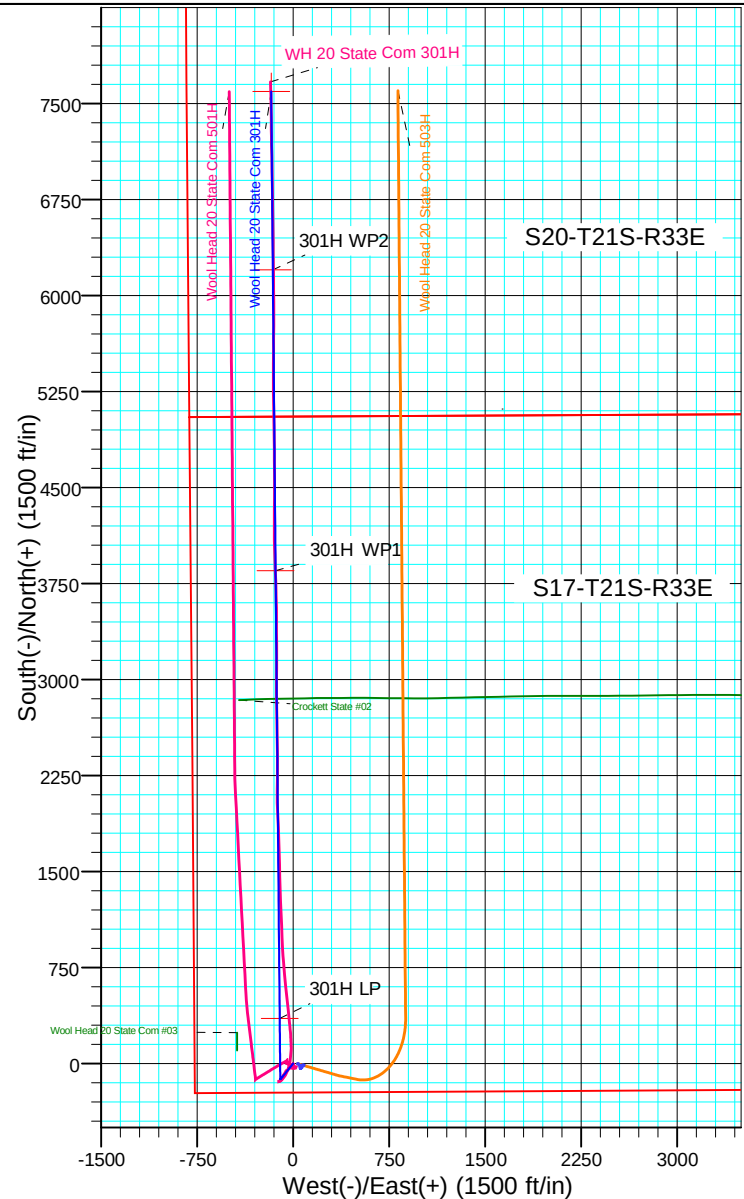
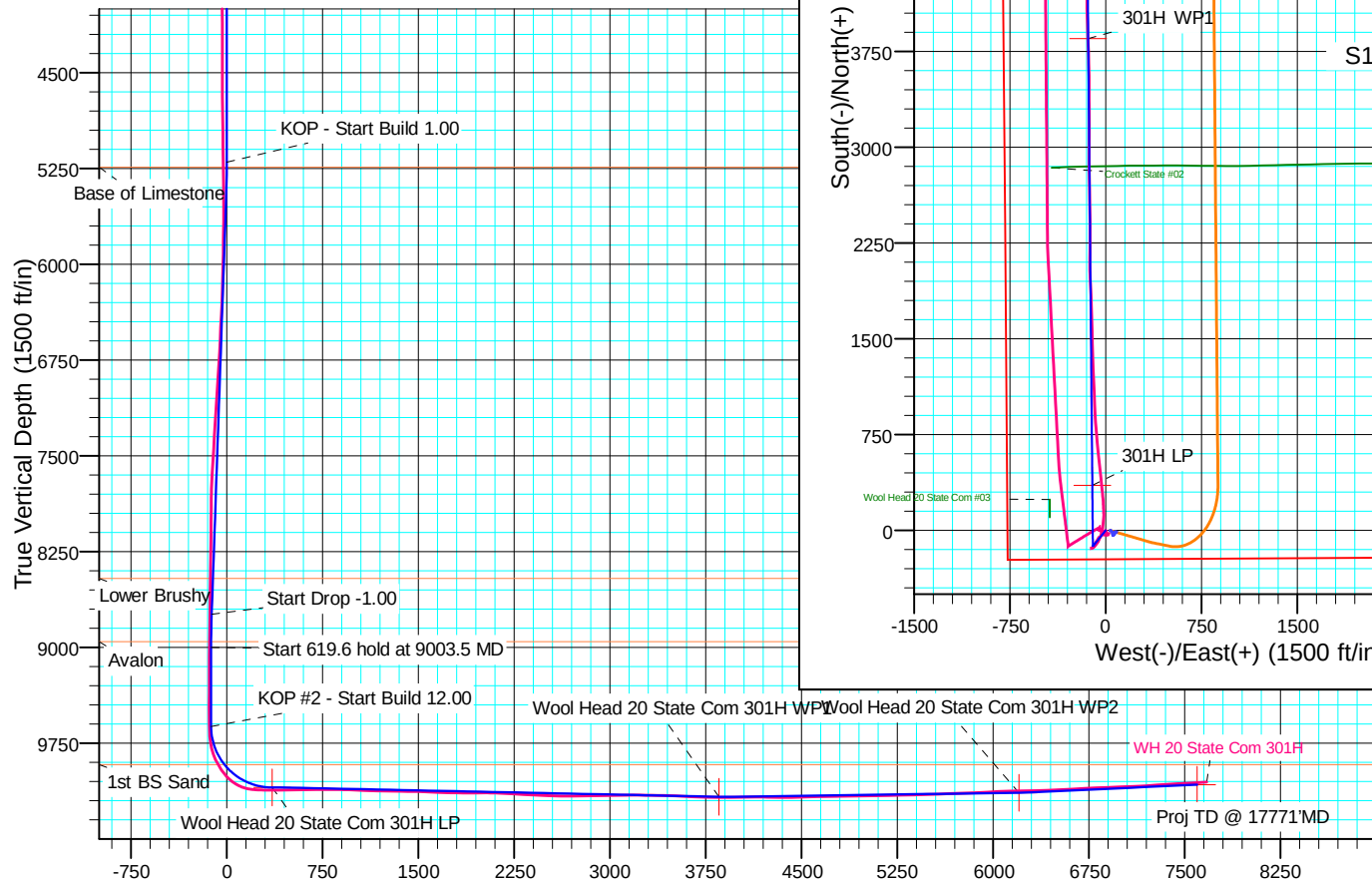
KOP - Start Build 1.00  
Start 3285.9 hold at 5458.8 MD  
Start Drop -1.00  
Start 619.6 hold at 9003.5 MD  
KOP #2 - Start Build 12.00  
LP - Start 1.0 hold at 10373.0 MD  
LP - Start 1.0 hold at 10373.0 MD  
Start 3438.4 hold at 10435.2 MD  
WP1 - Start DLS 2.00 TFO -0.03  
Start 2248.0 hold at 13975.9 MD  
WP2 - Start DLS 2.00 TFO 0.05  
Start 1304.1 hold at 16315.1 MD  
TD at 17619.2

## FORMATION TOP DETAILS

| TVDPath | MDPath  | Formation         | DipAngle | DipDir |
|---------|---------|-------------------|----------|--------|
| 1567.50 | 1567.50 | Rustler           | 0.00     |        |
| 5239.51 | 5239.51 | Base of Limestone | 0.00     |        |
| 8460.52 | 8463.67 | Lower Brushy      | 0.00     |        |
| 8954.52 | 8958.05 | Avalon            | 0.00     |        |
| 9917.52 | 9944.85 | 1st BS Sand       | 0.00     |        |

## WELL DETAILS: Wool Head 20 State Com 301H

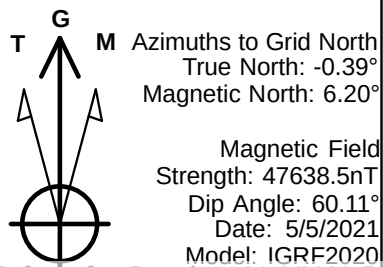
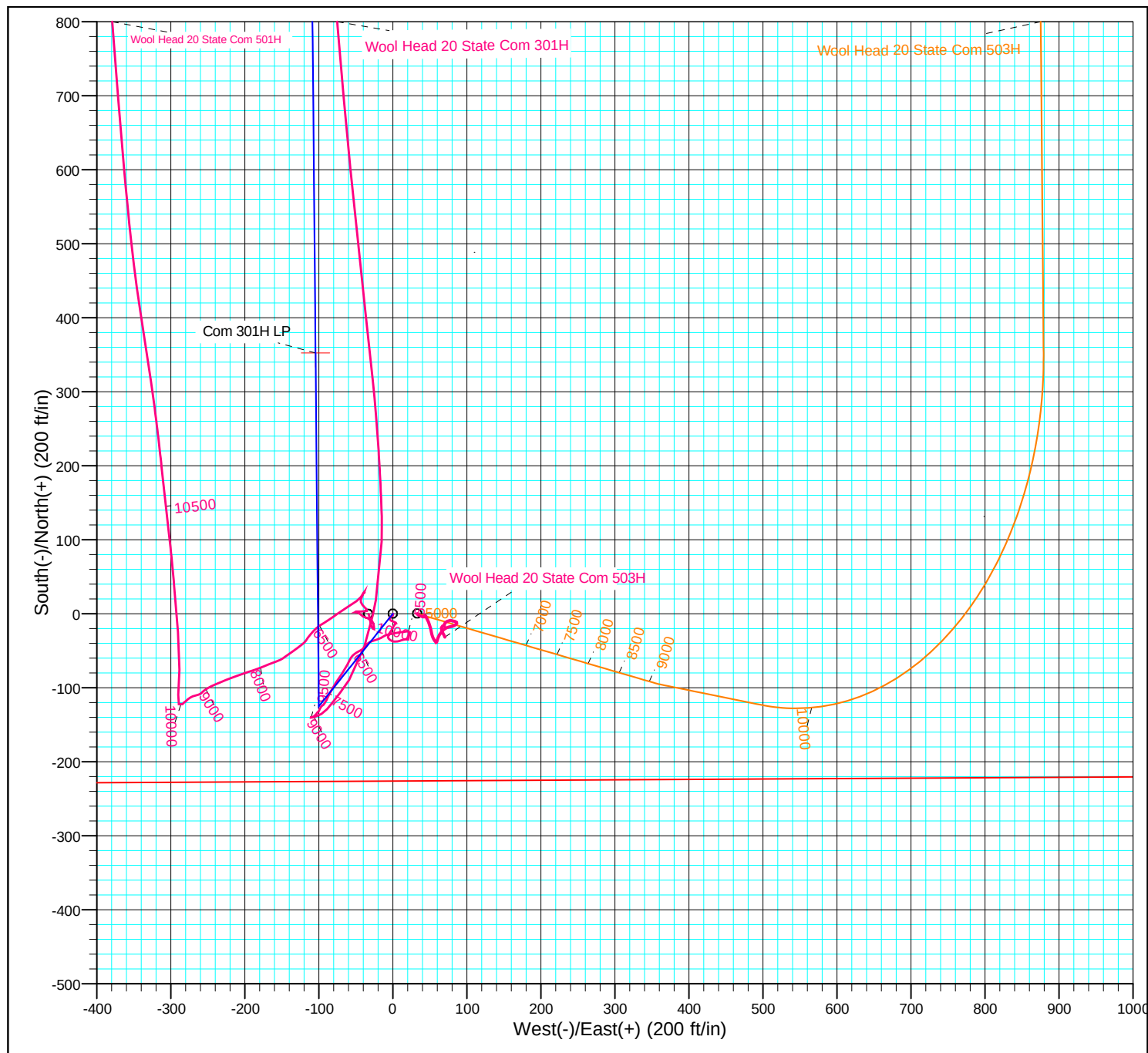
| Northing   | Easting    | Latitude         | Longitude        |
|------------|------------|------------------|------------------|
| 531036.608 | 767325.741 | 32° 27' 27.907 N | 103° 36' 2.362 W |





ADVANCE ENERGY PARTNERS  
WOOL HEAD 20 STATE COM SPIDER  
LEA CO. NM  
3741' GL + 32.50' KB  
RIG: NABORS RIG X47

| WELL DETAILS: Wool Head 20 State Com 301H |            |                  |                  |
|-------------------------------------------|------------|------------------|------------------|
| 3741.01                                   |            |                  |                  |
| Northings                                 | Easting    | Latitude         | Longitude        |
| 531036.608                                | 767325.741 | 32° 27' 27.907 N | 103° 36' 2.362 W |



# **Advance Energy Partners**

**Lea Co. NM**

**Wool Head 20 State Com Pad D**

**Wool Head 20 State Com 301H**

**Wool Head 20 State Com 301H**

**Design: Wool Head 20 State Com 301H**

## **Standard Survey Report**

**18 June, 2021**



## Survey Report



|                  |                              |                                     |                                       |
|------------------|------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Advance Energy Partners      | <b>Local Co-ordinate Reference:</b> | Well Wool Head 20 State Com 301H      |
| <b>Project:</b>  | Lea Co. NM                   | <b>TVD Reference:</b>               | WELL @ 3773.51ft (Original Well Elev) |
| <b>Site:</b>     | Wool Head 20 State Com Pad D | <b>MD Reference:</b>                | WELL @ 3773.51ft (Original Well Elev) |
| <b>Well:</b>     | Wool Head 20 State Com 301H  | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | Wool Head 20 State Com 301H  | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | Wool Head 20 State Com 301H  | <b>Database:</b>                    | EDM 5000.1 Single User Db             |

|                    |                            |                      |                |
|--------------------|----------------------------|----------------------|----------------|
| <b>Project</b>     | Lea Co. NM, Lea County, NM |                      |                |
| <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                  |          | Wool Head 20 State Com Pad D |                  |                   |                  |
| Site Position:        |          | Northing:                    | 531,061.491 usft | Latitude:         | 32° 27' 28.156 N |
| From:                 | Lat/Long | Easting:                     | 767,293.490 usft | Longitude:        | 103° 36' 2.736 W |
| Position Uncertainty: | 0.00 ft  | Slot Radius:                 | 13.200 in        | Grid Convergence: | 0.39 °           |

| Well                 |       | Wool Head 20 State Com 301H |                     |                  |               |                  |
|----------------------|-------|-----------------------------|---------------------|------------------|---------------|------------------|
| Well Position        | +N/-S | 0.00 ft                     | Northing:           | 531,036.608 usft | Latitude:     | 32° 27' 27.907 N |
|                      | +E/-W | 0.00 ft                     | Easting:            | 767,325.741 usft | Longitude:    | 103° 36' 2.362 W |
| Position Uncertainty |       | 0.00 ft                     | Wellhead Elevation: | ft               | Ground Level: | 3,741.01 ft      |

|                  |                             |                    |                        |                      |                            |
|------------------|-----------------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Wool Head 20 State Com 301H |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b>           | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2020                    | 5/5/2021           | 6.59                   | 60.11                | 47,638.49359506            |

|                          |                              |                   |                   |                      |      |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|------|
| <b>Design</b>            | Wool Head 20 State Com 301H  |                   |                   |                      |      |
| <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) (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Direction (°)</b> |      |
|                          | 0.00                         | 0.00              | 0.00              | 358.71               |      |

|                       |                |                                         |                  |                    |  |
|-----------------------|----------------|-----------------------------------------|------------------|--------------------|--|
| <b>Survey Program</b> | <b>Date</b>    | 6/18/2021                               |                  |                    |  |
| <b>From (ft)</b>      | <b>To (ft)</b> | <b>Survey (Wellbore)</b>                | <b>Tool Name</b> | <b>Description</b> |  |
| 202.00                | 17,771.00      | Survey #1 (Wool Head 20 State Com 301H) | MWD+HRGM         | OWSG MWD + HRGM    |  |

|                            |                        |                    |                            |                   |                   |                              |                              |                             |                            |
|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|------------------------------|-----------------------------|----------------------------|
| <b>Survey</b>              |                        |                    |                            |                   |                   |                              |                              |                             |                            |
| <b>Measured Depth (ft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Vertical Section (ft)</b> | <b>Dogleg Rate (°/100ft)</b> | <b>Build Rate (°/100ft)</b> | <b>Turn Rate (°/100ft)</b> |
| 0.00                       | 0.00                   | 0.00               | 0.00                       | 0.00              | 0.00              | 0.00                         | 0.00                         | 0.00                        | 0.00                       |
| 202.00                     | 0.53                   | 164.14             | 202.00                     | -0.90             | 0.26              | -0.90                        | 0.26                         | 0.26                        | 0.00                       |
| 325.00                     | 0.66                   | 203.87             | 324.99                     | -2.09             | 0.12              | -2.10                        | 0.34                         | 0.11                        | 32.30                      |
| 509.00                     | 0.62                   | 251.50             | 508.98                     | -3.38             | -1.25             | -3.35                        | 0.28                         | -0.02                       | 25.89                      |
| 693.00                     | 1.01                   | 243.94             | 692.96                     | -4.41             | -3.65             | -4.32                        | 0.22                         | 0.21                        | -4.11                      |
| 879.00                     | 0.84                   | 180.05             | 878.94                     | -6.49             | -5.12             | -6.37                        | 0.53                         | -0.09                       | -34.35                     |
| 1,063.00                   | 1.93                   | 116.50             | 1,062.89                   | -9.22             | -2.35             | -9.17                        | 0.94                         | 0.59                        | -34.54                     |
| 1,155.00                   | 2.77                   | 109.91             | 1,154.82                   | -10.67            | 1.13              | -10.69                       | 0.96                         | 0.91                        | -7.16                      |
| 1,247.00                   | 1.45                   | 125.47             | 1,246.75                   | -12.10            | 4.16              | -12.19                       | 1.55                         | -1.43                       | 16.91                      |
| 1,343.00                   | 0.79                   | 270.58             | 1,342.74                   | -12.80            | 4.49              | -12.90                       | 2.24                         | -0.69                       | 151.16                     |



## Survey Report



|                  |                              |                                     |                                       |
|------------------|------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Advance Energy Partners      | <b>Local Co-ordinate Reference:</b> | Well Wool Head 20 State Com 301H      |
| <b>Project:</b>  | Lea Co. NM                   | <b>TVD Reference:</b>               | WELL @ 3773.51ft (Original Well Elev) |
| <b>Site:</b>     | Wool Head 20 State Com Pad D | <b>MD Reference:</b>                | WELL @ 3773.51ft (Original Well Elev) |
| <b>Well:</b>     | Wool Head 20 State Com 301H  | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | Wool Head 20 State Com 301H  | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | Wool Head 20 State Com 301H  | <b>Database:</b>                    | EDM 5000.1 Single User Db             |

| Survey              |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 1,438.00            | 0.70            | 206.06      | 1,437.74            | -13.32     | 3.58       | -13.39                | 0.84                  | -0.09                | -67.92              |
| 1,534.00            | 0.75            | 227.16      | 1,533.73            | -14.27     | 2.86       | -14.33                | 0.28                  | 0.05                 | 21.98               |
| 1,595.00            | 0.97            | 217.58      | 1,594.72            | -14.95     | 2.26       | -15.00                | 0.43                  | 0.36                 | -15.70              |
| 1,721.00            | 1.32            | 205.36      | 1,720.70            | -17.11     | 0.98       | -17.13                | 0.34                  | 0.28                 | -9.70               |
| 1,816.00            | 1.27            | 208.52      | 1,815.67            | -19.02     | 0.01       | -19.02                | 0.09                  | -0.05                | 3.33                |
| 1,912.00            | 1.32            | 213.27      | 1,911.65            | -20.88     | -1.10      | -20.85                | 0.12                  | 0.05                 | 4.95                |
| 2,007.00            | 1.19            | 207.73      | 2,006.63            | -22.67     | -2.16      | -22.61                | 0.19                  | -0.14                | -5.83               |
| 2,102.00            | 0.97            | 220.39      | 2,101.61            | -24.15     | -3.14      | -24.08                | 0.34                  | -0.23                | 13.33               |
| 2,198.00            | 1.10            | 210.28      | 2,197.59            | -25.57     | -4.13      | -25.47                | 0.23                  | 0.14                 | -10.53              |
| 2,294.00            | 0.84            | 201.76      | 2,293.58            | -27.02     | -4.86      | -26.90                | 0.31                  | -0.27                | -8.88               |
| 2,389.00            | 0.75            | 201.58      | 2,388.57            | -28.24     | -5.35      | -28.12                | 0.09                  | -0.09                | -0.19               |
| 2,580.00            | 0.53            | 194.81      | 2,579.56            | -30.26     | -6.03      | -30.12                | 0.12                  | -0.12                | -3.54               |
| 2,676.00            | 0.44            | 201.05      | 2,675.56            | -31.03     | -6.28      | -30.88                | 0.11                  | -0.09                | 6.50                |
| 2,772.00            | 0.31            | 202.28      | 2,771.55            | -31.62     | -6.51      | -31.46                | 0.14                  | -0.14                | 1.28                |
| 2,867.00            | 0.53            | 140.76      | 2,866.55            | -32.20     | -6.33      | -32.04                | 0.49                  | 0.23                 | -64.76              |
| 2,963.00            | 0.70            | 156.41      | 2,962.55            | -33.08     | -5.81      | -32.94                | 0.25                  | 0.18                 | 16.30               |
| 3,058.00            | 1.10            | 134.70      | 3,057.53            | -34.25     | -4.93      | -34.13                | 0.55                  | 0.42                 | -22.85              |
| 3,153.00            | 1.36            | 123.53      | 3,152.51            | -35.51     | -3.34      | -35.43                | 0.37                  | 0.27                 | -11.76              |
| 3,248.00            | 1.23            | 116.15      | 3,247.49            | -36.59     | -1.49      | -36.54                | 0.22                  | -0.14                | -7.77               |
| 3,344.00            | 1.27            | 106.48      | 3,343.46            | -37.34     | 0.46       | -37.34                | 0.22                  | 0.04                 | -10.07              |
| 3,440.00            | 1.27            | 86.71       | 3,439.44            | -37.58     | 2.54       | -37.63                | 0.45                  | 0.00                 | -20.59              |
| 3,631.00            | 1.05            | 84.60       | 3,630.40            | -37.30     | 6.39       | -37.43                | 0.12                  | -0.12                | -1.10               |
| 3,726.00            | 0.97            | 72.65       | 3,725.39            | -36.97     | 8.03       | -37.15                | 0.24                  | -0.08                | -12.58              |
| 3,822.00            | 0.97            | 72.38       | 3,821.37            | -36.49     | 9.58       | -36.69                | 0.00                  | 0.00                 | -0.28               |
| 3,918.00            | 1.01            | 66.93       | 3,917.36            | -35.91     | 11.13      | -36.15                | 0.11                  | 0.04                 | -5.68               |
| 4,014.00            | 0.84            | 76.16       | 4,013.35            | -35.41     | 12.59      | -35.68                | 0.23                  | -0.18                | 9.61                |
| 4,110.00            | 0.88            | 78.45       | 4,109.34            | -35.09     | 14.00      | -35.40                | 0.05                  | 0.04                 | 2.39                |
| 4,301.00            | 0.97            | 76.16       | 4,300.31            | -34.41     | 17.01      | -34.79                | 0.05                  | 0.05                 | -1.20               |
| 4,493.00            | 0.92            | 113.51      | 4,492.29            | -34.64     | 20.00      | -35.08                | 0.32                  | -0.03                | 19.45               |
| 4,588.00            | 0.31            | 1.01        | 4,587.28            | -34.69     | 20.70      | -35.14                | 1.13                  | -0.64                | -118.42             |
| 4,684.00            | 0.79            | 5.58        | 4,683.28            | -33.77     | 20.77      | -34.23                | 0.50                  | 0.50                 | 4.76                |
| 4,876.00            | 0.66            | 12.26       | 4,875.26            | -31.37     | 21.13      | -31.84                | 0.08                  | -0.07                | 3.48                |
| 4,971.00            | 0.66            | 26.77       | 4,970.26            | -30.35     | 21.50      | -30.82                | 0.18                  | 0.00                 | 15.27               |
| 5,067.00            | 0.88            | 25.36       | 5,066.25            | -29.19     | 22.06      | -29.68                | 0.23                  | 0.23                 | -1.47               |
| 5,163.00            | 0.92            | 7.43        | 5,162.24            | -27.76     | 22.48      | -28.26                | 0.30                  | 0.04                 | -18.68              |
| 5,352.00            | 0.84            | 10.07       | 5,351.21            | -24.89     | 22.91      | -25.40                | 0.05                  | -0.04                | 1.40                |
| 5,543.00            | 1.93            | 265.83      | 5,542.18            | -23.74     | 19.95      | -24.19                | 1.20                  | 0.57                 | -54.58              |
| 5,733.00            | 4.88            | 261.52      | 5,731.82            | -25.17     | 8.76       | -25.36                | 1.56                  | 1.55                 | -2.27               |
| 5,828.00            | 4.62            | 258.80      | 5,826.49            | -26.51     | 1.01       | -26.52                | 0.36                  | -0.27                | -2.86               |
| 5,924.00            | 4.62            | 256.95      | 5,922.18            | -28.13     | -6.54      | -27.98                | 0.16                  | 0.00                 | -1.93               |
| 6,020.00            | 3.30            | 235.16      | 6,017.95            | -30.58     | -12.58     | -30.29                | 2.06                  | -1.38                | -22.70              |
| 6,210.00            | 4.92            | 254.58      | 6,207.47            | -35.87     | -24.92     | -35.30                | 1.11                  | 0.85                 | 10.22               |
| 6,306.00            | 4.35            | 239.20      | 6,303.16            | -38.83     | -32.02     | -38.10                | 1.42                  | -0.59                | -16.02              |
| 6,401.00            | 4.48            | 213.18      | 6,397.89            | -43.78     | -37.15     | -42.94                | 2.09                  | 0.14                 | -27.39              |



## Survey Report



|                  |                              |                                     |                                       |
|------------------|------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Advance Energy Partners      | <b>Local Co-ordinate Reference:</b> | Well Wool Head 20 State Com 301H      |
| <b>Project:</b>  | Lea Co. NM                   | <b>TVD Reference:</b>               | WELL @ 3773.51ft (Original Well Elev) |
| <b>Site:</b>     | Wool Head 20 State Com Pad D | <b>MD Reference:</b>                | WELL @ 3773.51ft (Original Well Elev) |
| <b>Well:</b>     | Wool Head 20 State Com 301H  | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | Wool Head 20 State Com 301H  | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | Wool Head 20 State Com 301H  | <b>Database:</b>                    | EDM 5000.1 Single User Db             |

| Survey              |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 6,496.00            | 4.35            | 239.37      | 6,492.61            | -48.72     | -42.28     | -47.76                | 2.11                  | -0.14                | 27.57               |
| 6,591.00            | 4.31            | 243.07      | 6,587.34            | -52.18     | -48.56     | -51.07                | 0.30                  | -0.04                | 3.89                |
| 6,686.00            | 4.44            | 222.76      | 6,682.07            | -56.49     | -54.24     | -55.26                | 1.63                  | 0.14                 | -21.38              |
| 6,781.00            | 4.44            | 203.51      | 6,776.79            | -62.57     | -58.20     | -61.24                | 1.56                  | 0.00                 | -20.26              |
| 6,875.00            | 4.31            | 210.72      | 6,870.52            | -68.94     | -61.46     | -67.54                | 0.60                  | -0.14                | 7.67                |
| 7,067.00            | 4.31            | 212.22      | 7,061.98            | -81.24     | -68.99     | -79.67                | 0.06                  | 0.00                 | 0.78                |
| 7,163.00            | 4.13            | 215.82      | 7,157.72            | -87.10     | -72.94     | -85.44                | 0.33                  | -0.19                | 3.75                |
| 7,257.00            | 4.18            | 210.90      | 7,251.47            | -92.78     | -76.68     | -91.03                | 0.38                  | 0.05                 | -5.23               |
| 7,353.00            | 4.22            | 210.19      | 7,347.21            | -98.84     | -80.25     | -97.01                | 0.07                  | 0.04                 | -0.74               |
| 7,449.00            | 4.09            | 208.70      | 7,442.96            | -104.90    | -83.67     | -102.99               | 0.18                  | -0.14                | -1.55               |
| 7,544.00            | 3.56            | 207.12      | 7,537.75            | -110.49    | -86.64     | -108.51               | 0.57                  | -0.56                | -1.66               |
| 7,640.00            | 3.43            | 206.15      | 7,633.57            | -115.72    | -89.27     | -113.68               | 0.15                  | -0.14                | -1.01               |
| 7,736.00            | 3.43            | 213.62      | 7,729.40            | -120.69    | -92.12     | -118.59               | 0.47                  | 0.00                 | 7.78                |
| 7,832.00            | 1.19            | 241.40      | 7,825.31            | -123.56    | -94.59     | -121.40               | 2.54                  | -2.33                | 28.94               |
| 7,927.00            | 0.44            | 241.57      | 7,920.30            | -124.21    | -95.77     | -122.02               | 0.79                  | -0.79                | 0.18                |
| 8,023.00            | 0.70            | 209.49      | 8,016.30            | -124.89    | -96.39     | -122.69               | 0.42                  | 0.27                 | -33.42              |
| 8,119.00            | 0.84            | 215.73      | 8,112.29            | -125.97    | -97.09     | -123.76               | 0.17                  | 0.15                 | 6.50                |
| 8,215.00            | 0.92            | 210.11      | 8,208.28            | -127.21    | -97.88     | -124.98               | 0.12                  | 0.08                 | -5.85               |
| 8,311.00            | 1.01            | 206.77      | 8,304.27            | -128.63    | -98.65     | -126.38               | 0.11                  | 0.09                 | -3.48               |
| 8,407.00            | 0.88            | 200.70      | 8,400.25            | -130.08    | -99.29     | -127.81               | 0.17                  | -0.14                | -6.32               |
| 8,503.00            | 0.84            | 218.28      | 8,496.24            | -131.32    | -99.99     | -129.04               | 0.28                  | -0.04                | 18.31               |
| 8,598.00            | 0.97            | 225.93      | 8,591.23            | -132.43    | -101.00    | -130.12               | 0.19                  | 0.14                 | 8.05                |
| 8,694.00            | 1.14            | 220.65      | 8,687.21            | -133.72    | -102.21    | -131.38               | 0.20                  | 0.18                 | -5.50               |
| 8,790.00            | 1.19            | 214.59      | 8,783.19            | -135.26    | -103.39    | -132.90               | 0.14                  | 0.05                 | -6.31               |
| 8,886.00            | 1.19            | 224.96      | 8,879.17            | -136.79    | -104.66    | -134.40               | 0.22                  | 0.00                 | 10.80               |
| 8,982.00            | 1.45            | 233.92      | 8,975.15            | -138.21    | -106.35    | -135.78               | 0.35                  | 0.27                 | 9.33                |
| 9,078.00            | 1.54            | 245.26      | 9,071.12            | -139.46    | -108.50    | -136.99               | 0.32                  | 0.09                 | 11.81               |
| 9,174.00            | 1.10            | 271.89      | 9,167.09            | -139.97    | -110.60    | -137.45               | 0.77                  | -0.46                | 27.74               |
| 9,269.00            | 0.22            | 30.46       | 9,262.09            | -139.79    | -111.41    | -137.24               | 1.28                  | -0.93                | 124.81              |
| 9,365.00            | 0.13            | 139.88      | 9,358.09            | -139.71    | -111.25    | -137.17               | 0.30                  | -0.09                | 113.98              |
| 9,461.00            | 0.57            | 160.80      | 9,454.08            | -140.25    | -111.02    | -137.71               | 0.47                  | 0.46                 | 21.79               |
| 9,611.00            | 3.56            | 75.46       | 9,603.98            | -139.78    | -106.27    | -137.35               | 2.37                  | 1.99                 | -56.89              |
| 9,707.00            | 9.32            | 61.66       | 9,699.34            | -135.34    | -96.53     | -133.13               | 6.17                  | 6.00                 | -14.38              |
| 9,759.00            | 13.14           | 41.18       | 9,750.36            | -128.89    | -88.93     | -126.85               | 10.51                 | 7.35                 | -39.38              |
| 9,802.00            | 18.24           | 38.63       | 9,791.74            | -119.94    | -81.51     | -118.08               | 11.97                 | 11.86                | -5.93               |
| 9,850.00            | 23.30           | 37.23       | 9,836.61            | -106.51    | -71.07     | -104.88               | 10.59                 | 10.54                | -2.92               |
| 9,898.00            | 28.13           | 33.09       | 9,879.84            | -89.46     | -59.14     | -88.10                | 10.73                 | 10.06                | -8.63               |
| 9,993.00            | 36.35           | 17.80       | 9,960.26            | -43.74     | -38.23     | -42.86                | 12.13                 | 8.65                 | -16.09              |
| 10,060.00           | 44.44           | 12.53       | 10,011.26           | -1.85      | -27.05     | -1.24                 | 13.10                 | 12.07                | -7.87               |
| 10,089.00           | 47.91           | 9.98        | 10,031.34           | 18.67      | -22.98     | 19.18                 | 13.54                 | 11.97                | -8.79               |
| 10,185.00           | 64.26           | 2.07        | 10,084.78           | 97.58      | -15.19     | 97.89                 | 18.33                 | 17.03                | -8.24               |
| 10,206.00           | 68.88           | 0.14        | 10,093.13           | 116.84     | -14.82     | 117.14                | 23.56                 | 22.00                | -9.19               |
| 10,226.00           | 73.27           | 358.20      | 10,099.62           | 135.75     | -15.10     | 136.05                | 23.79                 | 21.95                | -9.70               |

## Survey Report



|                  |                              |                                     |                                       |
|------------------|------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Advance Energy Partners      | <b>Local Co-ordinate Reference:</b> | Well Wool Head 20 State Com 301H      |
| <b>Project:</b>  | Lea Co. NM                   | <b>TVD Reference:</b>               | WELL @ 3773.51ft (Original Well Elev) |
| <b>Site:</b>     | Wool Head 20 State Com Pad D | <b>MD Reference:</b>                | WELL @ 3773.51ft (Original Well Elev) |
| <b>Well:</b>     | Wool Head 20 State Com 301H  | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | Wool Head 20 State Com 301H  | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | Wool Head 20 State Com 301H  | <b>Database:</b>                    | EDM 5000.1 Single User Db             |

| Survey              |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 10,231.00           | 74.33           | 357.94      | 10,101.01           | 140.55     | -15.26     | 140.85                | 21.78                 | 21.20                | -5.20               |
| 10,312.00           | 86.64           | 356.44      | 10,114.38           | 220.18     | -19.19     | 220.55                | 15.31                 | 15.20                | -1.85               |
| 10,408.00           | 88.92           | 354.07      | 10,118.10           | 315.76     | -27.12     | 316.29                | 3.42                  | 2.38                 | -2.47               |
| 10,503.00           | 91.78           | 353.72      | 10,117.52           | 410.21     | -37.23     | 410.95                | 3.03                  | 3.01                 | -0.37               |
| 10,599.00           | 90.37           | 354.16      | 10,115.71           | 505.66     | -47.36     | 506.60                | 1.54                  | -1.47                | 0.46                |
| 10,695.00           | 91.16           | 354.07      | 10,114.43           | 601.14     | -57.20     | 602.28                | 0.83                  | 0.82                 | -0.09               |
| 10,791.00           | 89.85           | 355.04      | 10,113.59           | 696.70     | -66.31     | 698.02                | 1.70                  | -1.36                | 1.01                |
| 10,887.00           | 90.46           | 355.21      | 10,113.33           | 792.35     | -74.47     | 793.83                | 0.66                  | 0.64                 | 0.18                |
| 10,983.00           | 89.32           | 356.62      | 10,113.51           | 888.11     | -81.31     | 889.71                | 1.89                  | -1.19                | 1.47                |
| 11,079.00           | 87.30           | 358.20      | 10,116.34           | 983.96     | -85.64     | 985.64                | 2.67                  | -2.10                | 1.65                |
| 11,174.00           | 87.87           | 357.67      | 10,120.35           | 1,078.81   | -89.06     | 1,080.54              | 0.82                  | 0.60                 | -0.56               |
| 11,270.00           | 88.62           | 357.41      | 10,123.29           | 1,174.68   | -93.18     | 1,176.48              | 0.83                  | 0.78                 | -0.27               |
| 11,366.00           | 89.36           | 357.06      | 10,124.98           | 1,270.55   | -97.81     | 1,272.43              | 0.85                  | 0.77                 | -0.36               |
| 11,462.00           | 88.66           | 358.11      | 10,126.64           | 1,366.45   | -101.86    | 1,368.40              | 1.31                  | -0.73                | 1.09                |
| 11,557.00           | 89.76           | 359.08      | 10,127.95           | 1,461.41   | -104.19    | 1,463.38              | 1.54                  | 1.16                 | 1.02                |
| 11,653.00           | 86.99           | 358.91      | 10,130.67           | 1,557.35   | -105.87    | 1,559.33              | 2.89                  | -2.89                | -0.18               |
| 11,749.00           | 87.69           | 358.38      | 10,135.12           | 1,653.21   | -108.14    | 1,655.23              | 0.91                  | 0.73                 | -0.55               |
| 11,845.00           | 88.40           | 358.11      | 10,138.40           | 1,749.11   | -111.07    | 1,751.17              | 0.79                  | 0.74                 | -0.28               |
| 11,941.00           | 89.54           | 357.59      | 10,140.12           | 1,845.03   | -114.68    | 1,847.14              | 1.31                  | 1.19                 | -0.54               |
| 12,036.00           | 90.95           | 356.80      | 10,139.72           | 1,939.91   | -119.32    | 1,942.10              | 1.70                  | 1.48                 | -0.83               |
| 12,132.00           | 89.49           | 358.64      | 10,139.35           | 2,035.83   | -123.14    | 2,038.08              | 2.45                  | -1.52                | 1.92                |
| 12,228.00           | 87.56           | 1.01        | 10,141.82           | 2,131.78   | -123.44    | 2,134.02              | 3.18                  | -2.01                | 2.47                |
| 12,324.00           | 86.77           | 0.49        | 10,146.57           | 2,227.66   | -122.18    | 2,229.84              | 0.98                  | -0.82                | -0.54               |
| 12,420.00           | 86.77           | 359.78      | 10,151.98           | 2,323.50   | -121.96    | 2,325.66              | 0.74                  | 0.00                 | -0.74               |
| 12,515.00           | 87.56           | 359.26      | 10,156.68           | 2,418.38   | -122.75    | 2,420.53              | 1.00                  | 0.83                 | -0.55               |
| 12,611.00           | 87.82           | 359.26      | 10,160.55           | 2,514.30   | -123.99    | 2,516.45              | 0.27                  | 0.27                 | 0.00                |
| 12,707.00           | 88.48           | 359.17      | 10,163.64           | 2,610.24   | -125.30    | 2,612.40              | 0.69                  | 0.69                 | -0.09               |
| 12,802.00           | 90.20           | 359.08      | 10,164.74           | 2,705.22   | -126.76    | 2,707.38              | 1.81                  | 1.81                 | -0.09               |
| 12,897.00           | 91.47           | 359.08      | 10,163.35           | 2,800.19   | -128.28    | 2,802.37              | 1.34                  | 1.34                 | 0.00                |
| 12,992.00           | 91.43           | 359.87      | 10,160.95           | 2,895.16   | -129.15    | 2,897.33              | 0.83                  | -0.04                | 0.83                |
| 13,087.00           | 89.98           | 0.14        | 10,159.78           | 2,990.15   | -129.14    | 2,992.30              | 1.55                  | -1.53                | 0.28                |
| 13,182.00           | 91.91           | 0.14        | 10,158.22           | 3,085.13   | -128.91    | 3,087.25              | 2.03                  | 2.03                 | 0.00                |
| 13,278.00           | 90.02           | 0.31        | 10,156.60           | 3,181.11   | -128.53    | 3,183.20              | 1.98                  | -1.97                | 0.18                |
| 13,373.00           | 88.44           | 359.78      | 10,157.88           | 3,276.10   | -128.46    | 3,278.16              | 1.75                  | -1.66                | -0.56               |
| 13,468.00           | 89.93           | 359.26      | 10,159.23           | 3,371.08   | -129.25    | 3,373.14              | 1.66                  | 1.57                 | -0.55               |
| 13,563.00           | 88.18           | 359.87      | 10,160.79           | 3,466.06   | -129.98    | 3,468.11              | 1.95                  | -1.84                | 0.64                |
| 13,658.00           | 86.55           | 359.52      | 10,165.16           | 3,560.96   | -130.48    | 3,562.99              | 1.75                  | -1.72                | -0.37               |
| 13,753.00           | 87.43           | 358.55      | 10,170.15           | 3,655.81   | -132.08    | 3,657.86              | 1.38                  | 0.93                 | -1.02               |
| 13,847.00           | 88.84           | 358.20      | 10,173.21           | 3,749.72   | -134.74    | 3,751.80              | 1.55                  | 1.50                 | -0.37               |
| 13,942.00           | 89.41           | 357.24      | 10,174.66           | 3,844.63   | -138.52    | 3,846.78              | 1.18                  | 0.60                 | -1.01               |
| 14,038.00           | 90.15           | 358.55      | 10,175.03           | 3,940.56   | -142.05    | 3,942.76              | 1.57                  | 0.77                 | 1.36                |
| 14,134.00           | 91.60           | 358.38      | 10,173.56           | 4,036.52   | -144.62    | 4,038.75              | 1.52                  | 1.51                 | -0.18               |
| 14,230.00           | 90.46           | 359.52      | 10,171.84           | 4,132.48   | -146.38    | 4,134.73              | 1.68                  | -1.19                | 1.19                |

## Survey Report



|                  |                              |                                     |                                       |
|------------------|------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Advance Energy Partners      | <b>Local Co-ordinate Reference:</b> | Well Wool Head 20 State Com 301H      |
| <b>Project:</b>  | Lea Co. NM                   | <b>TVD Reference:</b>               | WELL @ 3773.51ft (Original Well Elev) |
| <b>Site:</b>     | Wool Head 20 State Com Pad D | <b>MD Reference:</b>                | WELL @ 3773.51ft (Original Well Elev) |
| <b>Well:</b>     | Wool Head 20 State Com 301H  | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | Wool Head 20 State Com 301H  | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | Wool Head 20 State Com 301H  | <b>Database:</b>                    | EDM 5000.1 Single User Db             |

| Survey              |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 14,325.00           | 88.62           | 0.40        | 10,172.60           | 4,227.47   | -146.44    | 4,229.70              | 2.15                  | -1.94                | 0.93                |
| 14,421.00           | 89.05           | 0.49        | 10,174.55           | 4,323.45   | -145.70    | 4,325.63              | 0.46                  | 0.45                 | 0.09                |
| 14,517.00           | 90.55           | 0.05        | 10,174.89           | 4,419.45   | -145.25    | 4,421.60              | 1.63                  | 1.56                 | -0.46               |
| 14,613.00           | 92.75           | 359.87      | 10,172.12           | 4,515.40   | -145.31    | 4,517.53              | 2.30                  | 2.29                 | -0.19               |
| 14,709.00           | 91.21           | 0.05        | 10,168.80           | 4,611.34   | -145.38    | 4,613.44              | 1.62                  | -1.60                | 0.19                |
| 14,805.00           | 90.37           | 359.78      | 10,167.48           | 4,707.33   | -145.52    | 4,709.41              | 0.92                  | -0.88                | -0.28               |
| 14,900.00           | 91.16           | 359.52      | 10,166.21           | 4,802.32   | -146.10    | 4,804.39              | 0.88                  | 0.83                 | -0.27               |
| 14,996.00           | 91.91           | 358.82      | 10,163.64           | 4,898.27   | -147.49    | 4,900.35              | 1.07                  | 0.78                 | -0.73               |
| 15,092.00           | 89.80           | 359.17      | 10,162.21           | 4,994.24   | -149.18    | 4,996.33              | 2.23                  | -2.20                | 0.36                |
| 15,187.00           | 90.77           | 359.26      | 10,161.74           | 5,089.23   | -150.48    | 5,091.33              | 1.03                  | 1.02                 | 0.09                |
| 15,283.00           | 91.43           | 358.47      | 10,159.89           | 5,185.19   | -152.38    | 5,187.31              | 1.07                  | 0.69                 | -0.82               |
| 15,379.00           | 91.87           | 359.70      | 10,157.13           | 5,281.14   | -153.91    | 5,283.26              | 1.36                  | 0.46                 | 1.28                |
| 15,475.00           | 91.12           | 359.61      | 10,154.62           | 5,377.10   | -154.49    | 5,379.22              | 0.79                  | -0.78                | -0.09               |
| 15,571.00           | 92.09           | 0.93        | 10,151.94           | 5,473.06   | -154.04    | 5,475.14              | 1.71                  | 1.01                 | 1.38                |
| 15,667.00           | 91.60           | 0.49        | 10,148.84           | 5,569.00   | -152.85    | 5,571.03              | 0.69                  | -0.51                | -0.46               |
| 15,762.00           | 93.23           | 0.75        | 10,144.84           | 5,663.91   | -151.82    | 5,665.89              | 1.74                  | 1.72                 | 0.27                |
| 15,858.00           | 91.03           | 0.75        | 10,141.27           | 5,759.83   | -150.57    | 5,761.76              | 2.29                  | -2.29                | 0.00                |
| 15,954.00           | 91.91           | 359.87      | 10,138.81           | 5,855.79   | -150.05    | 5,857.69              | 1.30                  | 0.92                 | -0.92               |
| 16,049.00           | 93.98           | 359.34      | 10,133.93           | 5,950.66   | -150.70    | 5,952.55              | 2.25                  | 2.18                 | -0.56               |
| 16,145.00           | 93.32           | 359.52      | 10,127.82           | 6,046.46   | -151.65    | 6,048.34              | 0.71                  | -0.69                | 0.19                |
| 16,240.00           | 90.02           | 359.43      | 10,125.05           | 6,141.40   | -152.52    | 6,143.28              | 3.47                  | -3.47                | -0.09               |
| 16,336.00           | 91.43           | 358.99      | 10,123.84           | 6,237.38   | -153.85    | 6,239.27              | 1.54                  | 1.47                 | -0.46               |
| 16,431.00           | 90.20           | 359.70      | 10,122.48           | 6,332.37   | -154.93    | 6,334.25              | 1.49                  | -1.29                | 0.75                |
| 16,527.00           | 93.01           | 359.43      | 10,119.80           | 6,428.32   | -155.66    | 6,430.19              | 2.94                  | 2.93                 | -0.28               |
| 16,622.00           | 93.10           | 359.34      | 10,114.73           | 6,523.18   | -156.68    | 6,525.05              | 0.13                  | 0.09                 | -0.09               |
| 16,718.00           | 92.70           | 359.26      | 10,109.88           | 6,619.05   | -157.85    | 6,620.92              | 0.42                  | -0.42                | -0.08               |
| 16,814.00           | 93.36           | 359.26      | 10,104.80           | 6,714.90   | -159.09    | 6,716.78              | 0.69                  | 0.69                 | 0.00                |
| 16,909.00           | 92.35           | 358.73      | 10,100.07           | 6,809.77   | -160.75    | 6,811.66              | 1.20                  | -1.06                | -0.56               |
| 17,005.00           | 92.48           | 358.64      | 10,096.02           | 6,905.66   | -162.95    | 6,907.58              | 0.16                  | 0.14                 | -0.09               |
| 17,099.00           | 91.34           | 359.08      | 10,092.89           | 6,999.59   | -164.82    | 7,001.52              | 1.30                  | -1.21                | 0.47                |
| 17,195.00           | 92.13           | 358.99      | 10,089.99           | 7,095.53   | -166.44    | 7,097.48              | 0.83                  | 0.82                 | -0.09               |
| 17,291.00           | 93.58           | 358.55      | 10,085.20           | 7,191.38   | -168.50    | 7,193.35              | 1.58                  | 1.51                 | -0.46               |
| 17,387.00           | 95.16           | 359.61      | 10,077.89           | 7,287.09   | -170.03    | 7,289.07              | 1.98                  | 1.65                 | 1.10                |
| 17,483.00           | 93.05           | 359.70      | 10,071.02           | 7,382.83   | -170.61    | 7,384.80              | 2.20                  | -2.20                | 0.09                |
| 17,579.00           | 93.23           | 359.17      | 10,065.76           | 7,478.68   | -171.56    | 7,480.65              | 0.58                  | 0.19                 | -0.55               |
| 17,675.00           | 92.70           | 358.64      | 10,060.79           | 7,574.54   | -173.39    | 7,576.52              | 0.78                  | -0.55                | -0.55               |
| 17,708.00           | 93.67           | 358.47      | 10,058.96           | 7,607.48   | -174.22    | 7,609.47              | 2.98                  | 2.94                 | -0.52               |
| 17,771.00           | 93.67           | 358.47      | 10,054.93           | 7,670.32   | -175.90    | 7,672.34              | 0.00                  | 0.00                 | 0.00                |
| Proj TD @ 17771'MD  |                 |             |                     |            |            |                       |                       |                      |                     |

Survey Report



|           |                              |                              |                                       |
|-----------|------------------------------|------------------------------|---------------------------------------|
| Company:  | Advance Energy Partners      | Local Co-ordinate Reference: | Well Wool Head 20 State Com 301H      |
| Project:  | Lea Co. NM                   | TVD Reference:               | WELL @ 3773.51ft (Original Well Elev) |
| Site:     | Wool Head 20 State Com Pad D | MD Reference:                | WELL @ 3773.51ft (Original Well Elev) |
| Well:     | Wool Head 20 State Com 301H  | North Reference:             | Grid                                  |
| Wellbore: | Wool Head 20 State Com 301H  | Survey Calculation Method:   | Minimum Curvature                     |
| Design:   | Wool Head 20 State Com 301H  | Database:                    | EDM 5000.1 Single User Db             |

| Design Annotations  |                     |                   |            |                    |
|---------------------|---------------------|-------------------|------------|--------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            | Comment            |
|                     |                     | +N/-S (ft)        | +E/-W (ft) |                    |
| 17,771.00           | 10,054.93           | 7,670.32          | -175.90    | Proj TD @ 17771'MD |

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

# **Advance Energy Partners**

**Lea Co. NM**

**Wool Head 20 State Com Pad D**

**Wool Head 20 State Com 301H**

**Wool Head 20 State Com 301H**

**Design: Wool Head 20 State Com 301H**

## **Survey Report - Geographic**

**18 June, 2021**



**GEO MAG**  
Technologies



## Survey Report - Geographic



|                  |                              |                                     |                                       |
|------------------|------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Advance Energy Partners      | <b>Local Co-ordinate Reference:</b> | Well Wool Head 20 State Com 301H      |
| <b>Project:</b>  | Lea Co. NM                   | <b>TVD Reference:</b>               | WELL @ 3773.51ft (Original Well Elev) |
| <b>Site:</b>     | Wool Head 20 State Com Pad D | <b>MD Reference:</b>                | WELL @ 3773.51ft (Original Well Elev) |
| <b>Well:</b>     | Wool Head 20 State Com 301H  | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | Wool Head 20 State Com 301H  | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | Wool Head 20 State Com 301H  | <b>Database:</b>                    | EDM 5000.1 Single User Db             |

|                    |                            |                      |                |
|--------------------|----------------------------|----------------------|----------------|
| <b>Project</b>     | Lea Co. NM, Lea County, NM |                      |                |
| <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                  |          | Wool Head 20 State Com Pad D |                  |                   |                  |
| Site Position:        |          | Northing:                    | 531,061.491 usft | Latitude:         | 32° 27' 28.156 N |
| From:                 | Lat/Long | Easting:                     | 767,293.490 usft | Longitude:        | 103° 36' 2.736 W |
| Position Uncertainty: | 0.00 ft  | Slot Radius:                 | 13.200 in        | Grid Convergence: | 0.39 °           |

| Well                 | Wool Head 20 State Com 301H |         |                     |                  |               |                  |
|----------------------|-----------------------------|---------|---------------------|------------------|---------------|------------------|
| Well Position        | +N/-S                       | 0.00 ft | Northing:           | 531,036.608 usft | Latitude:     | 32° 27' 27.907 N |
|                      | +E/-W                       | 0.00 ft | Easting:            | 767,325.741 usft | Longitude:    | 103° 36' 2.362 W |
| Position Uncertainty |                             | 0.00 ft | Wellhead Elevation: | ft               | Ground Level: | 3,741.01 ft      |

|                  |                             |                    |                        |                      |                            |
|------------------|-----------------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Wool Head 20 State Com 301H |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b>           | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2020                    | 5/5/2021           | 6.59                   | 60.11                | 47,638.49359506            |

|                          |                              |                   |                   |                      |      |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|------|
| <b>Design</b>            | Wool Head 20 State Com 301H  |                   |                   |                      |      |
| <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) (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Direction (°)</b> |      |
|                          | 0.00                         | 0.00              | 0.00              | 358.71               |      |

|                       |                |                                         |                  |                    |  |
|-----------------------|----------------|-----------------------------------------|------------------|--------------------|--|
| <b>Survey Program</b> | <b>Date</b>    | 6/18/2021                               |                  |                    |  |
| <b>From (ft)</b>      | <b>To (ft)</b> | <b>Survey (Wellbore)</b>                | <b>Tool Name</b> | <b>Description</b> |  |
| 202.00                | 17,771.00      | Survey #1 (Wool Head 20 State Com 301H) | MWD+HRGM         | OWSG MWD + HRGM    |  |

|                            |                        |                    |                            |                   |                   |                            |                           |                  |                  |  |
|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|----------------------------|---------------------------|------------------|------------------|--|
| <b>Survey</b>              |                        |                    |                            |                   |                   |                            |                           |                  |                  |  |
| <b>Measured Depth (ft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Map Northing (usft)</b> | <b>Map Easting (usft)</b> | <b>Latitude</b>  | <b>Longitude</b> |  |
| 0.00                       | 0.00                   | 0.00               | 0.00                       | 0.00              | 0.00              | 531,036.608                | 767,325.741               | 32° 27' 27.907 N | 103° 36' 2.362 W |  |
| 202.00                     | 0.53                   | 164.14             | 202.00                     | -0.90             | 0.26              | 531,035.709                | 767,325.996               | 32° 27' 27.898 N | 103° 36' 2.359 W |  |
| 325.00                     | 0.66                   | 203.87             | 324.99                     | -2.09             | 0.12              | 531,034.514                | 767,325.865               | 32° 27' 27.886 N | 103° 36' 2.360 W |  |
| 509.00                     | 0.62                   | 251.50             | 508.98                     | -3.38             | -1.25             | 531,033.229                | 767,324.492               | 32° 27' 27.874 N | 103° 36' 2.376 W |  |
| 693.00                     | 1.01                   | 243.94             | 692.96                     | -4.41             | -3.65             | 531,032.201                | 767,322.091               | 32° 27' 27.864 N | 103° 36' 2.405 W |  |
| 879.00                     | 0.84                   | 180.05             | 878.94                     | -6.49             | -5.12             | 531,030.117                | 767,320.617               | 32° 27' 27.843 N | 103° 36' 2.422 W |  |
| 1,063.00                   | 1.93                   | 116.50             | 1,062.89                   | -9.22             | -2.35             | 531,027.386                | 767,323.389               | 32° 27' 27.816 N | 103° 36' 2.390 W |  |
| 1,155.00                   | 2.77                   | 109.91             | 1,154.82                   | -10.67            | 1.13              | 531,025.938                | 767,326.866               | 32° 27' 27.802 N | 103° 36' 2.349 W |  |
| 1,247.00                   | 1.45                   | 125.47             | 1,246.75                   | -12.10            | 4.16              | 531,024.505                | 767,329.904               | 32° 27' 27.787 N | 103° 36' 2.314 W |  |
| 1,343.00                   | 0.79                   | 270.58             | 1,342.74                   | -12.80            | 4.49              | 531,023.807                | 767,330.231               | 32° 27' 27.780 N | 103° 36' 2.310 W |  |
| 1,438.00                   | 0.70                   | 206.06             | 1,437.74                   | -13.32            | 3.58              | 531,023.292                | 767,329.322               | 32° 27' 27.775 N | 103° 36' 2.321 W |  |
| 1,534.00                   | 0.75                   | 227.16             | 1,533.73                   | -14.27            | 2.86              | 531,022.338                | 767,328.603               | 32° 27' 27.766 N | 103° 36' 2.329 W |  |

## Survey Report - Geographic



|                  |                              |                                     |                                       |
|------------------|------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Advance Energy Partners      | <b>Local Co-ordinate Reference:</b> | Well Wool Head 20 State Com 301H      |
| <b>Project:</b>  | Lea Co. NM                   | <b>TVD Reference:</b>               | WELL @ 3773.51ft (Original Well Elev) |
| <b>Site:</b>     | Wool Head 20 State Com Pad D | <b>MD Reference:</b>                | WELL @ 3773.51ft (Original Well Elev) |
| <b>Well:</b>     | Wool Head 20 State Com 301H  | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | Wool Head 20 State Com 301H  | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | Wool Head 20 State Com 301H  | <b>Database:</b>                    | EDM 5000.1 Single User Db             |

| Survey              |                 |             |                     |            |            |                     |                    |                  |                  |
|---------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|------------------|------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude         | Longitude        |
| 1,595.00            | 0.97            | 217.58      | 1,594.72            | -14.95     | 2.26       | 531,021.658         | 767,327.996        | 32° 27' 27.759 N | 103° 36' 2.336 W |
| 1,721.00            | 1.32            | 205.36      | 1,720.70            | -17.11     | 0.98       | 531,019.501         | 767,326.724        | 32° 27' 27.738 N | 103° 36' 2.351 W |
| 1,816.00            | 1.27            | 208.52      | 1,815.67            | -19.02     | 0.01       | 531,017.587         | 767,325.752        | 32° 27' 27.719 N | 103° 36' 2.363 W |
| 1,912.00            | 1.32            | 213.27      | 1,911.65            | -20.88     | -1.10      | 531,015.728         | 767,324.638        | 32° 27' 27.701 N | 103° 36' 2.376 W |
| 2,007.00            | 1.19            | 207.73      | 2,006.63            | -22.67     | -2.16      | 531,013.940         | 767,323.578        | 32° 27' 27.683 N | 103° 36' 2.389 W |
| 2,102.00            | 0.97            | 220.39      | 2,101.61            | -24.15     | -3.14      | 531,012.454         | 767,322.598        | 32° 27' 27.668 N | 103° 36' 2.400 W |
| 2,198.00            | 1.10            | 210.28      | 2,197.59            | -25.57     | -4.13      | 531,011.039         | 767,321.607        | 32° 27' 27.654 N | 103° 36' 2.412 W |
| 2,294.00            | 0.84            | 201.76      | 2,293.58            | -27.02     | -4.86      | 531,009.590         | 767,320.882        | 32° 27' 27.640 N | 103° 36' 2.420 W |
| 2,389.00            | 0.75            | 201.58      | 2,388.57            | -28.24     | -5.35      | 531,008.365         | 767,320.395        | 32° 27' 27.628 N | 103° 36' 2.426 W |
| 2,580.00            | 0.53            | 194.81      | 2,579.56            | -30.26     | -6.03      | 531,006.349         | 767,319.709        | 32° 27' 27.608 N | 103° 36' 2.434 W |
| 2,676.00            | 0.44            | 201.05      | 2,675.56            | -31.03     | -6.28      | 531,005.575         | 767,319.463        | 32° 27' 27.601 N | 103° 36' 2.437 W |
| 2,772.00            | 0.31            | 202.28      | 2,771.55            | -31.62     | -6.51      | 531,004.991         | 767,319.233        | 32° 27' 27.595 N | 103° 36' 2.440 W |
| 2,867.00            | 0.53            | 140.76      | 2,866.55            | -32.20     | -6.33      | 531,004.413         | 767,319.413        | 32° 27' 27.589 N | 103° 36' 2.438 W |
| 2,963.00            | 0.70            | 156.41      | 2,962.55            | -33.08     | -5.81      | 531,003.532         | 767,319.929        | 32° 27' 27.580 N | 103° 36' 2.432 W |
| 3,058.00            | 1.10            | 134.70      | 3,057.53            | -34.25     | -4.93      | 531,002.358         | 767,320.809        | 32° 27' 27.569 N | 103° 36' 2.422 W |
| 3,153.00            | 1.36            | 123.53      | 3,152.51            | -35.51     | -3.34      | 531,001.094         | 767,322.397        | 32° 27' 27.556 N | 103° 36' 2.403 W |
| 3,248.00            | 1.23            | 116.15      | 3,247.49            | -36.59     | -1.49      | 531,000.022         | 767,324.252        | 32° 27' 27.545 N | 103° 36' 2.382 W |
| 3,344.00            | 1.27            | 106.48      | 3,343.46            | -37.34     | 0.46       | 530,999.266         | 767,326.197        | 32° 27' 27.538 N | 103° 36' 2.359 W |
| 3,440.00            | 1.27            | 86.71       | 3,439.44            | -37.58     | 2.54       | 530,999.026         | 767,328.279        | 32° 27' 27.535 N | 103° 36' 2.335 W |
| 3,631.00            | 1.05            | 84.60       | 3,630.40            | -37.30     | 6.39       | 530,999.312         | 767,332.135        | 32° 27' 27.538 N | 103° 36' 2.290 W |
| 3,726.00            | 0.97            | 72.65       | 3,725.39            | -36.97     | 8.03       | 530,999.633         | 767,333.769        | 32° 27' 27.541 N | 103° 36' 2.271 W |
| 3,822.00            | 0.97            | 72.38       | 3,821.37            | -36.49     | 9.58       | 531,000.122         | 767,335.319        | 32° 27' 27.546 N | 103° 36' 2.253 W |
| 3,918.00            | 1.01            | 66.93       | 3,917.36            | -35.91     | 11.13      | 531,000.699         | 767,336.872        | 32° 27' 27.551 N | 103° 36' 2.235 W |
| 4,014.00            | 0.84            | 76.16       | 4,013.35            | -35.41     | 12.59      | 531,001.199         | 767,338.333        | 32° 27' 27.556 N | 103° 36' 2.217 W |
| 4,110.00            | 0.88            | 78.45       | 4,109.34            | -35.09     | 14.00      | 531,001.515         | 767,339.739        | 32° 27' 27.559 N | 103° 36' 2.201 W |
| 4,301.00            | 0.97            | 76.16       | 4,300.31            | -34.41     | 17.01      | 531,002.195         | 767,342.746        | 32° 27' 27.566 N | 103° 36' 2.166 W |
| 4,493.00            | 0.92            | 113.51      | 4,492.29            | -34.64     | 20.00      | 531,001.969         | 767,345.737        | 32° 27' 27.563 N | 103° 36' 2.131 W |
| 4,588.00            | 0.31            | 1.01        | 4,587.28            | -34.69     | 20.70      | 531,001.922         | 767,346.441        | 32° 27' 27.563 N | 103° 36' 2.123 W |
| 4,684.00            | 0.79            | 5.58        | 4,683.28            | -33.77     | 20.77      | 531,002.840         | 767,346.510        | 32° 27' 27.572 N | 103° 36' 2.122 W |
| 4,876.00            | 0.66            | 12.26       | 4,875.26            | -31.37     | 21.13      | 531,005.238         | 767,346.874        | 32° 27' 27.595 N | 103° 36' 2.117 W |
| 4,971.00            | 0.66            | 26.77       | 4,970.26            | -30.35     | 21.50      | 531,006.262         | 767,347.236        | 32° 27' 27.605 N | 103° 36' 2.113 W |
| 5,067.00            | 0.88            | 25.36       | 5,066.25            | -29.19     | 22.06      | 531,007.421         | 767,347.801        | 32° 27' 27.617 N | 103° 36' 2.106 W |
| 5,163.00            | 0.92            | 7.43        | 5,162.24            | -27.76     | 22.48      | 531,008.852         | 767,348.216        | 32° 27' 27.631 N | 103° 36' 2.102 W |
| 5,352.00            | 0.84            | 10.07       | 5,351.21            | -24.89     | 22.91      | 531,011.720         | 767,348.655        | 32° 27' 27.659 N | 103° 36' 2.096 W |
| 5,543.00            | 1.93            | 265.83      | 5,542.18            | -23.74     | 19.95      | 531,012.865         | 767,345.691        | 32° 27' 27.671 N | 103° 36' 2.131 W |
| 5,733.00            | 4.88            | 261.52      | 5,731.82            | -25.17     | 8.76       | 531,011.440         | 767,334.505        | 32° 27' 27.658 N | 103° 36' 2.261 W |
| 5,828.00            | 4.62            | 258.80      | 5,826.49            | -26.51     | 1.01       | 531,010.101         | 767,326.755        | 32° 27' 27.645 N | 103° 36' 2.352 W |
| 5,924.00            | 4.62            | 256.95      | 5,922.18            | -28.13     | -6.54      | 531,008.477         | 767,319.196        | 32° 27' 27.629 N | 103° 36' 2.440 W |
| 6,020.00            | 3.30            | 235.16      | 6,017.95            | -30.58     | -12.58     | 531,006.026         | 767,313.161        | 32° 27' 27.605 N | 103° 36' 2.511 W |
| 6,210.00            | 4.92            | 254.58      | 6,207.47            | -35.87     | -24.92     | 531,000.735         | 767,300.817        | 32° 27' 27.554 N | 103° 36' 2.655 W |
| 6,306.00            | 4.35            | 239.20      | 6,303.16            | -38.83     | -32.02     | 530,997.776         | 767,293.721        | 32° 27' 27.525 N | 103° 36' 2.738 W |
| 6,401.00            | 4.48            | 213.18      | 6,397.89            | -43.78     | -37.15     | 530,992.825         | 767,288.595        | 32° 27' 27.476 N | 103° 36' 2.799 W |
| 6,496.00            | 4.35            | 239.37      | 6,492.61            | -48.72     | -42.28     | 530,987.884         | 767,283.464        | 32° 27' 27.428 N | 103° 36' 2.859 W |
| 6,591.00            | 4.31            | 243.07      | 6,587.34            | -52.18     | -48.56     | 530,984.431         | 767,277.181        | 32° 27' 27.394 N | 103° 36' 2.932 W |
| 6,686.00            | 4.44            | 222.76      | 6,682.07            | -56.49     | -54.24     | 530,980.114         | 767,271.502        | 32° 27' 27.352 N | 103° 36' 2.999 W |
| 6,781.00            | 4.44            | 203.51      | 6,776.79            | -62.57     | -58.20     | 530,974.042         | 767,267.538        | 32° 27' 27.292 N | 103° 36' 3.046 W |
| 6,875.00            | 4.31            | 210.72      | 6,870.52            | -68.94     | -61.46     | 530,967.669         | 767,264.282        | 32° 27' 27.229 N | 103° 36' 3.084 W |
| 7,067.00            | 4.31            | 212.22      | 7,061.98            | -81.24     | -68.99     | 530,955.363         | 767,256.750        | 32° 27' 27.108 N | 103° 36' 3.173 W |
| 7,163.00            | 4.13            | 215.82      | 7,157.72            | -87.10     | -72.94     | 530,949.508         | 767,252.804        | 32° 27' 27.050 N | 103° 36' 3.220 W |
| 7,257.00            | 4.18            | 210.90      | 7,251.47            | -92.78     | -76.68     | 530,943.824         | 767,249.063        | 32° 27' 26.994 N | 103° 36' 3.264 W |
| 7,353.00            | 4.22            | 210.19      | 7,347.21            | -98.84     | -80.25     | 530,937.769         | 767,245.490        | 32° 27' 26.935 N | 103° 36' 3.306 W |
| 7,449.00            | 4.09            | 208.70      | 7,442.96            | -104.90    | -83.67     | 530,931.713         | 767,242.070        | 32° 27' 26.875 N | 103° 36' 3.346 W |
| 7,544.00            | 3.56            | 207.12      | 7,537.75            | -110.49    | -86.64     | 530,926.116         | 767,239.099        | 32° 27' 26.820 N | 103° 36' 3.382 W |
| 7,640.00            | 3.43            | 206.15      | 7,633.57            | -115.72    | -89.27     | 530,920.885         | 767,236.474        | 32° 27' 26.768 N | 103° 36' 3.413 W |
| 7,736.00            | 3.43            | 213.62      | 7,729.40            | -120.69    | -92.12     | 530,915.916         | 767,233.619        | 32° 27' 26.719 N | 103° 36' 3.446 W |



## Survey Report - Geographic



|                  |                              |                                     |                                       |
|------------------|------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Advance Energy Partners      | <b>Local Co-ordinate Reference:</b> | Well Wool Head 20 State Com 301H      |
| <b>Project:</b>  | Lea Co. NM                   | <b>TVD Reference:</b>               | WELL @ 3773.51ft (Original Well Elev) |
| <b>Site:</b>     | Wool Head 20 State Com Pad D | <b>MD Reference:</b>                | WELL @ 3773.51ft (Original Well Elev) |
| <b>Well:</b>     | Wool Head 20 State Com 301H  | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | Wool Head 20 State Com 301H  | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | Wool Head 20 State Com 301H  | <b>Database:</b>                    | EDM 5000.1 Single User Db             |

| Survey              |                 |             |                     |            |            |                     |                    |                  |                  |
|---------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|------------------|------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude         | Longitude        |
| 7,832.00            | 1.19            | 241.40      | 7,825.31            | -123.56    | -94.59     | 530,913.047         | 767,231.153        | 32° 27' 26.691 N | 103° 36' 3.475 W |
| 7,927.00            | 0.44            | 241.57      | 7,920.30            | -124.21    | -95.77     | 530,912.401         | 767,229.966        | 32° 27' 26.685 N | 103° 36' 3.489 W |
| 8,023.00            | 0.70            | 209.49      | 8,016.30            | -124.89    | -96.39     | 530,911.715         | 767,229.353        | 32° 27' 26.678 N | 103° 36' 3.497 W |
| 8,119.00            | 0.84            | 215.73      | 8,112.29            | -125.97    | -97.09     | 530,910.634         | 767,228.654        | 32° 27' 26.667 N | 103° 36' 3.505 W |
| 8,215.00            | 0.92            | 210.11      | 8,208.28            | -127.21    | -97.88     | 530,909.396         | 767,227.856        | 32° 27' 26.655 N | 103° 36' 3.514 W |
| 8,311.00            | 1.01            | 206.77      | 8,304.27            | -128.63    | -98.65     | 530,907.974         | 767,227.088        | 32° 27' 26.641 N | 103° 36' 3.523 W |
| 8,407.00            | 0.88            | 200.70      | 8,400.25            | -130.08    | -99.29     | 530,906.529         | 767,226.447        | 32° 27' 26.627 N | 103° 36' 3.531 W |
| 8,503.00            | 0.84            | 218.28      | 8,496.24            | -131.32    | -99.99     | 530,905.287         | 767,225.750        | 32° 27' 26.615 N | 103° 36' 3.539 W |
| 8,598.00            | 0.97            | 225.93      | 8,591.23            | -132.43    | -101.00    | 530,904.181         | 767,224.741        | 32° 27' 26.604 N | 103° 36' 3.551 W |
| 8,694.00            | 1.14            | 220.65      | 8,687.21            | -133.72    | -102.21    | 530,902.891         | 767,223.535        | 32° 27' 26.591 N | 103° 36' 3.565 W |
| 8,790.00            | 1.19            | 214.59      | 8,783.19            | -135.26    | -103.39    | 530,901.346         | 767,222.347        | 32° 27' 26.576 N | 103° 36' 3.579 W |
| 8,886.00            | 1.19            | 224.96      | 8,879.17            | -136.79    | -104.66    | 530,899.820         | 767,221.077        | 32° 27' 26.561 N | 103° 36' 3.594 W |
| 8,982.00            | 1.45            | 233.92      | 8,975.15            | -138.21    | -106.35    | 530,898.399         | 767,219.391        | 32° 27' 26.547 N | 103° 36' 3.614 W |
| 9,078.00            | 1.54            | 245.26      | 9,071.12            | -139.46    | -108.50    | 530,897.144         | 767,217.238        | 32° 27' 26.535 N | 103° 36' 3.639 W |
| 9,174.00            | 1.10            | 271.89      | 9,167.09            | -139.97    | -110.60    | 530,896.634         | 767,215.145        | 32° 27' 26.530 N | 103° 36' 3.664 W |
| 9,269.00            | 0.22            | 30.46       | 9,262.09            | -139.79    | -111.41    | 530,896.822         | 767,214.326        | 32° 27' 26.532 N | 103° 36' 3.673 W |
| 9,365.00            | 0.13            | 139.88      | 9,358.09            | -139.71    | -111.25    | 530,896.897         | 767,214.490        | 32° 27' 26.532 N | 103° 36' 3.671 W |
| 9,461.00            | 0.57            | 160.80      | 9,454.08            | -140.25    | -111.02    | 530,896.363         | 767,214.717        | 32° 27' 26.527 N | 103° 36' 3.669 W |
| 9,611.00            | 3.56            | 75.46       | 9,603.98            | -139.78    | -106.27    | 530,896.828         | 767,219.472        | 32° 27' 26.531 N | 103° 36' 3.613 W |
| 9,707.00            | 9.32            | 61.66       | 9,699.34            | -135.34    | -96.53     | 530,901.270         | 767,229.207        | 32° 27' 26.575 N | 103° 36' 3.499 W |
| 9,759.00            | 13.14           | 41.18       | 9,750.36            | -128.89    | -88.93     | 530,907.722         | 767,236.811        | 32° 27' 26.638 N | 103° 36' 3.410 W |
| 9,802.00            | 18.24           | 38.63       | 9,791.74            | -119.94    | -81.51     | 530,916.664         | 767,244.235        | 32° 27' 26.726 N | 103° 36' 3.322 W |
| 9,850.00            | 23.30           | 37.23       | 9,836.61            | -106.51    | -71.07     | 530,930.100         | 767,254.675        | 32° 27' 26.858 N | 103° 36' 3.200 W |
| 9,898.00            | 28.13           | 33.09       | 9,879.84            | -89.46     | -59.14     | 530,947.150         | 767,266.604        | 32° 27' 27.026 N | 103° 36' 3.059 W |
| 9,993.00            | 36.35           | 17.80       | 9,960.26            | -43.74     | -38.23     | 530,992.873         | 767,287.508        | 32° 27' 27.477 N | 103° 36' 2.811 W |
| 10,060.00           | 44.44           | 12.53       | 10,011.26           | -1.85      | -27.05     | 531,034.757         | 767,298.688        | 32° 27' 27.891 N | 103° 36' 2.677 W |
| 10,089.00           | 47.91           | 9.98        | 10,031.34           | 18.67      | -22.98     | 531,055.273         | 767,302.757        | 32° 27' 28.093 N | 103° 36' 2.628 W |
| 10,185.00           | 64.26           | 2.07        | 10,084.78           | 97.58      | -15.19     | 531,134.185         | 767,310.553        | 32° 27' 28.874 N | 103° 36' 2.531 W |
| 10,206.00           | 68.88           | 0.14        | 10,093.13           | 116.84     | -14.82     | 531,153.443         | 767,310.919        | 32° 27' 29.064 N | 103° 36' 2.525 W |
| 10,226.00           | 73.27           | 358.20      | 10,099.62           | 135.75     | -15.10     | 531,172.354         | 767,310.641        | 32° 27' 29.251 N | 103° 36' 2.527 W |
| 10,231.00           | 74.33           | 357.94      | 10,101.01           | 140.55     | -15.26     | 531,177.153         | 767,310.479        | 32° 27' 29.299 N | 103° 36' 2.528 W |
| 10,312.00           | 86.64           | 356.44      | 10,114.38           | 220.18     | -19.19     | 531,256.786         | 767,306.552        | 32° 27' 30.087 N | 103° 36' 2.568 W |
| 10,408.00           | 88.92           | 354.07      | 10,118.10           | 315.76     | -27.12     | 531,352.371         | 767,298.616        | 32° 27' 31.033 N | 103° 36' 2.653 W |
| 10,503.00           | 91.78           | 353.72      | 10,117.52           | 410.21     | -37.23     | 531,446.821         | 767,288.514        | 32° 27' 31.969 N | 103° 36' 2.763 W |
| 10,599.00           | 90.37           | 354.16      | 10,115.71           | 505.66     | -47.36     | 531,542.265         | 767,278.381        | 32° 27' 32.914 N | 103° 36' 2.874 W |
| 10,695.00           | 91.16           | 354.07      | 10,114.43           | 601.14     | -57.20     | 531,637.749         | 767,268.539        | 32° 27' 33.859 N | 103° 36' 2.981 W |
| 10,791.00           | 89.85           | 355.04      | 10,113.59           | 696.70     | -66.31     | 531,733.309         | 767,259.431        | 32° 27' 34.805 N | 103° 36' 3.080 W |
| 10,887.00           | 90.46           | 355.21      | 10,113.33           | 792.35     | -74.47     | 531,828.961         | 767,251.272        | 32° 27' 35.752 N | 103° 36' 3.167 W |
| 10,983.00           | 89.32           | 356.62      | 10,113.51           | 888.11     | -81.31     | 531,924.712         | 767,244.434        | 32° 27' 36.700 N | 103° 36' 3.239 W |
| 11,079.00           | 87.30           | 358.20      | 10,116.34           | 983.96     | -85.64     | 532,020.564         | 767,240.097        | 32° 27' 37.649 N | 103° 36' 3.282 W |
| 11,174.00           | 87.87           | 357.67      | 10,120.35           | 1,078.81   | -89.06     | 532,115.417         | 767,236.677        | 32° 27' 38.588 N | 103° 36' 3.315 W |
| 11,270.00           | 88.62           | 357.41      | 10,123.29           | 1,174.68   | -93.18     | 532,211.283         | 767,232.559        | 32° 27' 39.537 N | 103° 36' 3.355 W |
| 11,366.00           | 89.36           | 357.06      | 10,124.98           | 1,270.55   | -97.81     | 532,307.155         | 767,227.928        | 32° 27' 40.486 N | 103° 36' 3.401 W |
| 11,462.00           | 88.66           | 358.11      | 10,126.64           | 1,366.45   | -101.86    | 532,403.054         | 767,223.884        | 32° 27' 41.435 N | 103° 36' 3.441 W |
| 11,557.00           | 89.76           | 359.08      | 10,127.95           | 1,461.41   | -104.19    | 532,498.013         | 767,221.555        | 32° 27' 42.375 N | 103° 36' 3.461 W |
| 11,653.00           | 86.99           | 358.91      | 10,130.67           | 1,557.35   | -105.87    | 532,593.950         | 767,219.872        | 32° 27' 43.324 N | 103° 36' 3.472 W |
| 11,749.00           | 87.69           | 358.38      | 10,135.12           | 1,653.21   | -108.14    | 532,689.819         | 767,217.604        | 32° 27' 44.273 N | 103° 36' 3.491 W |
| 11,845.00           | 88.40           | 358.11      | 10,138.40           | 1,749.11   | -111.07    | 532,785.717         | 767,214.666        | 32° 27' 45.222 N | 103° 36' 3.518 W |
| 11,941.00           | 89.54           | 357.59      | 10,140.12           | 1,845.03   | -114.68    | 532,881.632         | 767,211.065        | 32° 27' 46.171 N | 103° 36' 3.552 W |
| 12,036.00           | 90.95           | 356.80      | 10,139.72           | 1,939.91   | -119.32    | 532,976.514         | 767,206.416        | 32° 27' 47.110 N | 103° 36' 3.599 W |
| 12,132.00           | 89.49           | 358.64      | 10,139.35           | 2,035.83   | -123.14    | 533,072.430         | 767,202.597        | 32° 27' 48.060 N | 103° 36' 3.636 W |
| 12,228.00           | 87.56           | 1.01        | 10,141.82           | 2,131.78   | -123.44    | 533,168.386         | 767,202.303        | 32° 27' 49.009 N | 103° 36' 3.632 W |
| 12,324.00           | 86.77           | 0.49        | 10,146.57           | 2,227.66   | -122.18    | 533,264.259         | 767,203.559        | 32° 27' 49.958 N | 103° 36' 3.609 W |
| 12,420.00           | 86.77           | 359.78      | 10,151.98           | 2,323.50   | -121.96    | 533,360.106         | 767,203.785        | 32° 27' 50.906 N | 103° 36' 3.599 W |
| 12,515.00           | 87.56           | 359.26      | 10,156.68           | 2,418.38   | -122.75    | 533,454.985         | 767,202.989        | 32° 27' 51.845 N | 103° 36' 3.601 W |

## Survey Report - Geographic



|                  |                              |                                     |                                       |
|------------------|------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Advance Energy Partners      | <b>Local Co-ordinate Reference:</b> | Well Wool Head 20 State Com 301H      |
| <b>Project:</b>  | Lea Co. NM                   | <b>TVD Reference:</b>               | WELL @ 3773.51ft (Original Well Elev) |
| <b>Site:</b>     | Wool Head 20 State Com Pad D | <b>MD Reference:</b>                | WELL @ 3773.51ft (Original Well Elev) |
| <b>Well:</b>     | Wool Head 20 State Com 301H  | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | Wool Head 20 State Com 301H  | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | Wool Head 20 State Com 301H  | <b>Database:</b>                    | EDM 5000.1 Single User Db             |

| Survey              |                 |             |                     |            |            |                     |                    |                  |                  |
|---------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|------------------|------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude         | Longitude        |
| 12,611.00           | 87.82           | 359.26      | 10,160.55           | 2,514.30   | -123.99    | 533,550.899         | 767,201.751        | 32° 27' 52.794 N | 103° 36' 3.607 W |
| 12,707.00           | 88.48           | 359.17      | 10,163.64           | 2,610.24   | -125.30    | 533,646.839         | 767,200.436        | 32° 27' 53.744 N | 103° 36' 3.615 W |
| 12,802.00           | 90.20           | 359.08      | 10,164.74           | 2,705.22   | -126.76    | 533,741.818         | 767,198.985        | 32° 27' 54.684 N | 103° 36' 3.624 W |
| 12,897.00           | 91.47           | 359.08      | 10,163.35           | 2,800.19   | -128.28    | 533,836.793         | 767,197.460        | 32° 27' 55.623 N | 103° 36' 3.635 W |
| 12,992.00           | 91.43           | 359.87      | 10,160.95           | 2,895.16   | -129.15    | 533,931.758         | 767,196.590        | 32° 27' 56.563 N | 103° 36' 3.637 W |
| 13,087.00           | 89.98           | 0.14        | 10,159.78           | 2,990.15   | -129.14    | 534,026.748         | 767,196.598        | 32° 27' 57.503 N | 103° 36' 3.629 W |
| 13,182.00           | 91.91           | 0.14        | 10,158.22           | 3,085.13   | -128.91    | 534,121.730         | 767,196.831        | 32° 27' 58.443 N | 103° 36' 3.619 W |
| 13,278.00           | 90.02           | 0.31        | 10,156.60           | 3,181.11   | -128.53    | 534,217.711         | 767,197.208        | 32° 27' 59.393 N | 103° 36' 3.607 W |
| 13,373.00           | 88.44           | 359.78      | 10,157.88           | 3,276.10   | -128.46    | 534,312.699         | 767,197.282        | 32° 28' 0.332 N  | 103° 36' 3.598 W |
| 13,468.00           | 89.93           | 359.26      | 10,159.23           | 3,371.08   | -129.25    | 534,407.683         | 767,196.486        | 32° 28' 1.272 N  | 103° 36' 3.600 W |
| 13,563.00           | 88.18           | 359.87      | 10,160.79           | 3,466.06   | -129.98    | 534,502.663         | 767,195.765        | 32° 28' 2.212 N  | 103° 36' 3.601 W |
| 13,658.00           | 86.55           | 359.52      | 10,165.16           | 3,560.96   | -130.48    | 534,597.557         | 767,195.260        | 32° 28' 3.151 N  | 103° 36' 3.599 W |
| 13,753.00           | 87.43           | 358.55      | 10,170.15           | 3,655.81   | -132.08    | 534,692.411         | 767,193.662        | 32° 28' 4.090 N  | 103° 36' 3.610 W |
| 13,847.00           | 88.84           | 358.20      | 10,173.21           | 3,749.72   | -134.74    | 534,786.320         | 767,190.998        | 32° 28' 5.019 N  | 103° 36' 3.634 W |
| 13,942.00           | 89.41           | 357.24      | 10,174.66           | 3,844.63   | -138.52    | 534,881.232         | 767,187.219        | 32° 28' 5.959 N  | 103° 36' 3.670 W |
| 14,038.00           | 90.15           | 358.55      | 10,175.03           | 3,940.56   | -142.05    | 534,977.164         | 767,183.693        | 32° 28' 6.908 N  | 103° 36' 3.704 W |
| 14,134.00           | 91.60           | 358.38      | 10,173.56           | 4,036.52   | -144.62    | 535,073.116         | 767,181.122        | 32° 28' 7.858 N  | 103° 36' 3.726 W |
| 14,230.00           | 90.46           | 359.52      | 10,171.84           | 4,132.48   | -146.38    | 535,169.081         | 767,179.363        | 32° 28' 8.807 N  | 103° 36' 3.739 W |
| 14,325.00           | 88.62           | 0.40        | 10,172.60           | 4,227.47   | -146.44    | 535,264.072         | 767,179.297        | 32° 28' 9.747 N  | 103° 36' 3.732 W |
| 14,421.00           | 89.05           | 0.49        | 10,174.55           | 4,323.45   | -145.70    | 535,360.049         | 767,180.042        | 32° 28' 10.697 N | 103° 36' 3.716 W |
| 14,517.00           | 90.55           | 0.05        | 10,174.89           | 4,419.45   | -145.25    | 535,456.044         | 767,180.494        | 32° 28' 11.647 N | 103° 36' 3.703 W |
| 14,613.00           | 92.75           | 359.87      | 10,172.12           | 4,515.40   | -145.31    | 535,551.998         | 767,180.428        | 32° 28' 12.596 N | 103° 36' 3.696 W |
| 14,709.00           | 91.21           | 0.05        | 10,168.80           | 4,611.34   | -145.38    | 535,647.938         | 767,180.361        | 32° 28' 13.546 N | 103° 36' 3.689 W |
| 14,805.00           | 90.37           | 359.78      | 10,167.48           | 4,707.33   | -145.52    | 535,743.927         | 767,180.218        | 32° 28' 14.495 N | 103° 36' 3.683 W |
| 14,900.00           | 91.16           | 359.52      | 10,166.21           | 4,802.32   | -146.10    | 535,838.916         | 767,179.638        | 32° 28' 15.435 N | 103° 36' 3.682 W |
| 14,996.00           | 91.91           | 358.82      | 10,163.64           | 4,898.27   | -147.49    | 535,934.870         | 767,178.248        | 32° 28' 16.385 N | 103° 36' 3.691 W |
| 15,092.00           | 89.80           | 359.17      | 10,162.21           | 4,994.24   | -149.18    | 536,030.839         | 767,176.564        | 32° 28' 17.335 N | 103° 36' 3.703 W |
| 15,187.00           | 90.77           | 359.26      | 10,161.74           | 5,089.23   | -150.48    | 536,125.828         | 767,175.263        | 32° 28' 18.275 N | 103° 36' 3.710 W |
| 15,283.00           | 91.43           | 358.47      | 10,159.89           | 5,185.19   | -152.38    | 536,221.790         | 767,173.362        | 32° 28' 19.224 N | 103° 36' 3.725 W |
| 15,379.00           | 91.87           | 359.70      | 10,157.13           | 5,281.14   | -153.91    | 536,317.735         | 767,171.829        | 32° 28' 20.174 N | 103° 36' 3.735 W |
| 15,475.00           | 91.12           | 359.61      | 10,154.62           | 5,377.10   | -154.49    | 536,413.700         | 767,171.252        | 32° 28' 21.123 N | 103° 36' 3.734 W |
| 15,571.00           | 92.09           | 0.93        | 10,151.94           | 5,473.06   | -154.04    | 536,509.658         | 767,171.703        | 32° 28' 22.073 N | 103° 36' 3.721 W |
| 15,667.00           | 91.60           | 0.49        | 10,148.84           | 5,569.00   | -152.85    | 536,605.600         | 767,172.892        | 32° 28' 23.022 N | 103° 36' 3.700 W |
| 15,762.00           | 93.23           | 0.75        | 10,144.84           | 5,663.91   | -151.82    | 536,700.506         | 767,173.919        | 32° 28' 23.961 N | 103° 36' 3.680 W |
| 15,858.00           | 91.03           | 0.75        | 10,141.27           | 5,759.83   | -150.57    | 536,796.426         | 767,175.175        | 32° 28' 24.910 N | 103° 36' 3.658 W |
| 15,954.00           | 91.91           | 359.87      | 10,138.81           | 5,855.79   | -150.05    | 536,892.392         | 767,175.694        | 32° 28' 25.860 N | 103° 36' 3.644 W |
| 16,049.00           | 93.98           | 359.34      | 10,133.93           | 5,950.66   | -150.70    | 536,987.258         | 767,175.041        | 32° 28' 26.798 N | 103° 36' 3.644 W |
| 16,145.00           | 93.32           | 359.52      | 10,127.82           | 6,046.46   | -151.65    | 537,083.058         | 767,174.088        | 32° 28' 27.746 N | 103° 36' 3.647 W |
| 16,240.00           | 90.02           | 359.43      | 10,125.05           | 6,141.40   | -152.52    | 537,178.000         | 767,173.218        | 32° 28' 28.686 N | 103° 36' 3.650 W |
| 16,336.00           | 91.43           | 358.99      | 10,123.84           | 6,237.38   | -153.85    | 537,273.981         | 767,171.894        | 32° 28' 29.636 N | 103° 36' 3.658 W |
| 16,431.00           | 90.20           | 359.70      | 10,122.48           | 6,332.37   | -154.93    | 537,368.962         | 767,170.808        | 32° 28' 30.576 N | 103° 36' 3.663 W |
| 16,527.00           | 93.01           | 359.43      | 10,119.80           | 6,428.32   | -155.66    | 537,464.912         | 767,170.080        | 32° 28' 31.525 N | 103° 36' 3.664 W |
| 16,622.00           | 93.10           | 359.34      | 10,114.73           | 6,523.18   | -156.68    | 537,559.771         | 767,169.062        | 32° 28' 32.464 N | 103° 36' 3.668 W |
| 16,718.00           | 92.70           | 359.26      | 10,109.88           | 6,619.05   | -157.85    | 537,655.641         | 767,167.891        | 32° 28' 33.412 N | 103° 36' 3.674 W |
| 16,814.00           | 93.36           | 359.26      | 10,104.80           | 6,714.90   | -159.09    | 537,751.498         | 767,166.652        | 32° 28' 34.361 N | 103° 36' 3.681 W |
| 16,909.00           | 92.35           | 358.73      | 10,100.07           | 6,809.77   | -160.75    | 537,846.364         | 767,164.988        | 32° 28' 35.300 N | 103° 36' 3.692 W |
| 17,005.00           | 92.48           | 358.64      | 10,096.02           | 6,905.66   | -162.95    | 537,942.253         | 767,162.787        | 32° 28' 36.249 N | 103° 36' 3.710 W |
| 17,099.00           | 91.34           | 359.08      | 10,092.89           | 6,999.59   | -164.82    | 538,036.180         | 767,160.918        | 32° 28' 37.178 N | 103° 36' 3.725 W |
| 17,195.00           | 92.13           | 358.99      | 10,089.99           | 7,095.53   | -166.44    | 538,132.121         | 767,159.302        | 32° 28' 38.128 N | 103° 36' 3.736 W |
| 17,291.00           | 93.58           | 358.55      | 10,085.20           | 7,191.38   | -168.50    | 538,227.977         | 767,157.244        | 32° 28' 39.076 N | 103° 36' 3.752 W |
| 17,387.00           | 95.16           | 359.61      | 10,077.89           | 7,287.09   | -170.03    | 538,323.681         | 767,155.706        | 32° 28' 40.023 N | 103° 36' 3.762 W |
| 17,483.00           | 93.05           | 359.70      | 10,071.02           | 7,382.83   | -170.61    | 538,419.428         | 767,155.130        | 32° 28' 40.971 N | 103° 36' 3.762 W |
| 17,579.00           | 93.23           | 359.17      | 10,065.76           | 7,478.68   | -171.56    | 538,515.278         | 767,154.185        | 32° 28' 41.919 N | 103° 36' 3.765 W |
| 17,675.00           | 92.70           | 358.64      | 10,060.79           | 7,574.54   | -173.39    | 538,611.131         | 767,152.352        | 32° 28' 42.868 N | 103° 36' 3.779 W |
| 17,708.00           | 93.67           | 358.47      | 10,058.96           | 7,607.48   | -174.22    | 538,644.069         | 767,151.522        | 32° 28' 43.194 N | 103° 36' 3.786 W |

## Survey Report - Geographic



|                  |                              |                                     |                                       |
|------------------|------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Advance Energy Partners      | <b>Local Co-ordinate Reference:</b> | Well Wool Head 20 State Com 301H      |
| <b>Project:</b>  | Lea Co. NM                   | <b>TVD Reference:</b>               | WELL @ 3773.51ft (Original Well Elev) |
| <b>Site:</b>     | Wool Head 20 State Com Pad D | <b>MD Reference:</b>                | WELL @ 3773.51ft (Original Well Elev) |
| <b>Well:</b>     | Wool Head 20 State Com 301H  | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | Wool Head 20 State Com 301H  | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | Wool Head 20 State Com 301H  | <b>Database:</b>                    | EDM 5000.1 Single User Db             |

| Survey              |                 |             |                     |            |            |                     |                    |                  |                  |
|---------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|------------------|------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude         | Longitude        |
| 17,771.00           | 93.67           | 358.47      | 10,054.93           | 7,670.32   | -175.90    | 538,706.918         | 767,149.843        | 32° 28' 43.816 N | 103° 36' 3.800 W |
| Proj TD @ 17771'MD  |                 |             |                     |            |            |                     |                    |                  |                  |

| Design Annotations  |                     |                   |            |                    |  |
|---------------------|---------------------|-------------------|------------|--------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            |                    |  |
|                     |                     | +N/-S (ft)        | +E/-W (ft) | Comment            |  |
| 17,771.00           | 10,054.93           | 7,670.32          | -175.90    | Proj TD @ 17771'MD |  |

|                   |                    |             |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|

Submit 1 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

|                                                                                                                                                                                                               |  |                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------|
| <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.) |  | WELL API NO.<br>30-025-48602                                                                        |
| 1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>                                                                                |  | 5. Indicate Type of Lease<br>STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 2. Name of Operator<br>Advance Energy Partners Hat Mesa                                                                                                                                                       |  | 6. State Oil & Gas Lease No.                                                                        |
| 3. Address of Operator<br>11490 Westheimer Rd, Houston, TX 77077                                                                                                                                              |  | 7. Lease Name or Unit Agreement Name<br>Wool Head 20 State Com                                      |
| 4. Well Location<br>Unit Letter M : 225 feet from the S line and 767 feet from the W line<br>Section 20 Township 21S Range 33E NMPM County LEA                                                                |  | 8. Well Number<br>301H                                                                              |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.)<br>3741'                                                                                                                                                   |  | 9. OGRID Number<br>372417                                                                           |
| 10. Pool name or Wildcat<br>WC-025 G-08 S213304D;BONE SPRING                                                                                                                                                  |  |                                                                                                     |

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.

- 7/9/21: Pressure test casing to 9,800 psi for 30 minutes.
- 7/10/21 – 7/28/21: Perforate from 10,312' – 17,679' (2256). Frac with 18,566,810 lbs sand and 21,308,448 gal fluid.
- 7/30/21 – 7/31/21: Drill all plugs out and clean out to a PBTD of 17,693'.
- 8/19/21 – Ready to produce

Spud Date:

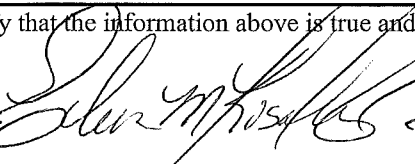
5/9/21

Rig Release Date:

6/19/21

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

SIGNATURE:



TITLE: Sr. Eng. Tech

DATE:

2/14/22

PRINT NAME: Eileen M Kosakowski

E-mail address: ekosakowski@advanceenergypartners.com

PHONE: (832) 672-4604

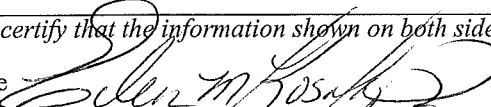
**For State Use Only**

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                                                                                            |                         |                  |          |                                                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                           |                                  | 1. WELL API NO.<br>30-025-48602                                                                                                                    |                           |                                                  |                      | 2. Type of Lease<br><input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/> FED/INDIAN |                         |                  |          |                                                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                           |                                  | 3. State Oil & Gas Lease No.                                                                                                                       |                           |                                                  |                      |                                                                                                                                |                         |                  |          |                                                                               |  |
| <b>WELL COMPLETION OR RECOMPLETION REPORT AND LOG</b>                                                                                                                                                                                                                                                                                                                                     |                                  |                                                                                                                                                    |                           |                                                  |                      |                                                                                                                                |                         |                  |          |                                                                               |  |
| 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) |                                  |                                                                                                                                                    |                           |                                                  |                      | 5. Lease Name or Unit Agreement Name<br><br>Wool Head 20 State Com                                                             |                         |                  |          |                                                                               |  |
| 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                                                                                                                                 |                                  |                                                                                                                                                    |                           |                                                  |                      | 6. Well Number:<br><br>301H                                                                                                    |                         |                  |          |                                                                               |  |
| 8. Name of Operator<br>Advance Energy Partners, LLC                                                                                                                                                                                                                                                                                                                                       |                                  |                                                                                                                                                    |                           |                                                  |                      | 9. OGRID<br>372417                                                                                                             |                         |                  |          |                                                                               |  |
| 10. Address of Operator<br><br>11490 Westheimer, Suite 950<br>Houston, Texas 77077                                                                                                                                                                                                                                                                                                        |                                  |                                                                                                                                                    |                           |                                                  |                      | 11. Pool name or Wildcat<br><br>WC -025 G-08 S213304D; BONE SPRING                                                             |                         |                  |          |                                                                               |  |
| 12. Location                                                                                                                                                                                                                                                                                                                                                                              | Unit Ltr                         | Section                                                                                                                                            | Township                  | Range                                            | Lot                  | Feet from the                                                                                                                  | N/S Line                | Feet from the    | E/W Line | County                                                                        |  |
| Surface:                                                                                                                                                                                                                                                                                                                                                                                  | M                                | 20                                                                                                                                                 | 21S                       | 33E                                              |                      | 225                                                                                                                            | SOUTH                   | 767              | WEST     | LEA                                                                           |  |
| BH:                                                                                                                                                                                                                                                                                                                                                                                       | L                                | 17                                                                                                                                                 | 21S                       | 33E                                              |                      | 2598                                                                                                                           | SOUTH                   | 656              | WEST     | LEA                                                                           |  |
| 13. Date Spudded<br>5/9/21                                                                                                                                                                                                                                                                                                                                                                | 14. Date T.D. Reached<br>6/17/21 | 15. Date Rig Released<br>6/19/21                                                                                                                   |                           | 16. Date Completed (Ready to Produce)<br>8/19/21 |                      | 17. Elevations (DF and RKB, RT, GR, etc.) 3741'                                                                                |                         |                  |          |                                                                               |  |
| 18. Total Measured Depth of Well<br>17,771                                                                                                                                                                                                                                                                                                                                                |                                  | 19. Plug Back Measured Depth<br>17,693                                                                                                             |                           | 20. Was Directional Survey Made?<br>Yes          |                      | 21. Type Electric and Other Logs Ru<br>Gamma Ray                                                                               |                         |                  |          |                                                                               |  |
| 22. Producing Interval(s), of this completion - Top, Bottom, Name<br>10,312-17,679'                                                                                                                                                                                                                                                                                                       |                                  |                                                                                                                                                    |                           |                                                  |                      |                                                                                                                                |                         |                  |          |                                                                               |  |
| <b>23. CASING RECORD (Report all strings set in well)</b>                                                                                                                                                                                                                                                                                                                                 |                                  |                                                                                                                                                    |                           |                                                  |                      |                                                                                                                                |                         |                  |          |                                                                               |  |
| CASING SIZE                                                                                                                                                                                                                                                                                                                                                                               |                                  | WEIGHT LB./FT.                                                                                                                                     |                           | DEPTH SET                                        |                      | HOLE SIZE                                                                                                                      |                         | CEMENTING RECORD |          | AMOUNT PULLED                                                                 |  |
| 13.375                                                                                                                                                                                                                                                                                                                                                                                    |                                  | 54.5                                                                                                                                               |                           | 1645                                             |                      | 17.5                                                                                                                           |                         | 955              |          |                                                                               |  |
| 9.625                                                                                                                                                                                                                                                                                                                                                                                     |                                  | 40                                                                                                                                                 |                           | 5298                                             |                      | 12.25                                                                                                                          |                         | 1195             |          |                                                                               |  |
| 5.5                                                                                                                                                                                                                                                                                                                                                                                       |                                  | 20                                                                                                                                                 |                           | 17,756                                           |                      | 8.5                                                                                                                            |                         | 3355             |          |                                                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                                                                                                                                    |                           |                                                  |                      |                                                                                                                                |                         |                  |          |                                                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                                                                                                                                    |                           |                                                  |                      |                                                                                                                                |                         |                  |          |                                                                               |  |
| <b>24. LINER RECORD</b>                                                                                                                                                                                                                                                                                                                                                                   |                                  |                                                                                                                                                    |                           |                                                  |                      |                                                                                                                                |                         |                  |          |                                                                               |  |
| SIZE                                                                                                                                                                                                                                                                                                                                                                                      | TOP                              | BOTTOM                                                                                                                                             | SACKS CEMENT              | SCREEN                                           |                      | 25. TUBING RECORD                                                                                                              |                         |                  |          |                                                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                                                                                                                                    |                           |                                                  |                      | SIZE                                                                                                                           |                         | DEPTH SET        |          | PACKER SET                                                                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                                                                                                                                    |                           |                                                  |                      | 2 7/8                                                                                                                          |                         | 8974             |          |                                                                               |  |
| 26. Perforation record (interval, size, and number)<br><br>10,312-17,679'                                                                                                                                                                                                                                                                                                                 |                                  |                                                                                                                                                    |                           |                                                  |                      | 27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.<br>DEPTH INTERVAL<br>10,312-17,679'                                            |                         |                  |          | AMOUNT AND KIND MATERIAL USED<br>18,566,810 lbs sand and 21,308,448 gal fluid |  |
|                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                                                                                                                                    |                           |                                                  |                      |                                                                                                                                |                         |                  |          |                                                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                                                                                                                                    |                           |                                                  |                      |                                                                                                                                |                         |                  |          |                                                                               |  |
| <b>28. PRODUCTION</b>                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                                                                                                                                    |                           |                                                  |                      |                                                                                                                                |                         |                  |          |                                                                               |  |
| Date First Production<br>8/19/21                                                                                                                                                                                                                                                                                                                                                          |                                  | Production Method (Flowing, gas lift, pumping - Size and type pump)<br>Flowing                                                                     |                           |                                                  |                      | Well Status (Prod. or Shut-in)<br>Prod                                                                                         |                         |                  |          |                                                                               |  |
| Date of Test<br>9/1/21                                                                                                                                                                                                                                                                                                                                                                    | Hours Tested<br>24               | Choke Size<br>128                                                                                                                                  | Prod'n For<br>Test Period | Oil - Bbl<br>444                                 | Gas - MCF<br>657     | Water - Bbl.<br>7396                                                                                                           | Gas - Oil Ratio<br>1480 |                  |          |                                                                               |  |
| Flow Tubing<br>Press.<br>990                                                                                                                                                                                                                                                                                                                                                              | Casing Pressure<br>243           | Calculated 24-<br>Hour Rate                                                                                                                        | Oil - Bbl.<br>444         | Gas - MCF<br>657                                 | Water - Bbl.<br>7396 | Oil Gravity - API - (Corr.)<br>43                                                                                              |                         |                  |          |                                                                               |  |
| 29. Disposition of Gas (Sold, used for fuel, vented, etc.)<br>Sold                                                                                                                                                                                                                                                                                                                        |                                  |                                                                                                                                                    |                           |                                                  |                      | 30. Test Witnessed By<br>Baron Chandler                                                                                        |                         |                  |          |                                                                               |  |
| 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:                                                                                                          |                         |                  |          |                                                                               |  |
| 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                                                                                                                                                                                                                                                                                              |                                  |                                                                                                                                                    |                           | Date 2/14/22                                     |                      |                                                                                                                                |                         |                  |          |                                                                               |  |
| Printed Name Eileen M Kosakowski                                                                                                                                                                                                                                                                                                                                                          |                                  |                                                                                                                                                    |                           | Title: Sr. Eng. Tech                             |                      | E-mail Address ekosakowski@advanceenergypartners.com                                                                           |                         |                  |          |                                                                               |  |



## INSTRUCTIONS

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.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

| 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         | T. Todilto              |                  |
| T. Abo                  | T. 1BS 9822 MD 9821 TVD | T. Entrada              |                  |
| T. Wolfcamp             | T. 2BS 9974 MD 9973 TVD | T. Wingate              |                  |
| T. Penn                 | T.                      | T. Chinle               |                  |
| T. Cisco (Bough C)      | T.                      | T. Permian              |                  |

## OIL OR GAS SANDS OR ZONES

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

## IMPORTANT WATER SANDS

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.....

## LITHOLOGY RECORD (Attach additional sheet if necessary)

| LITHOLOGY RECORD (When additional sheet is necessary) |    |                      |           | LITHOLOGY RECORD (When additional sheet is necessary) |    |                      |           |
|-------------------------------------------------------|----|----------------------|-----------|-------------------------------------------------------|----|----------------------|-----------|
| From                                                  | To | Thickness<br>In Feet | Lithology | From                                                  | To | Thickness<br>In Feet | Lithology |
|                                                       |    |                      |           |                                                       |    |                      |           |

**District I**

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

**District II**

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

**District III**

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

**District IV**

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

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

ACKNOWLEDGMENTS

Action 85290

**ACKNOWLEDGMENTS**

|                                                                                                          |                                                    |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Operator:<br>ADVANCE ENERGY PARTNERS HAT MESA, LLC<br>11490 Westheimer Rd., Ste 950<br>Houston, TX 77077 | OGRID:<br>372417                                   |
|                                                                                                          | Action Number:<br>85290                            |
|                                                                                                          | 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. |



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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 85290

CONDITIONS

|                                                                                                          |                                                    |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Operator:<br>ADVANCE ENERGY PARTNERS HAT MESA, LLC<br>11490 Westheimer Rd., Ste 950<br>Houston, TX 77077 | OGRID:<br>372417                                   |
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|                                                                                                          | Action Type:<br>[C-104] Completion Packet (C-104C) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| plmartinez | None      | 3/10/2022      |