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

District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 District IV

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

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

Form C-101 August 1, 2011

Permit 304963

| APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A Z | ONE |
|---|-----|
|---|-----|

| | 74 1 107 (1011) 017 1 17 11 17 17 17 17 17 17 17 17 17 17 | | | | | | | | | |
|---|---|------------------------|--------------|--|--|--|--|--|--|--|
| ſ | 1. Operator Name and Address | 2. OGRID Number | | | | | | | | |
| | ADVANCE ENERGY PARTNERS HA | 372417 | | | | | | | | |
| | 11490 Westheimer Rd., Ste 950 | 3. API Number | | | | | | | | |
| | Houston, TX 77077 | | 30-025-49640 | | | | | | | |
| Ī | 4. Property Code | 5. Property Name | 6. Well No. | | | | | | | |
| | 325948 | WOOL HEAD 20 STATE COM | 302H | | | | | | | |

7. Surface Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| N | 20 | 21S | 33E | N | 250 | S | 2112 | W | Lea |

8. Proposed Bottom Hole Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| K | 17 | 21S | 33E | K | 2540 | S | 2640 | W | Lea |

9. Pool Information

| WC-025 G-08 S213304D;BONE SPRING | 97895 |
|----------------------------------|-------|
| | |

Additional Well Information

| 11. Work Type | 12. Well Type | 13. Cable/Rotary | 14. Lease Type | 15. Ground Level Elevation |
|-----------------------|--------------------|--|----------------|-----------------------------------|
| New Well | OIL | | State | 3722 |
| 16. Multiple | 17. Proposed Depth | 18. Formation | 19. Contractor | 20. Spud Date |
| N | 21675 | Bone Spring | | 12/14/2021 |
| Depth to Ground water | | Distance from nearest fresh water well | | Distance to nearest surface water |
| | | | | |

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

21. Proposed Casing and Cement Program

| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surf | 17.5 | 13.375 | 54.5 | 1600 | 500 | 0 |
| Int1 | 12.25 | 9.625 | 40 | 5300 | 330 | 4000 |
| Int1 | 12.25 | 9.625 | 40 | 4000 | 950 | 0 |
| Prod | 8.5 | 5.5 | 20 | 19270 | 2300 | 0 |

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

| Type | Working Pressure | Test Pressure | Manufacturer |
|------------|------------------|---------------|--------------|
| Double Ram | 10000 | 10000 | |

| knowledge and be | elief. | true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC | | OIL CONSERVATION | ON DIVISION |
|------------------|-----------------------------------|--|--------------------|------------------|-----------------------------|
| Signature: | | | | | |
| Printed Name: | Electronically filed by Braden Ha | rris | Approved By: | Paul F Kautz | |
| Title: | Vice President | | Title: | Geologist | |
| Email Address: | bharris@advanceenergypartners | s.com | Approved Date: | 12/16/2021 | Expiration Date: 12/16/2023 |
| Date: | 12/8/2021 | Phone: 406-300-3310 | Conditions of Appr | oval Attached | |

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 Phone (575) 393-6161 Fax: (575) 393-0720 DISTRICT II 811 S. First St., Artesia, NM 88210 Phone (575) 748-1283 Fax: (575) 748-9720

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

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

DISTRICT III

DISTRICT IV

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised August 4, 2011

□ AMENDED REPORT

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

| | WEEL LOCKITOR HILD | nowhide bediening Thin | | |
|-------------------------|--------------------|---|--------------------|--|
| API Number 30-025-49640 | Pool Code 97895 | IAIC 025 C 00 C 21220AD DONE CODING | | |
| Property Code 325948 | <u>-</u> | erty Name Well Number 20 STATE COM 302H | | |
| ogrid No. 372417 | • | rator Name PARTNERS HAT MESA | Elevation 3722' | |

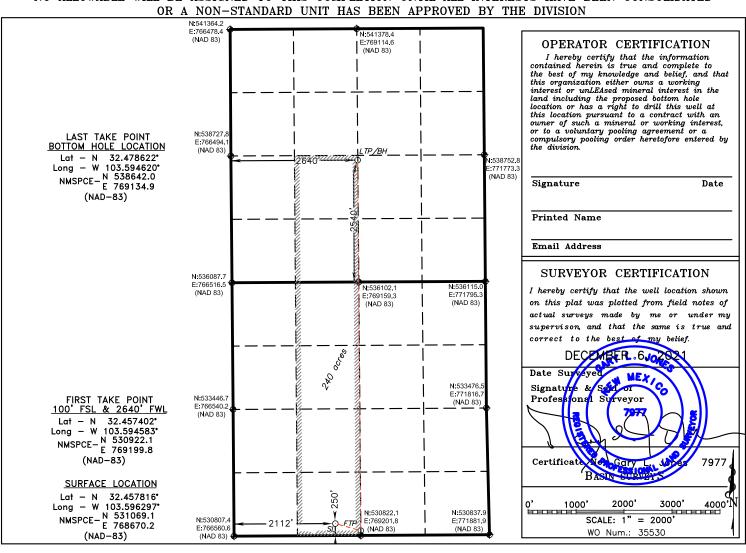
Surface Location

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | SOUTH/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| N | 20 | 21 S | 33 E | | 250 | SOUTH | 2112 | WEST | LEA |

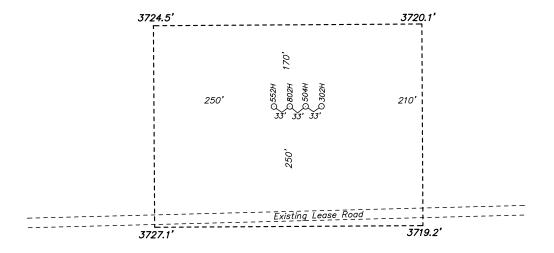
Bottom Hole Location If Different From Surface

| Γ | UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | SOUTH/South line | Feet from the | East/West line | County |
|---|-----------------|---------|------------|----------------|---------|---------------|------------------|---------------|----------------|--------|
| | K | 17 | 21 S | 33 E | | 2540 | SOUTH | 2640 | WEST | LEA |
| Г | Dedicated Acres | Joint o | r Infill C | onsolidation (| Code Or | der No. | | | | |
| L | 240 | | | | | | | | | |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



SECTION 20, TOWNSHIP 21 SOUTH, RANGE 33 EAST. N.M.P.M., LEA COUNTY, NEW MEXICO.



ADVANCE ENERGY PARTNERS HAT MESA WOOL HEAD 20 STATE COM 302H ELEV. - 3722'

Lat — N 32.457816* Long — W 103.596297* NMSPCE— N 531069.1 E 768670.2 (NAD—83)



P.O. Box 1786 (575) 393-1120 N. West County Rd. (575) 392-Hobbs, New Mexico 88241 basinsurvey

(575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com

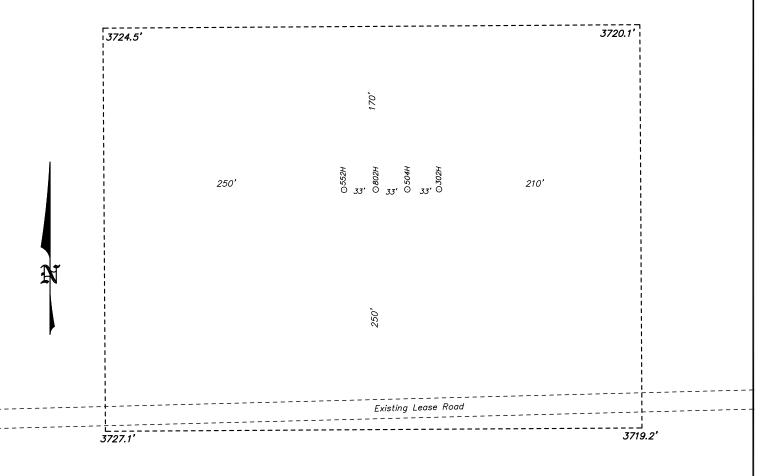
ADVANCE ENERGY PARTNERS HAT MESA

REF: WOOL HEAD 20 STATE COM 302H / WELL PAD TOPO

THE WOOL HEAD 20 STATE COM 302H LOCATED 250' FROM
THE SOUTH LINE AND 2112' FROM THE WEST LINE OF
SECTION 20, TOWNSHIP 21 SOUTH, RANGE 33 EAST.

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

SECTION 20, TOWNSHIP 21 SOUTH, RANGE 33 EAST. N.M.P.M., LEA COUNTY, NEW MEXICO.





P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241

(575) 393-7316 - Office (575) 392-2206 - Fax I basinsurveys.com

ADVANCE ENERGY PARTNERS HAT MESA

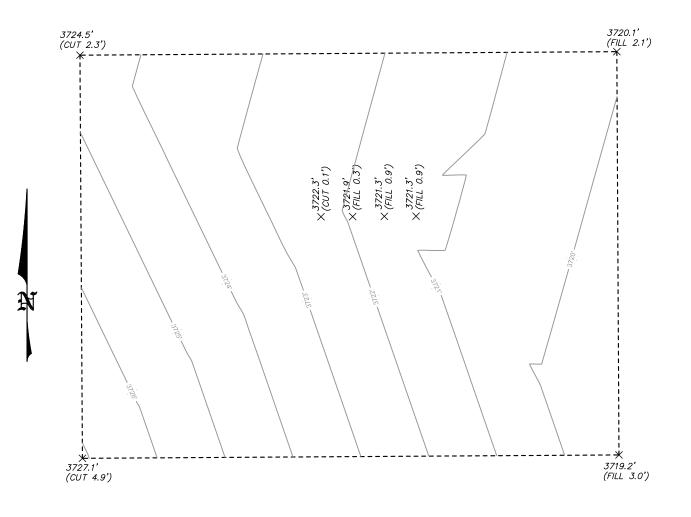
REF: WOOL HEAD 20 STATE COM 302H / WELL PAD TOPO

THE WOOL HEAD 20 STATE COM 302H LOCATED 250' FROM
THE SOUTH LINE AND 2112' FROM THE WEST LINE OF
SECTION 20, TOWNSHIP 21 SOUTH, RANGE 33 EAST.

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

W.O. Number: 35530 | Drawn By: K. GOAD | Date: 12-07-2021 | Survey Date: 12-06-2021 | Sheet 1 of 1 Sheets

SECTION 20, TOWNSHIP 21 SOUTH, RANGE 33 EAST. N.M.P.M., LEA COUNTY, NEW MEXICO.





P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241

(575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com 100 0 100 200 FEET

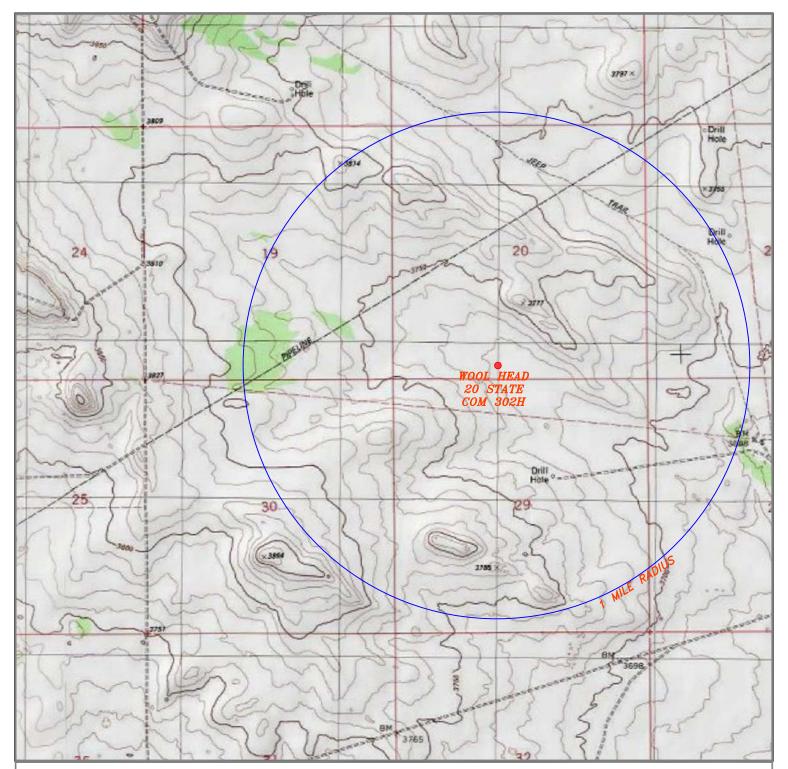
SCALE: 1" = 100'

ADVANCE ENERGY PARTNERS HAT MESA

REF: WOOL HEAD 20 STATE COM WELL PAD / CUT & FILL

THE WOOL HEAD 20 STATE COM WELL PAD LOCATED IN SECTION 20, TOWNSHIP 21 SOUTH, RANGE 33 EAST.

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



WOOL HEAD 20 STATE COM 302H

Located 250' FSL and 2112' FWL Section 20, Township 21 South, Range 33 East, N.M.P.M., Lea County, New Mexico.

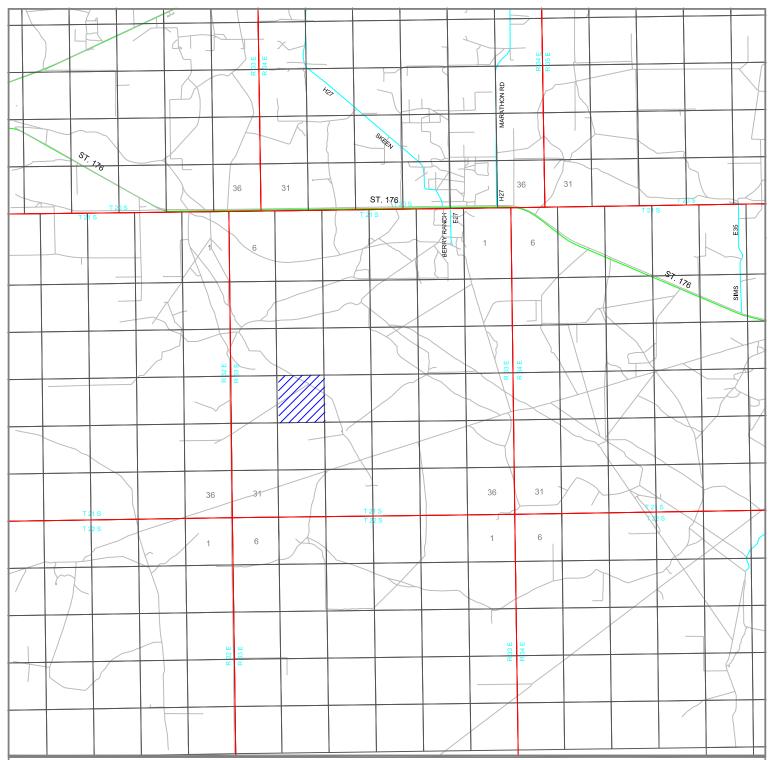


in the oilfield

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

| 0' 1000' 2000' 3000' 4000' SCALE: 1" = 2000' | | |
|--|----------|--|
| W.O. Number: KJG 35530 | | |
| Survey Date: 12-06-2021 | 4 | |
| YELLOW TINT — USA LAND BLUE TINT — STATE LAND NATURAL COLOR — FEE LAND | | |

ADVANCE ENERGY PARTNERS HAT MESA



WOOL HEAD 20 STATE COM 302H

Located 250' FSL and 2112' FWL Section 20, Township 21 South, Range 33 East, N.M.P.M., Lea County, New Mexico.



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

| 0 1 MI 2 MI 3 MI 4 MI SCALE: 1" = 2 MILES | | |
|--|----------|--|
| W.O. Number: KJG 35530 | | |
| Survey Date: 12-06-2021 | 4 | |
| YELLOW TINT — USA LAND BLUE TINT — STATE LAND NATURAL COLOR — FEE LAND | | |

ADVANCE ENERGY PARTNERS HAT MESA



WOOL HEAD 20 STATE COM 302H

Located 250' FSL and 2112' FWL Section 20, Township 21 South, Range 33 East, N.M.P.M., Lea County, New Mexico.



in the oilfield

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

| _ | | |
|---|--|-----|
| | 0' 1000' 2000' 3000' 4000' SCALE: 1" = 2000' | |
| | W.O. Number: KJG 35530 | |
| | W.O. Number: KJG 35550 | |
| 1 | Survey Date: 12-06-2021 | N S |
| | YELLOW TINT - USA LAND | |
| ᅦ | BLUE TINT — STATE LAND NATURAL COLOR — FEE LAND | 1 |

ADVANCE ENERGY PARTNERS HAT MESA

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

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

District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form APD Comments

Permit 304963

PERMIT COMMENTS

| Operator Name and Address: | API Number: |
|--|------------------------------|
| ADVANCE ENERGY PARTNERS HAT MESA, LLC [372417] | 30-025-49640 |
| 11490 Westheimer Rd., Ste 950 | Well: |
| Houston, TX 77077 | WOOL HEAD 20 STATE COM #302H |

| Created By | Comment | Comment Date |
|------------|-----------------------|--------------|
| pkautz | HOLD FOR NEW C-102 | 12/13/2021 |
| | LICED MOND INCOMPLETE | 40/40/0004 |

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

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

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

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

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

Form APD Conditions

Permit 304963

PERMIT CONDITIONS OF APPROVAL

| Operator Name and Address: | API Number: |
|--|------------------------------|
| ADVANCE ENERGY PARTNERS HAT MESA, LLC [372417] | 30-025-49640 |
| 11490 Westheimer Rd., Ste 950 | Well: |
| Houston, TX 77077 | WOOL HEAD 20 STATE COM #302H |

| OCD Reviewer | Condition |
|-----------------|--|
| pkautz | Notify OCD 24 hours prior to casing & cement |
| pkautz | Will require a File As Drilled C-102 and a Directional Survey with the C-104 |
| pkautz | Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string |
| | Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system |
| pkautz | The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud |
| pkautz | Potash Area - Three String Casing Program - In accordance with R-111-P all strings shall be cemented to surface. |



11490 Westheimer Road, Suite 950, Houston, Texas 77077 • Phone 832-672-4700 • Fax 832-672-4609

Date: February 17, 2020

Intrepid Potash-New Mexico, LLC 1996 Potash Mines Road. Carlsbad, New Mexico 88220

Attention: Mr. Robert Baldridge

Re: Proposed Well APDs – Wool Head Wells State Lands in Section 20, T21S-R33E and S/2 Section 17, T21S-R33E Lea County, New Mexico

Dear Mr. Baldridge,

This letter is to request waivers from Intrepid Potash-New Mexico, LLC (Intrepid) for the wells Advance Energy Partners Hat Mesa, LLC (Advance) plans to drill, having surface locations in the S/2SW/4 of Sec 20 and bottom-hole locations in the N/2SW/4 of Section 17 in T21S-R33E. The planned wells include, but are not necessarily limited to, the wells listed in the attached Exhibit "A". In the event Advance desires to drill additional wells in the above stated lands, Intrepid agrees to grant waivers for such additional wells.

Please provide your waiver by signing below and returning one signed counterpart of this letter to my attention at Advance. Please feel free to contact me about this request if you have any questions.

Sincerely,

Advance Energy Partners Hat Mesa, LLC

Paul Burdick Land Advisor (832) 672-4623

Email: PBurdick@AdvanceEnergyPartners.com

Waiver Granted this ____ day of February, 2020

Intrepid Potast New Mexico, LLC

By:

Name: LOBERT DADZIDGE

Intrepid Potash February 17, 2020 Page 2

EXHIBIT A

WELLS

| Well Name | Surface Location | Bottom-hole Location |
|------------------------------|------------------------|-------------------------|
| Wool Head 20 State Com 501H | SW4SW/4 Sec 20-21S-33E | NW/4SW/4 Sec 17-21S-33E |
| Wool Head 20 State Com 502H | SW4SW/4 Sec 20-21S-33E | NW/4SW/4 Sec 17-21S-33E |
| Wool Head 20 State Com 503H | SE4SW/4 Sec 20-21S-33E | NE/4SW/4 Sec 17-21S-33E |
| Wool Head 20 State Com 504II | SE4SW/4 Sec 20-21S-33E | NE/4SW/4 Sec 17-21S-33E |
| Wool Head 20 State Com 551H | SW4SW/4 Sec 20-21S-33F | NW/4SW/4 Sec 17-21S-33E |
| Wool Head 20 State Com 552H | SE4SW/4 Sec 20-21S-33E | NE/4SW/4 Sec 17-21S-33E |
| Wool Head 20 State Com 601H | SW4SW/4 Sec 20-21S-33E | NW/4SW/4 Sec 17-21S-33E |
| Wool Head 20 State Com 602H | SW4SW/4 Sec 20-21S-33E | NW/4SW/4 Sec 17-21S-33E |
| Wool Head 20 State Com 603H | SE4SW/4 Sec 20-21S-33E | NF/4SW/4 Sec 17-21S-33E |
| Wool Head 20 State Com 604H | SE4SW/4 Sec 20-21S-33E | NE/4SW/4 Sec 17-21S-33E |
| Wool Head 20 State Com 801H | SW4SW/4 Sec 20-21S-33E | NW/4SW/4 Sec 17-21S-33E |
| Wool Head 20 State Com 802H | SE4SW/4 Sec 20-21S-33E | NE/4SW/4 Sec 17-21S-33E |

State of New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit Electronically Via E-permitting

| | ľ | NATURAL G | SAS MANA | GEMENT P | LAN | | | |
|--|--|--|----------------------------------|----------------------------|-----------|---------------------|--------|---------------------------------------|
| This Natural Gas Manage | ement Plan 1 | nust be submitted v | with each Applica | tion for Permit to I | Orill (A | PD) for a | new o | r recompleted well. |
| | | | n 1 – Plan D Effective May 25 | | | | | |
| I. Operator: Advance I | Energy Part | ners Hat Mesa | OGRID: <u>37</u> | 2417 | | Date: | 12 /8 | <u>3/21</u> |
| II. Type: ☑ Original ☐ | Amendment | due to □ 19.15.27. | .9.D(6)(a) NMA(| C □ 19.15.27.9.D(| 6)(b) N | AC □ | Other. | |
| If Other, please describe: | | | | | | | | |
| III. Well(s): Provide the be recompleted from a si | | | | | vells pr | oposed to | be dri | illed or proposed to |
| Well Name | API | ULSTR | Footages | Anticipated Oil BBL/D | | icipated MCF/D | P | Anticipated roduced Water BBL/D |
| Wool Head 20 Fed Com 302H | | N-20-21S-33E | 250 FSL &2112 FWL | 1000 | 1590 | | 3100 | |
| IV. Central Delivery Po V. Anticipated Schedule proposed to be recomplete | e: Provide th | e following inform | ation for each nev | | vell or s | | | 7.9(D)(1) NMAC] sed to be drilled or |
| Well Name | API | Spud Date | TD Reached Date | Completion Commencement | | Initial F Back D | | First Production Date |
| Wool Head 20 Fed Com # 302H | | 12/14/2021 | 12/26/2021 | 01/15/2022 | | 03/01/2022 | | 04/01/2022 |
| VI. Separation Equipm VII. Operational Practic Subsection A through F of the VIII. Best Management during active and planned. | ces: X Atta of 19.15.27.8 Practices: | ch a complete desci 3 NMAC. X 1 Attach a comple | ription of the acti | ons Operator will t | take to o | comply wi | th the | requirements of |

Section 2 – Enhanced Plan

| | | | E APRIL 1, 2022 | | | |
|--|--|---|--|---|--|--|
| Beginning April 1, 2 reporting area must | | | ith its statewide natural gas o | capture requirement for the applicable | | |
| ☐ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area. | | | | | | |
| IX. Anticipated Na | tural Gas Producti | ion: | | | | |
| W | ell | API | Anticipated Average Natural Gas Rate MCF/D | Anticipated Volume of Natural Gas for the First Year MCF | | |
| | | | | | | |
| X. Natural Gas Ga | thering System (NO | GGS): | | | | |
| Operator | System | ULSTR of Tie-in | Anticipated Gathering Start Date | Available Maximum Daily Capacity of System Segment Tie-in | | |
| | · | | | | | |
| production operation the segment or portion the segment or portion with the segment or portion with the segment or portion with the segment of the segment o | ns to the existing or on of the natural gas gas. The natural gas gas from the well prior the comparator does gasystem(s) describe as plan to manage proty: Department of the paragraph (2) of the control | planned interconnect of the significant part of the significant part of the date of first product of the date of first product of the date will continue to solve the date of the significant part of | he natural gas gathering systematic the well(s) will be considered will not have capacity to go toon. It its existing well(s) connect meet anticipated increases in the increased line pressure. Usuant to Section 71-2-8 NM 27.9 NMAC, and attaches a section of the content of t | nticipated pipeline route(s) connecting the em(s), and the maximum daily capacity of nected. gather 100% of the anticipated natural gas ted to the same segment, or portion, of the line pressure caused by the new well(s). SA 1978 for the information provided in full description of the specific information | | |
| | | | | | | |
| | | | | | | |

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

| Signature: Judou Musulum |
|---|
| Printed Name:Debbie Moughon |
| Title: Eng. Tech |
| E-mail Address:dmoughon@advanceenergypartners.com |
| Date: 12/8/2021 |
| Phone: 713-447-0744 |
| OIL CONSERVATION DIVISION |
| (Only applicable when submitted as a standalone form) |
| Approved By: |
| Title: |
| Approval Date: |
| Conditions of Approval: |
| |
| |
| |
| |
| |

Natural Gas Management Plan - Attachment

- VI. Separation equipment will be sized by construction engineering staff based on stated manufacturer daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs, and VRUs will be sized utilizing ProMax modelling software to ensure adequate capacity for anticipated production volumes and conditions.
- VII. Advance Energy Partners Hat Mesa, LLC (AEP) will take the following actions to comply with the regulations listed in 19.15.27.8:
 - A. AEP will maximize the recovery of natural gas by minimizing the waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. AEP will ensure that well(s) will be connected to a natural gas gathering system with sufficient capacity to transport natural gas. If there is no adequate takeaway for the gas, well(s) will be shut in until the natural gas gathering system is available.
 - B. All drilling operations will be equipped with a rig flare located at least 100' from the nearest surface hole. Rig flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations. In the case of emergency venting or flaring the volumes will be estimated and repolted appropriately.
 - C. During completion operations any natural gas brought to smface will be flared. Immediately following the finish of completion operations, all well flowback will be directed to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. It is not anticipated that gas will not meet pipeline standards. However, if natural gas does not meet gathering pipeline quality specifications, AEP will flare the natural gas for 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner. AEP will ensure that the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas sample will be analyzed twice per week and the gas will be routed into a gathering system as soon as pipeline specifications are met.
 - D. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(I) through (4). If there is no adequate takeaway for the separator gas, well(s) will be shut in until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting and/or flaring volumes will be estimated and repolted appropriately.
 - E. AEP will comply with the performance standards requirements and provisions listed in 19.15.27.8 E.(l)through (8). All equipment will be designed and sized to handle maximum anticipated pressures and throughputs to minimize the waste. Production storage tanks constructed after May 25, 2021, will be equipped with automatic gauging system. Flares constructed after May 25, 2021, will be equipped with automatic igniter or continuous pilot. Flares will be located at least 100' from the well and storage tanks unless otherwise approved by the division. AEP will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.
 - F. The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completions operations will be estimated. The volume of natural gas that is vented, flared, or beneficially used during production operations, will be measured, or estimated. AEP will install equipment to measure

the volume of natural gas flared from existing process piping, or a flowline piped from equipment such as high-pressure separators, heater treaters, or vapor recovery units associated with a well or facility associated with a well authorized by an APD issued after May 25, 2021, that has an average daily production greater than 60 Mcf/day. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, AEP will estimate the volume of vented or flared natural gas. Measuring equipment will conform to industry standards and will not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

VIII. For maintenance activities involving production equipment and compression, venting will be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production and compression equipment the associated producing wells will be shut in to eliminate venting. For maintenance of VRUs all gas normally routed to the VRU will be routed to flare to eliminate venting.



Advance Energy Partners

Hat Mesa Wool Head 20 State Com Pad C Wool Head 20 State Com 302H

Wool Head 20 State Com 302H Wool Head 20 State Com 302H

Anticollision Summary Report

08 December, 2021



Anticollision Summary Report

TVD Reference:

MD Reference:

Company: Advance Energy Partners

Project: Hat Mesa

Reference Site: Wool Head 20 State Com Pad C

Site Error: 0.0 usft

Reference Well: Wool Head 20 State Com 302H

Well Error: 0.0 usft

Reference Wellbore Wool Head 20 State Com 302H

Reference Design: Wool Head 20 State Com 302H

Local Co-ordinate Reference:

Well Wool Head 20 State Com 302H WELL @ 3754.5usft (Original Well Elev)

WELL @ 3754.5usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.79 sigma

Database: EDM 5000.16 Single User Db

Offset TVD Reference: Offset Datum

Reference Wool Head 20 State Com 302H

Filter type: NO GLOBAL FILTER: Using user defined selection & filtering criteria

Interpolation Method: Stations Error Model: ISCWSA

Depth Range: Unlimited Scan Method: Closest Approach 3D

Results Limited by: Maximum centre distance of 1,000.0usft Error Surface: Pedal Curve

Warning Levels Evaluated at: 2.79 Sigma Casing Method: Not applied

Survey Tool Program Date 12/8/2021

From To

(usft)

(usft) Survey (Wellbore) Tool Name Description

0.0 17,685.8 Wool Head 20 State Com 302H (Wool Hea MWD+HRGM OWSG MWD + HRGM

| ite Name Offset Well - Wellbore - Design | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Dista Between Centres (usft) | nce Between Ellipses (usft) | Separation Factor | Warning |
|--|--|---------------------------------------|---------------------------------------|--------------------------------------|----------------------|--|
| Vool Head 20 State Com Pad C | | | | | | |
| Wool Head 20 State Com 504H - Wool Head 20 State Co Wool Head 20 State Com 552H - Wool Head 20 State Co Wool Head 20 State Com 802H - Wool Head 20 State Co | 5,000.0 5,000.0 5,000.0 | 5,000.0 5,000.0 5,000.0 | 33.0 99.0 66.0 | 6.9 72.9 39.9 | 3.790 C | evel 3, CC, ES, SF CC, ES, SF CC, ES, SF |
| Vool Head 20 State Com Pad D | | | | | | |
| Crockett State #02 - Crockett State #02 - Crockett State Wool Head 20 State Com #03 - Wool Head 20 State Com Wool Head 20 State Com 301H - Wool Head 20 State Co Wool Head 20 State Com 501H - Wool Head 20 State Co | | | | | (| Out of range Out of range Out of range Out of range |
| Wool Head 20 State Com 503H - Wool Head 20 State Co Wool Head 20 State Com 503H - Wool Head 20 State Co | 10,388.4 16,900.0 | 10,678.7 17,184.5 | 971.2 998.8 | 881.4 707.6 | 10.811 C 3.431 E | - |



Anticollision Summary Report

TVD Reference:

MD Reference:

Company: Advance Energy Partners

Project: Hat Mesa

Reference Site: Wool Head 20 State Com Pad C

Site Error: 0.0 usft

Reference Well: Wool Head 20 State Com 302H

Well Error: 0.0 usft

Reference Wellbore Wool Head 20 State Com 302H

Reference Design: Wool Head 20 State Com 302H

Local Co-ordinate Reference:

Well Wool Head 20 State Com 302H WELL @ 3754.5usft (Original Well Elev)

WELL @ 3754.5usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.79 sigma

Database: EDM 5000.16 Single User Db

Offset TVD Reference: Offset Datum

Reference Depths are relative to WELL @ 3754.5usft (Original Well Ele

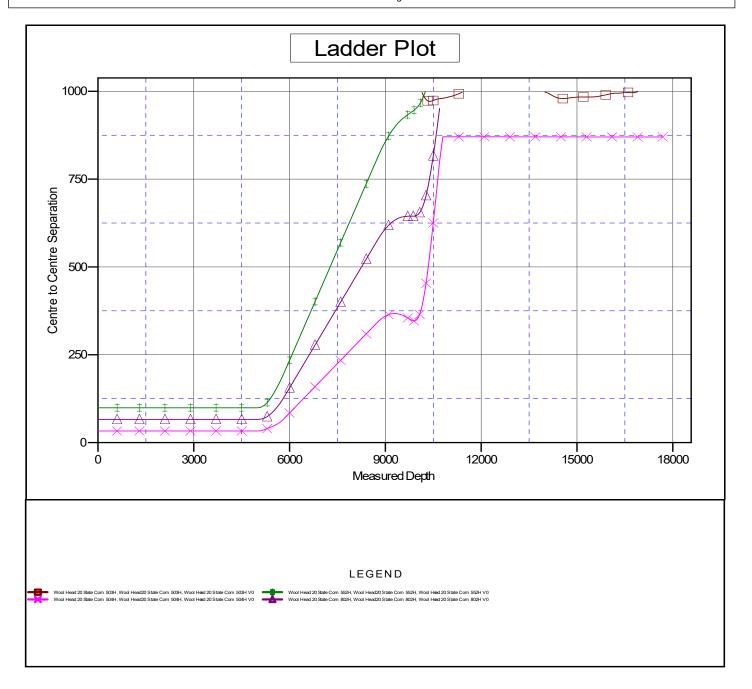
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Wool Head 20 State Com 302H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.40°





Anticollision Summary Report

TVD Reference:

MD Reference:

Company: Advance Energy Partners

Project: Hat Mesa

Reference Site: Wool Head 20 State Com Pad C

Site Error: 0.0 usft

Reference Well: Wool Head 20 State Com 302H

Well Error: 0.0 usft

Reference Wellbore Wool Head 20 State Com 302H

Reference Design: Wool Head 20 State Com 302H

Local Co-ordinate Reference:

Well Wool Head 20 State Com 302H WELL @ 3754.5usft (Original Well Elev)

WELL @ 3754.5usft (Original Well Elev)
WELL @ 3754.5usft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.79 sigma

Database: EDM 5000.16 Single User Db

Offset TVD Reference: Offset Datum

Reference Depths are relative to WELL @ 3754.5usft (Original Well Ele

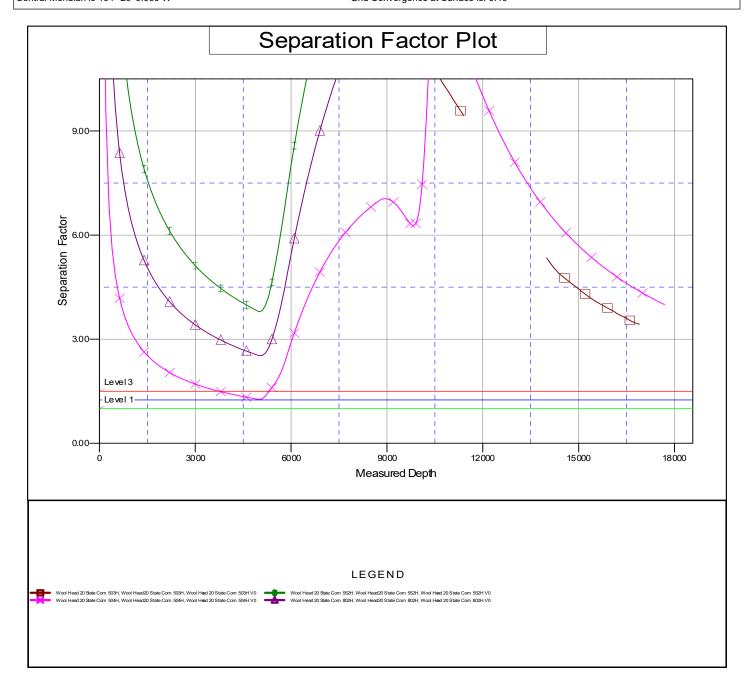
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Wool Head 20 State Com 302H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.40°





Advance Energy Partners

Hat Mesa Wool Head 20 State Com Pad C Wool Head 20 State Com 302H

Wool Head 20 State Com 302H

Plan: Wool Head 20 State Com 302H

Standard Planning Report

08 December, 2021



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

Project: Hat Mesa

Wool Head 20 State Com Pad C Site: Well: Wool Head 20 State Com 302H Wellbore: Wool Head 20 State Com 302H Wool Head 20 State Com 302H Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Wool Head 20 State Com 302H WELL @ 3754.5usft (Original Well Elev)

WELL @ 3754.5usft (Original Well Elev)

Minimum Curvature

Project Hat Mesa, Lea County, NM

Map System: Geo Datum:

Map Zone:

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

Wool Head 20 State Com Pad C Site

Site Position: From:

Lat/Long

Northing: Easting:

531,069.15 usft 768,670.11 usft

Latitude: Longitude:

32° 27' 28.138 N 103° 35' 46.669 W

0.0 usft Slot Radius: 13-3/16 " **Position Uncertainty:**

Well Wool Head 20 State Com 302H

Well Position +N/-S +E/-W

0.0 usft0.0 usft Northing: Easting:

531,069.15 usft 768,670.11 usft Wellhead Elevation: usft Latitude: Longitude: **Ground Level:**

32° 27' 28.138 N 103° 35' 46.669 W

3,722.0 usft

0.0 usft **Position Uncertainty** 0.40 9 **Grid Convergence:**

Wool Head 20 State Com 302H Wellbore

Magnetics **Model Name** Declination Dip Angle Field Strength Sample Date (°) (°) (nT) IGRF2015 12/8/2021 6.49 60.21 47,610.30716316

Wool Head 20 State Com 302H Design

Audit Notes:

Version:

Vertical Section:

Phase:

PROTOTYPE

Tie On Depth: +E/-W

0.0

Depth From (TVD) +N/-S Direction (usft) (usft) (usft) (°) 0.0 0.0 0.0 3.51

Plan Survey Tool Program

12/8/2021 Date

Depth From Depth To (usft)

(usft)

Survey (Wellbore)

Tool Name MWD+HRGM

Remarks

0.0

17,685.8 Wool Head 20 State Com 302H (

OWSG MWD + HRGM

Plan Sections Dogleg Measured Vertical Build Turn Depth Inclination Azimuth Depth +N/-S +E/-W Rate Rate Rate TFO (usft) (°) (°) (usft) (usft) (usft) (°/100usft) (°/100usft) (°/100usft) (°) Target 0.0 0.00 0.00 0.0 0.0 0.0 0.00 0.00 0.00 0.00 5,000.0 0.00 0.00 5,000.0 0.0 0.0 0.00 0.00 0.00 0.00 59.8 5,843.6 8.44 105.30 5,840.6 -16.4 1.00 1.00 0.00 105.30 8,743.9 105.30 8,709.4 -128.6 470.2 0.00 0.00 0.00 0.00 8.44 9,587.5 -145.0 530.0 1.00 0.00 0.00 9,550.0 -1.00 0.00 180.00 9,695.0 9,657.5 -145.0 530.0 0.00 0.00 0.00 0.00 0.00 0.00 10,445.0 90.00 359.52 10,135.0 332.4 526.0 12.00 12.00 0.00 359.52 17,685.8 10,135.0 7,573.0 464.9 0.00 0.00 0.00 Wool Head 20 State (90.00 359.52 0.00



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

Project: Hat Mesa

Site:Wool Head 20 State Com Pad CWell:Wool Head 20 State Com 302HWellbore:Wool Head 20 State Com 302HDesign:Wool Head 20 State Com 302H

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Wool Head 20 State Com 302H WELL @ 3754.5usft (Original Well Elev) WELL @ 3754.5usft (Original Well Elev)

| ed Survey | | | | | | | | | |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 800.0 | 0.00 | 0.00 | 800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 900.0 | 0.00 | 0.00 | 900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,100.0 | 0.00 | 0.00 | 1,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,200.0 | 0.00 | 0.00 | 1,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,300.0 | 0.00 | 0.00 | 1,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 0.00 | 0.00 | 1,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,500.0 | 0.00 | 0.00 | 1,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 1,600.0 | 0.00 | 0.00 | 1,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 0.00 | 0.00 | 1,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 0.00 | 0.00 | 1,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 0.00 | 0.00 | 1,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 0.00 | 0.00 | 2,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 0.00 | 0.00 | 2,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 2,200.0 | 0.00 | 0.00 | 2,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 0.00 | 0.00 | 2,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 0.00 | 0.00 | 2,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 0.00 | 0.00 | 2,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 0.00 | 0.00 | 2,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 0.00 | 0.00 | 2,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 0.00 | 0.00 | 2,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 0.00 | 0.00 | 2,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 0.00 | 0.00 | 2,900.0 | | 0.0 | | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 0.00 | 0.00 | 3,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 0.00 | 0.00 | 3,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 0.00 | 0.00 | 3,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 0.00 | 0.00 | 3,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 0.00 | 0.00 | 3,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 3,500.0 | 0.00 | 0.00 0.00 | 3,500.0 | 0.0 0.0 | 0.0 | 0.0 | 0.00 | 0.00 0.00 | 0.00 |
| 3,600.0 | 0.00 | | 3,600.0 | | 0.0 | 0.0 | 0.00 | | 0.00 |
| 3,700.0 | 0.00 | 0.00 | 3,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 0.00 | 0.00 | 3,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 0.00 | 0.00 | 3,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 0.00 | 0.00 | 4,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 0.00 | 0.00 | 4,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 0.00 | 0.00 | 4,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 0.00 | 0.00 | 4,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,300.0 4,400.0 | 0.00 | 0.00 | 4,300.0 4,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| , | | | * | | | | | | |
| 4,500.0 | 0.00 | 0.00 | 4,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 0.00 | 0.00 | 4,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 0.00 | 0.00 | 4,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 0.00 | 0.00 | 4,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 0.00 | 0.00 | 4,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 5,000.0 | 0.00 | 0.00 | 5,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| KOP - Start E | | | | | | | | | |
| 5,100.0 | 1.00 | 105.30 | 5,100.0 | -0.2 | 0.8 | -0.2 | 1.00 | 1.00 1.00 | 0.00 |



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

Project: Hat Mesa

Site:Wool Head 20 State Com Pad CWell:Wool Head 20 State Com 302HWellbore:Wool Head 20 State Com 302HDesign:Wool Head 20 State Com 302H

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Wool Head 20 State Com 302H WELL @ 3754.5usft (Original Well Elev) WELL @ 3754.5usft (Original Well Elev)

| 9 | | | | | | | | | |
|-----------------------------|----------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| nned Survey | | | | | | | | | |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 5,300. | | 105.30 | 5,299.9 | -2.1 | 7.6 | -1.6 | 1.00 | 1.00 | 0.00 |
| 5,400. | 0 4.00 | 105.30 | 5,399.7 | -3.7 | 13.5 | -2.9 | 1.00 | 1.00 | 0.00 |
| 5,500. | 0 5.00 | 105.30 | 5,499.4 | -5.8 | 21.0 | -4.5 | 1.00 | 1.00 | 0.00 |
| 5,600. | | 105.30 | 5,598.9 | -8.3 | 30.3 | -6.4 | 1.00 | 1.00 | 0.00 |
| 5,700. | | 105.30 | 5,698.3 | -11.3 | 41.2 | -8.7 | 1.00 | 1.00 | 0.00 |
| 5,800. | | 105.30 | 5,797.4 | -14.7 | 53.8 | -11.4 | 1.00 | 1.00 | 0.00 |
| 5,843. | | 105.30 | 5,840.6 | -16.4 | 59.8 | -12.7 | 1.00 | 1.00 | 0.00 |
| | 0.2 hold at 5843.6 N | ID | | | | | | | |
| 5,900. | | 105.30 | 5,896.3 | -18.5 | 67.8 | -14.4 | 0.00 | 0.00 | 0.00 |
| 6,000. | | 105.30 | 5,995.3 | -22.4 | 81.9 | -17.4 | 0.00 | 0.00 | 0.00 |
| 6,100. | | 105.30 | 6,094.2 | -26.3 | 96.1 | -20.3 | 0.00 | 0.00 | 0.00 |
| 6,200. | | 105.30 | 6,193.1 | -30.2 | 110.2 | -23.3 | 0.00 | 0.00 | 0.00 |
| 6,300. | 0 8.44 | 105.30 | 6,292.0 | -34.0 | 124.4 | -26.3 | 0.00 | 0.00 | 0.00 |
| 6,400. | 0 8.44 | 105.30 | 6,390.9 | -37.9 | 138.5 | -29.3 | 0.00 | 0.00 | 0.00 |
| 6,500. | | 105.30 | 6,489.9 | -41.8 | 152.7 | -32.3 | 0.00 | 0.00 | 0.00 |
| 6,600. | | 105.30 | 6,588.8 | -45.6 | 166.8 | -35.3 | 0.00 | 0.00 | 0.00 |
| 6,700. | | 105.30 | 6,687.7 | -49.5 | 181.0 | -38.3 | 0.00 | 0.00 | 0.00 |
| 6,800. | 0 8.44 | 105.30 | 6,786.6 | -53.4 | 195.1 | -41.3 | 0.00 | 0.00 | 0.00 |
| 6,900. | 0 8.44 | 105.30 | 6,885.5 | -57.3 | 209.3 | -44.3 | 0.00 | 0.00 | 0.00 |
| 7,000. | 0 8.44 | 105.30 | 6,984.4 | -61.1 | 223.4 | -47.3 | 0.00 | 0.00 | 0.00 |
| 7,100. | | 105.30 | 7,083.4 | -65.0 | 237.6 | -50.3 | 0.00 | 0.00 | 0.00 |
| 7,200. | | 105.30 | 7,182.3 | -68.9 | 251.7 | -53.3 | 0.00 | 0.00 | 0.00 |
| 7,300. | 0 8.44 | 105.30 | 7,281.2 | -72.7 | 265.9 | -56.3 | 0.00 | 0.00 | 0.00 |
| 7,400. | 0 8.44 | 105.30 | 7,380.1 | -76.6 | 280.0 | -59.3 | 0.00 | 0.00 | 0.00 |
| 7,500. | 0 8.44 | 105.30 | 7,479.0 | -80.5 | 294.2 | -62.3 | 0.00 | 0.00 | 0.00 |
| 7,600. | | 105.30 | 7,578.0 | -84.4 | 308.3 | -65.3 | 0.00 | 0.00 | 0.00 |
| 7,700. | | 105.30 | 7,676.9 | -88.2 | 322.5 | -68.3 | 0.00 | 0.00 | 0.00 |
| 7,800. | 0 8.44 | 105.30 | 7,775.8 | -92.1 | 336.6 | -71.3 | 0.00 | 0.00 | 0.00 |
| 7,900. | 0 8.44 | 105.30 | 7,874.7 | -96.0 | 350.8 | -74.3 | 0.00 | 0.00 | 0.00 |
| 8,000. | | 105.30 | 7,973.6 | -99.8 | 364.9 | -77.3 | 0.00 | 0.00 | 0.00 |
| 8,100. | | 105.30 | 8,072.5 | -103.7 | 379.1 | -80.3 | 0.00 | 0.00 | 0.00 |
| 8,200. | | 105.30 | 8,171.5 | -107.6 | 393.2 | -83.3 | 0.00 | 0.00 | 0.00 |
| 8,300. | 0 8.44 | 105.30 | 8,270.4 | -111.5 | 407.4 | -86.3 | 0.00 | 0.00 | 0.00 |
| 8,400. | 0 8.44 | 105.30 | 8,369.3 | -115.3 | 421.5 | -89.3 | 0.00 | 0.00 | 0.00 |
| 8,500. | 0 8.44 | 105.30 | 8,468.2 | -119.2 | 435.7 | -92.3 | 0.00 | 0.00 | 0.00 |
| 8,600. | | 105.30 | 8,567.1 | -123.1 | 449.8 | -95.3 | 0.00 | 0.00 | 0.00 |
| 8,700. | | 105.30 | 8,666.0 | -126.9 | 464.0 | -98.3 | 0.00 | 0.00 | 0.00 |
| 8,743. | | 105.30 | 8,709.4 | -128.6 | 470.2 | -99.6 | 0.00 | 0.00 | 0.00 |
| Start Drop | p -1.00 | | | | | | | | |
| 8,800. | | 105.30 | 8,765.0 | -130.7 | 477.9 | -101.2 | 1.00 | -1.00 | 0.00 |
| 8,900. | | 105.30 | 8,864.2 | -134.1 | 490.3 | -103.8 | 1.00 | -1.00 | 0.00 |
| 9,000. | | 105.30 | 8,963.6 | -137.1 | 501.0 | -106.1 | 1.00 | -1.00 | 0.00 |
| 9,100. | | 105.30 | 9,063.1 | -139.5 | 510.0 | -108.0 | 1.00 | -1.00 | 0.00 |
| 9,200. | 0 3.87 | 105.30 | 9,162.8 | -141.5 | 517.4 | -109.6 | 1.00 | -1.00 | 0.00 |
| 9,300. | 0 2.87 | 105.30 | 9,262.6 | -143.1 | 523.0 | -110.8 | 1.00 | -1.00 | 0.00 |
| 9,400. | | 105.30 | 9,362.6 | -144.2 | 527.0 | -111.6 | 1.00 | -1.00 | 0.00 |
| 9,500. | | 105.30 | 9,462.5 | -144.8 | 529.4 | -112.1 | 1.00 | -1.00 | 0.00 |
| 9,587. | | 0.00 | 9,550.0 | -145.0 | 530.0 | -112.3 | 1.00 | -1.00 | 0.00 |
| | 5 hold at 9587.5 MI | | | | | | | | |
| 9,600. | 0.00 | 0.00 | 9,562.5 | -145.0 | 530.0 | -112.3 | 0.00 | 0.00 | 0.00 |
| 9,695. | 0.00 | 0.00 | 9,657.5 | -145.0 | 530.0 | -112.3 | 0.00 | 0.00 | 0.00 |
| KOP #2 - | Start Build 12.00 | | | | | | | | |
| 9,700. | 0.60 | 359.52 | 9,662.5 | -145.0 | 530.0 | -112.2 | 12.00 | 12.00 | 0.00 |



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

Project: Hat Mesa

Site:Wool Head 20 State Com Pad CWell:Wool Head 20 State Com 302HWellbore:Wool Head 20 State Com 302HDesign:Wool Head 20 State Com 302H

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Wool Head 20 State Com 302H WELL @ 3754.5usft (Original Well Elev) WELL @ 3754.5usft (Original Well Elev)

| esign: | Wool Head 20 | State Com 302 | !H | | | | | | |
|-----------------------------|--------------------|------------------|-----------------------------|--------------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| lanned Survey | | | | | | | | | |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 9,800.0 | 12.60 | 359.52 | 9,761.7 | -133.5 | 529.9 | -100.8 | 12.00 | 12.00 | 0.00 |
| 9,900.0 | 24.60 | 359.52 | 9,856.3 | -101.7 | 529.6 | -69.0 | 12.00 | 12.00 | 0.00 |
| 10,000.0 | 36.60 | 359.52 | 9,942.2 | -50.9 | 529.2 | -18.3 | 12.00 | 12.00 | 0.00 |
| 10,100.0 | 48.60 | 359.52 | 10,015.7 | 16.7 | 528.6 | 49.1 | 12.00 | 12.00 | 0.00 |
| 10,200.0 | 60.60 | 359.52 | 10,073.5 | 98.1 | 527.9 | 130.2 | 12.00 | 12.00 | 0.00 |
| 10,300.0 | 72.60 | 359.52 | 10,113.1 | 189.7 | 527.2 | 221.6 | 12.00 | 12.00 | 0.00 |
| 10,400.0 | 84.60 | 359.52 | 10,132.9 | 287.5 | 526.4 | 319.2 | 12.00 | 12.00 | 0.00 |
| 10,445.0 | 90.00 | 359.52 | 10,135.0 | 332.4 | 526.0 | 364.0 | 12.00 | 12.00 | 0.00 |
| LP - Start 72 | 40.8 hold at 104 | 45.0 MD | | | | | | | |
| 10,500.0 | 90.00 | 359.52 | 10,135.0 | 387.4 | 525.5 | 418.9 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 90.00 | 359.52 | 10,135.0 | 487.4 | 524.7 | 518.7 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 90.00 | 359.52 | 10,135.0 | 587.4 | 523.8 | 618.4 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 90.00 | 359.52 | 10,135.0 | 687.4 | 523.0 | 718.2 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | 90.00 | 359.52 | 10,135.0 | 787.4 | 522.1 | 817.9 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 90.00 | 359.52 | 10,135.0 | 887.4 | 521.3 | 917.7 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 90.00 | 359.52 | 10,135.0 | 987.4 | 520.4 | 1,017.5 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | 90.00 | 359.52 | 10,135.0 | 1,087.4 | 519.6 | 1,117.2 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | 90.00 | 359.52 | 10,135.0 | 1,187.4 | 518.8 | 1,217.0 | 0.00 | 0.00 | 0.00 |
| 11,400.0 | 90.00 | 359.52 | 10,135.0 | 1,287.4 | 517.9 | 1,316.7 | 0.00 | 0.00 | 0.00 |
| | | | * | | | | | | |
| 11,500.0 | 90.00 | 359.52 | 10,135.0 | 1,387.4 | 517.1 | 1,416.5 | 0.00 | 0.00 | 0.00 |
| 11,600.0 | 90.00 90.00 | 359.52 | 10,135.0 | 1,487.4 | 516.2 | 1,516.2 | 0.00 | 0.00 0.00 | 0.00 0.00 |
| 11,700.0 11,800.0 | 90.00 | 359.52 359.52 | 10,135.0 10,135.0 | 1,587.4 1,687.4 | 515.4 514.5 | 1,616.0 1,715.7 | 0.00 0.00 | 0.00 | 0.00 |
| 11,900.0 | 90.00 | 359.52 | 10,135.0 | 1,787.4 | 513.7 | 1,815.5 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 12,000.0 | 90.00 | 359.52 | 10,135.0 | 1,887.4 | 512.9 | 1,915.3 | 0.00 | 0.00 | 0.00 |
| 12,100.0 | 90.00 | 359.52 | 10,135.0 | 1,987.4 | 512.0 | 2,015.0 | 0.00 | 0.00 | 0.00 |
| 12,200.0 | 90.00 90.00 | 359.52 359.52 | 10,135.0 | 2,087.4 | 511.2 | 2,114.8 | 0.00 0.00 | 0.00 0.00 | 0.00 |
| 12,300.0 12,400.0 | 90.00 | 359.52 359.52 | 10,135.0 10,135.0 | 2,187.4 2,287.4 | 510.3 509.5 | 2,214.5 2,314.3 | 0.00 | 0.00 | 0.00 0.00 |
| | | | | | | | | | |
| 12,500.0 | 90.00 | 359.52 | 10,135.0 | 2,387.4 | 508.6 | 2,414.0 | 0.00 | 0.00 | 0.00 |
| 12,600.0 | 90.00 | 359.52 | 10,135.0 | 2,487.4 | 507.8 | 2,513.8 | 0.00 | 0.00 | 0.00 |
| 12,700.0 | 90.00 | 359.52 | 10,135.0 | 2,587.4 | 506.9 | 2,613.6 | 0.00 | 0.00 | 0.00 |
| 12,800.0 | 90.00 | 359.52 | 10,135.0 | 2,687.4 | 506.1 | 2,713.3 | 0.00 | 0.00 | 0.00 |
| 12,900.0 | 90.00 | 359.52 | 10,135.0 | 2,787.4 | 505.3 | 2,813.1 | 0.00 | 0.00 | 0.00 |
| 13,000.0 | 90.00 | 359.52 | 10,135.0 | 2,887.4 | 504.4 | 2,912.8 | 0.00 | 0.00 | 0.00 |
| 13,100.0 | 90.00 | 359.52 | 10,135.0 | 2,987.3 | 503.6 | 3,012.6 | 0.00 | 0.00 | 0.00 |
| 13,200.0 | 90.00 | 359.52 | 10,135.0 | 3,087.3 | 502.7 | 3,112.3 | 0.00 | 0.00 | 0.00 |
| 13,300.0 | 90.00 | 359.52 | 10,135.0 | 3,187.3 | 501.9 | 3,212.1 | 0.00 | 0.00 | 0.00 |
| 13,400.0 | 90.00 | 359.52 | 10,135.0 | 3,287.3 | 501.0 | 3,311.9 | 0.00 | 0.00 | 0.00 |
| 13,500.0 | 90.00 | 359.52 | 10,135.0 | 3,387.3 | 500.2 | 3,411.6 | 0.00 | 0.00 | 0.00 |
| 13,600.0 | 90.00 | 359.52 | 10,135.0 | 3,487.3 | 499.4 | 3,511.4 | 0.00 | 0.00 | 0.00 |
| 13,700.0 | 90.00 | 359.52 | 10,135.0 | 3,587.3 | 498.5 | 3,611.1 | 0.00 | 0.00 | 0.00 |
| 13,800.0 | 90.00 | 359.52 | 10,135.0 | 3,687.3 | 497.7 | 3,710.9 | 0.00 | 0.00 | 0.00 |
| 13,900.0 | 90.00 | 359.52 | 10,135.0 | 3,787.3 | 496.8 | 3,810.6 | 0.00 | 0.00 | 0.00 |
| 14,000.0 | 90.00 | 359.52 | 10,135.0 | 3,887.3 | 496.0 | 3,910.4 | 0.00 | 0.00 | 0.00 |
| 14,100.0 | 90.00 | 359.52 | 10,135.0 | 3,987.3 | 495.1 | 4,010.2 | 0.00 | 0.00 | 0.00 |
| 14,200.0 | 90.00 | 359.52 | 10,135.0 | 4,087.3 | 494.3 | 4,109.9 | 0.00 | 0.00 | 0.00 |
| 14,300.0 | 90.00 | 359.52 | 10,135.0 | 4,187.3 | 493.4 | 4,209.7 | 0.00 | 0.00 | 0.00 |
| 14,400.0 | 90.00 | 359.52 | 10,135.0 | 4,287.3 | 492.6 | 4,309.4 | 0.00 | 0.00 | 0.00 |
| 14,500.0 | 90.00 | 359.52 | 10,135.0 | 4,387.3 | 491.8 | 4,409.2 | 0.00 | 0.00 | 0.00 |
| 14,600.0 | 90.00 | 359.52 | 10,135.0 | 4,487.3 | 490.9 | 4,508.9 | 0.00 | 0.00 | 0.00 |
| 14,700.0 | 90.00 | 359.52 | 10,135.0 | 4,587.3 | 490.1 | 4,608.7 | 0.00 | 0.00 | 0.00 |
| 14,800.0 | 90.00 | 359.52 | 10,135.0 | 4,687.3 | 489.2 | 4,708.5 | 0.00 | 0.00 | 0.00 |
| 14,900.0 | 90.00 | 359.52 | 10,135.0 | 4,787.3 | 488.4 | 4,808.2 | 0.00 | 0.00 | 0.00 |



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

Project: Hat Mesa

Site:Wool Head 20 State Com Pad CWell:Wool Head 20 State Com 302HWellbore:Wool Head 20 State Com 302HDesign:Wool Head 20 State Com 302H

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Wool Head 20 State Com 302H WELL @ 3754.5usft (Original Well Elev) WELL @ 3754.5usft (Original Well Elev)

Grid

| ned Survey | | | | | | | | | |
|-------------------|-------------|---------|-------------------|---------|--------|---------------------|----------------|---------------|--------------|
| Measured Depth | Inclination | Azimuth | Vertical Depth | +N/-S | +E/-W | Vertical Section | Dogleg Rate | Build Rate | Turn Rate |
| (usft) | (°) | (°) | (usft) | (usft) | (usft) | (usft) | (°/100usft) | (°/100usft) | (°/100usft) |
| 15,000.0 | 90.00 | 359.52 | 10,135.0 | 4,887.3 | 487.5 | 4,908.0 | 0.00 | 0.00 | 0.00 |
| 15,100.0 | 90.00 | 359.52 | 10,135.0 | 4,987.3 | 486.7 | 5,007.7 | 0.00 | 0.00 | 0.00 |
| 15,200.0 | 90.00 | 359.52 | 10,135.0 | 5,087.3 | 485.8 | 5,107.5 | 0.00 | 0.00 | 0.00 |
| 15,300.0 | 90.00 | 359.52 | 10,135.0 | 5,187.3 | 485.0 | 5,207.2 | 0.00 | 0.00 | 0.00 |
| 15,400.0 | 90.00 | 359.52 | 10,135.0 | 5,287.3 | 484.2 | 5,307.0 | 0.00 | 0.00 | 0.00 |
| 15,500.0 | 90.00 | 359.52 | 10,135.0 | 5,387.3 | 483.3 | 5,406.8 | 0.00 | 0.00 | 0.00 |
| 15,600.0 | 90.00 | 359.52 | 10,135.0 | 5,487.3 | 482.5 | 5,506.5 | 0.00 | 0.00 | 0.00 |
| 15,700.0 | 90.00 | 359.52 | 10,135.0 | 5,587.3 | 481.6 | 5,606.3 | 0.00 | 0.00 | 0.00 |
| 15,800.0 | 90.00 | 359.52 | 10,135.0 | 5,687.3 | 480.8 | 5,706.0 | 0.00 | 0.00 | 0.00 |
| 15,900.0 | 90.00 | 359.52 | 10,135.0 | 5,787.2 | 479.9 | 5,805.8 | 0.00 | 0.00 | 0.00 |
| 16,000.0 | 90.00 | 359.52 | 10,135.0 | 5,887.2 | 479.1 | 5,905.5 | 0.00 | 0.00 | 0.00 |
| 16,100.0 | 90.00 | 359.52 | 10,135.0 | 5,987.2 | 478.3 | 6,005.3 | 0.00 | 0.00 | 0.00 |
| 16,200.0 | 90.00 | 359.52 | 10,135.0 | 6,087.2 | 477.4 | 6,105.1 | 0.00 | 0.00 | 0.00 |
| 16,300.0 | 90.00 | 359.52 | 10,135.0 | 6,187.2 | 476.6 | 6,204.8 | 0.00 | 0.00 | 0.00 |
| 16,400.0 | 90.00 | 359.52 | 10,135.0 | 6,287.2 | 475.7 | 6,304.6 | 0.00 | 0.00 | 0.00 |
| 16,500.0 | 90.00 | 359.52 | 10,135.0 | 6,387.2 | 474.9 | 6,404.3 | 0.00 | 0.00 | 0.00 |
| 16,600.0 | 90.00 | 359.52 | 10,135.0 | 6,487.2 | 474.0 | 6,504.1 | 0.00 | 0.00 | 0.00 |
| 16,700.0 | 90.00 | 359.52 | 10,135.0 | 6,587.2 | 473.2 | 6,603.8 | 0.00 | 0.00 | 0.00 |
| 16,800.0 | 90.00 | 359.52 | 10,135.0 | 6,687.2 | 472.3 | 6,703.6 | 0.00 | 0.00 | 0.00 |
| 16,900.0 | 90.00 | 359.52 | 10,135.0 | 6,787.2 | 471.5 | 6,803.3 | 0.00 | 0.00 | 0.00 |
| 17,000.0 | 90.00 | 359.52 | 10,135.0 | 6,887.2 | 470.7 | 6,903.1 | 0.00 | 0.00 | 0.00 |
| 17,100.0 | 90.00 | 359.52 | 10,135.0 | 6,987.2 | 469.8 | 7,002.9 | 0.00 | 0.00 | 0.00 |
| 17,200.0 | 90.00 | 359.52 | 10,135.0 | 7,087.2 | 469.0 | 7,102.6 | 0.00 | 0.00 | 0.00 |
| 17,300.0 | 90.00 | 359.52 | 10,135.0 | 7,187.2 | 468.1 | 7,202.4 | 0.00 | 0.00 | 0.00 |
| 17,400.0 | 90.00 | 359.52 | 10,135.0 | 7,287.2 | 467.3 | 7,302.1 | 0.00 | 0.00 | 0.00 |
| 17,500.0 | 90.00 | 359.52 | 10,135.0 | 7,387.2 | 466.4 | 7,401.9 | 0.00 | 0.00 | 0.00 |
| 17,600.0 | 90.00 | 359.52 | 10,135.0 | 7,487.2 | 465.6 | 7,501.6 | 0.00 | 0.00 | 0.00 |
| 17,685.8 | 90.00 | 359.52 | 10,135.0 | 7,573.0 | 464.9 | 7,587.2 | 0.00 | 0.00 | 0.00 |

| Design Targets | | | | | | | | | |
|--|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|------------------|-------------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| Wool Head 20 State Cor - plan hits target cent - Point | 0.00 ter | 0.00 | 10,135.0 | 7,573.0 | 464.9 | 538,642.11 | 769,134.98 | 32° 28' 43.039 N | 103° 35' 40.632 W |

| Casing Points | | | | | | |
|---------------|----------|-------------|------|----------|----------|--|
| | Measured | Vertical | | Casing | Hole | |
| | Depth | Depth | | Diameter | Diameter | |
| | (usft) | (usft) | Name | (") | (") | |
| | 10,445.0 | 10,135.0 LP | | 5-1/2 | 5-1/2 | |



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

Project: Hat Mesa

Site: Wool Head 20 State Com Pad C
Well: Wool Head 20 State Com 302H
Wellbore: Wool Head 20 State Com 302H
Design: Wool Head 20 State Com 302H

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Wool Head 20 State Com 302H WELL @ 3754.5usft (Original Well Elev)

WELL @ 3754.5usft (Original Well Elev)

Grid

| an Annotations | | | | | |
|----------------|----------|------------|---------|--------------------------------------|--|
| Measured | Vertical | Local Coor | dinates | | |
| Depth | Depth | +N/-S | +E/-W | | |
| (usft) | (usft) | (usft) | (usft) | Comment | |
| 5,000.0 | 5,000.0 | 0.0 | 0.0 | KOP - Start Build 1.00 | |
| 5,843.6 | 5,840.6 | -16.4 | 59.8 | Start 2900.2 hold at 5843.6 MD | |
| 8,743.9 | 8,709.4 | -128.6 | 470.2 | Start Drop -1.00 | |
| 9,587.5 | 9,550.0 | -145.0 | 530.0 | Start 107.5 hold at 9587.5 MD | |
| 9,695.0 | 9,657.5 | -145.0 | 530.0 | KOP #2 - Start Build 12.00 | |
| 10,445.0 | 10,135.0 | 332.4 | 526.0 | LP - Start 7240.8 hold at 10445.0 MD | |
| 17,685.8 | 10,135.0 | 7,573.0 | 464.9 | TD at 17685.8 | |



WELL DETAILS: Wool Head 20 State Com 302H

Ground Elev: 3722.0 KB: 3754.5

+N/-S +E/-W Northing Easting Latittude Longitude 0.0 0.0 531069.15 768670.11 32° 27' 28.138 N 103° 35' 46.669 W

PROJECT DETAILS: Hat Mesa

Geodetic System: US State Plane 1983

Datum: North American Datum 1983

Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

