Township 21 South, Range 33 East Section 18: E2 320.00 Gross Acres Lea County, NM Case No. 15992-15996



Ascent Energy LLC – 100% 160.00 Gross Acres

Centennial Resources Production LLC
– 100%
160.00 Gross Acres



			DELAWARE BASIN	- DELAWARE BASIN			
29	28	27	26	25	30	29	28
32	33	34	35	36	31	32	33
4	3	2	1	6	5	4	3
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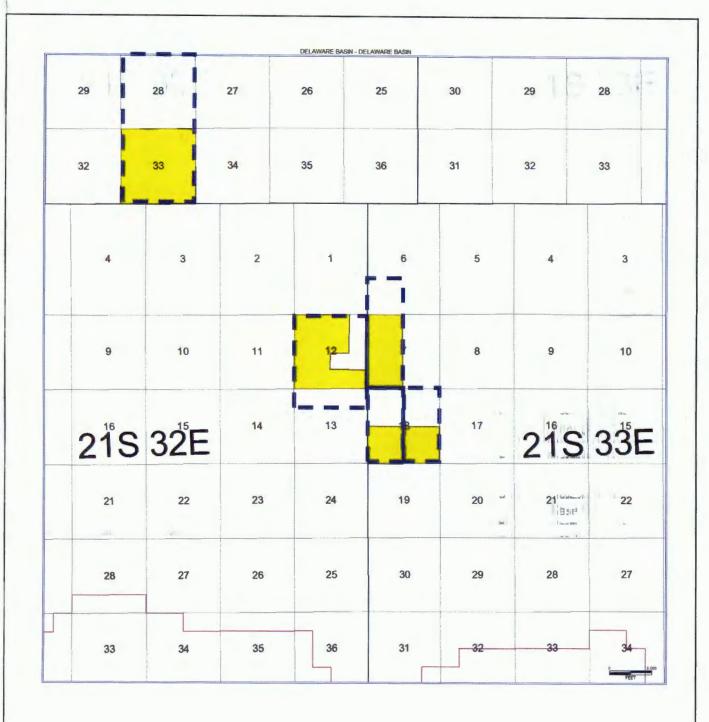
Ascent Energy, LLC

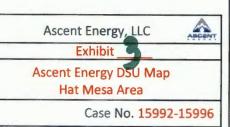
Exhibit

Ascent Energy Lase Map

Hat Mesa Area

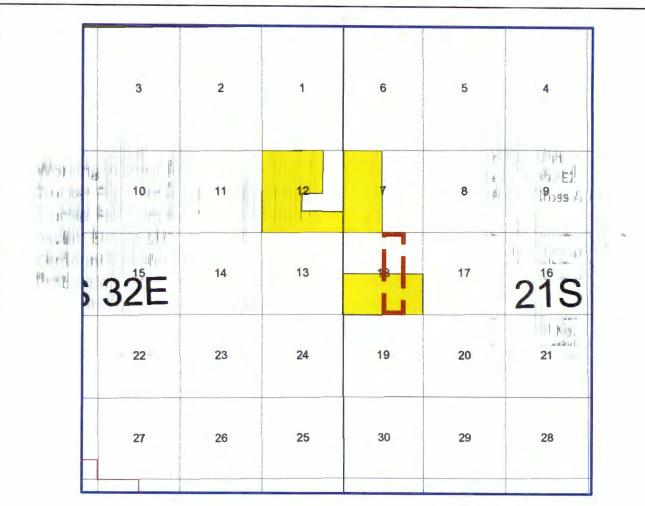
Case No. 15992-15996





Township 21 South, Range 33 East

Section 18: W2E2 160.00 Gross Acres Lea County, NM Case No. 15992 & 15995



Working Interest for:

1

Trucker Fed Com #501H (Bone Spring Formation)
Trucker Fed Com #701H (Wolfcamp Formation)

Ascent Energy LLC:

50.00%

Centennial Resources

Production LLC:

50.00%

Total:

100.00%



Pooling Unit Sec. 18: W2E2

160.00 Gross Acres

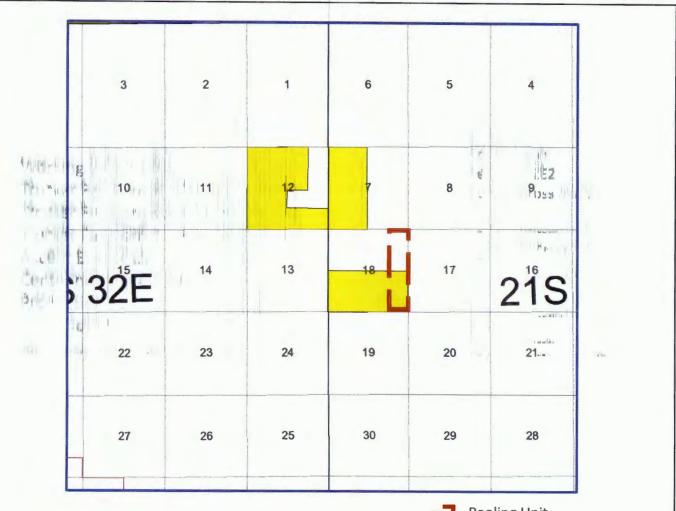
Ascent Energy, LLC

Exhibit

Ascent Energy Working Interest
Pooling Unit Map

Case No. 15992 & 15995

Township 21 South, Range 33 East Section 18: E2E2 160.00 Gross Acres Lea County, NM Case No. 15993, 15994, & 15996



Working Interest for:

Trucker Fed Com #502H (Bone Spring Formation)
Trucker Fed Com #601H (Bone Spring Formation)
Trucker Fed Com #703H (Wolfcamp Formation)

Ascent Energy LLC:

50.00%

Centennial Resources

Production LLC:

50.00%

Total:

100.00%



Pooling Unit Sec. 18: E2E2

160.00 Gross Acres

Ascent Energy, LLC

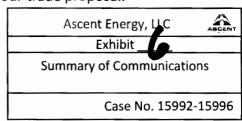


Ascent Energy Working Interest Pooling Unit Map

Case No. 15993, 15994 & 15996

Summary of Communications Trucker Fed Com Wells Centennial Resources Production LLC Case No. 15992-15996

- 11/16/2016 Emailed Offer to Purchase to GMT Exploration for its interest in Sec. 18, T21S-R33E. GMT's response was that they were selling all their assets in Lea County and wouldn't exclude this lease from that sale.
- 6/30/2017 Had Lunch with Aaron Tenenholz, Centennial's Land Manager to discuss this federal lease in 21S-33E Sec. 18: NE. He asked us to send an offer.
- 7/10/2017 Sent Offer to Purchase to Centennial. Mr. Tenenholz indicated that the price was competitive but couldn't get any support from management regarding selling.
- 9/27/2017 Sent well proposal to Centennial for the Trucker Fed Com #501H
- 10/21/2017 Met with Centennial's VP of land, Land Manager and Landman in their offer to discuss our well proposal and their participation.
- 10/24/2017 At their request, emailed a copy of our 2015 AAPL Form Operating, Agreement.
- 11/1/2017 Received a phone call from Mr. Tenenholz regarding Ascent's Trucker Fed Com #501H well proposal.
- 11/1/2017 Received a letter from Centennial for the Horseshoe Fed Com #601H well.
- 11/24/2017 Ascent arranged a group technical meeting at Centennial's office regarding.
 Ascent's proposed landing targets and also to review unit development, completion.
 techniques etc.
- 1/22/2018 Received phone call from Mr. Tenenholz saying they were proceeding with compulsory pooling on their Horseshoe Fed Com 601H.
- 1/22/2018 Received letters from Centennial for Horseshoe Fed Com 701H, Horseshoe Fed Com 702H, Horseshoe Fed Com 602H.
- 1/23/2018 Emailed and hand delivered to Centennial well proposals for Ascent's Trucker Fed Com 502H, Trucker Fed Com 601H, Trucker Fed Com 701H and Trucker Fed Com 703H.
- 1/23/2018 Filed for compulsory pooling on Ascent's Truckers wells.
- 2/2/2018 Met with Mr. Tenenholz and Gavin Smith, Landman regarding a Centennial proposed acreage swap.
- 2/2/2018 Spoke with Mr. Tenenholz and offered a trade proposal for Ascent's 290 acres in 19S-34E Sec. 1: S2.
- 2/12/2018 Followed-up with Mr. Tenenholz and he said they have not reviewed our proposal.
- 2/13/2018 Followed-up by email to Mr. Tenenholz with a written trade proposal as mentioned above.
- 3/6/2018 Received an email that Centennial has declined our trade proposal.



Summary of Progress Trucker Fed Com Wells Centennial Resources Production LLC Case No. 15992-15996

- 8/31/2017 Jim Rutley of the BLM informed us that the south half of Section 18 was within the Potash LMR and any well pads were unlikely to be approved.
- 11/10/2017 Submitted Trucker Notice of Stakings to the BLM.
- 1/24/2018 Met with manager of Berry Ranch, who is the grazing lessee on Section 7: SE to map out potential wells location and access roads for Ascent's development in Sections 7 and 18, 21S-33E and Section 12 and 13, 21S-32E.
- 2/5/2018 Phone call with the NMSLO is discuss a Business Lease for a surface location off unit.
- 3/5/2018 Met with BLM for on-site for the Trucker (and Sombrero) surface locations. BLM approved the surface locations for the Trucker and Sombrero pads, in addition to our planned road and midstream plan.
- 3/7/2018 Conference call with Cimarex's Landman and Asset Manager to discuss the unique topography concerns and our request to use 21S-33E Sec. 7: SE/4 for our well pad surface locations. Cimarex agreed to our proposed well pad locations. Working towards securing agreements.

Ascent Energy

Exhibit

Summary of Progress

Case No. 15992-15996



September 26, 2017

Centennial Resource Development, Inc. 1001 Seventeenth Street, Suite 1800 Denver, CO 80202

Attn: Mr. Aaron Tenenholz

RE: Trucker Fed Com #501H

T21S-R33E
Sec. 18: E2
320 Gross Acres, more or less
Lea County, New Mexico

Dear Working Interest Owner:

Ascent Energy, LLC ("Ascent") hereby proposes the drilling, completing and equipping the Trucker Fed Com #501H well (the "Well") to test the Bone Spring formation at a total vertical depth of 11,120' and a total measured depth of 16,488' ("Operation"). The estimated cost associated with the Operation is \$6,741,838, as outlined in the enclosed Authority for Expenditure dated September 15, 2017. Ascent's records indicate that Centennial Resource Development, Inc. ("Centennial") owns a 50.00% working interest in the Well, and Centennial's estimated costs associated with this Operation is approximately \$3,370,919.

The proposed surface location of the Well is 684' FSL & 2,252' FWL of Section 7, Township 21 South, Range 33 East with a proposed bottom hole location 330' FSL & 2,242' FEL of Section 18 Township 21 South, Range 33 East. Ascent reserves the right to modify the locations and drilling plans described above in order to address topography, cultural or environmental concerns, among other reasons. Ascent will advise you of any such modifications.

In addition, Ascent proposes the Operation under the terms of a modified 2015 Horizontal AAPL Forma 610 Operating Agreement ("OA") with the following basic terms.

- Contract Area consisting of Township 21 South, Range 33 East, Section 18: E2, with Ascent listed as Operator ("Contract Area")
- 100%/300%/300% non-consent penalties
- \$7,000.00/\$700.00 drilling and producing overhead rates

Please indicate your election in the Operation and return a signed copy within thirty (30) days of receipt of this notice to Ascent. If Centennial is interested in selling its interest in the Contract Area, please contact the undersigned at your earliest convenience.



September 26, 2017 Trucker Fed Com #501H Page 2 of 2

Title: _____

Date:

Ascent looks forward to working with Centennial on this matter and may file for compulsory pooling in the near future to pool any uncommitted working interest owners. If you have any questions or concerns, please do not hesitate to contact the undersigned at (720) 710-8923 or lizink@ascentenergy.us.

Centennial Resource Development, Inc. hereby elects not to participate in the proposed Operation.

Centennial Resource Development, Inc. hereby elects not to participate in the proposed Operation.

Working Interest Owner:

Centennial Resource Development, Inc. hereby elects not to participate in the proposed Operation.

Working Interest Owner:

Centennial Resource Development, Inc. hereby elects not to participate in the proposed Operation.



January 22, 2018

Centennial Resource Development, Inc. 1001 Seventeenth Street, Suite 1800 Denver, CO 80202

Attn: Mr. Aaron Tenenholz

RE: Amendment to Contract Area

Trucker Fed Com #501H

T21S-R33E Sec. 18: W2E2

160.00 Gross Acres, more or less

Lea County, New Mexico

Dear Working Interest Owner:

Reference is made to the Trucker Fed Com #501H well proposal dated September 26, 2017, by Ascent Energy, LLC ("Ascent") ("Original Proposal"). Ascent hereby revises the Original Proposal to amend the Contract Area as follows:

Contract Area

The Contract Area from the Original Proposal is hereby stricken and replaced as Township 21 South, Range 33 East, Section 18: W2E2, covering 160 acres, with Ascent listed as Operator ("Revised Contract Area").

All other terms and dates of the Original Proposal remained unchanged. If you have any questions or concerns, please do not hesitate to contact the undersigned at (720) 710-8923 or lizink@ascentenergy.us.

Very Truly Yours,

Lee Zink

Land Manager



January 22, 2018

Centennial Resource Development, Inc. 1001 Seventeenth Street, Suite 1800 Denver, CO 80202

Attn: Mr. Aaron Tenenholz

RE:

Trucker Fed Com #502H

T21S-R33E Sec. 18: E2E2 160.00 Gross Acres, more or less

Lea County, New Mexico

Dear Working Interest Owner:

Ascent Energy, LLC ("Ascent") hereby proposes the drilling, completing and equipping the Trucker Fed Com #502H well (the "Well") to test the Bone Spring formation at a total vertical depth of 11,030' and a total measured depth of 15,910' ("Operation"). The estimated cost associated with the Operation is \$6,864,106, as outlined in the enclosed Authority for Expenditure dated January 22, 2018. Ascent's records indicate that Centennial Resource Development, Inc. ("Centennial") owns a 50.00% working interest in the Well, and Centennial's estimated costs associated with this Operation is approximately \$3,432,053.

The proposed surface location of the Well is 431' FSL & 378' FEL of Section 7, Township 21 South, Range 33 East with a proposed bottom hole location 330' FSL & 360' FEL of Section 18 Township 21 South, Range 33 East. Ascent reserves the right to modify the locations and drilling plans described above in order to address topography, cultural or environmental concerns, among other reasons. Ascent will advise you of any such modifications.

In addition, Ascent proposes the Operation under the terms of a modified 2015 Horizontal AAPL Forma 610 Operating Agreement ("OA") with the following basic terms.

- Contract Area consisting of Township 21 South, Range 33 East, Section 18: E2E2, with Ascent listed as Operator ("Contract Area")
- 100%/300%/300% non-consent penalties
- \$7,000.00/\$700.00 drilling and producing overhead rates

Please indicate your election in the Operation and return a signed copy within thirty (30) days of receipt of this notice to Ascent. If Centennial is interested in selling its interest in the Contract Area, please contact the undersigned at your earliest convenience.

January 22, 2018 Trucker Fed Com #502H Page 2 of 2

Ascent looks forward to working with Centennial on this matter and may file for compulsory pooling in the near future to pool any uncommitted working interest owners. If you have any questions or concerns, please do not hesitate to contact the undersigned at (720) 710-8923 or lizink@ascentenergy.us.

Lee Zink
Land Manager
Ascent Energy, LLC
1621 18th Street, Suite 200
Denver, CO 80202

Very Truly Yours,

Enclosure(s)
Centennial Resource Development, Inc. hereby elects to participate in the proposed Operation by paying its proportionate share of the costs outlined on the Trucker Fed Com #502H AFE.
Centennial Resource Development, Inc. hereby elects not to participate in the proposed Operation.
Working Interest Owner:
Centennial Resource Development, Inc.
Ву:
Title:
Date:



January 22, 2018

Centennial Resource Development, Inc. 1001 Seventeenth Street, Suite 1800 Denver, CO 80202

Attn: Mr. Aaron Tenenholz

RE: Trucker Fed Com #601H

T21S-R33E
Sec. 18: E2E2
160.00 Gross Acres, more or less
Lea County, New Mexico

Dear Working Interest Owner:

Ascent Energy, LLC ("Ascent") hereby proposes the drilling, completing and equipping the Trucker Fed Com #601H well (the "Well") to test the Bone Spring formation at a total vertical depth of 11,700' and a total measured depth of 16,590' ("Operation"). The estimated cost associated with the Operation is \$6,944,467, as outlined in the enclosed Authority for Expenditure dated January 22, 2018. Ascent's records indicate that Centennial Resource Development, Inc. ("Centennial") owns a 50.00% working interest in the Well, and Centennial's estimated costs associated with this Operation is approximately \$3,472,233.

The proposed surface location of the Well is 360' FSL & 2,130' FEL of Section 7, Township 21 South, Range 33 East with a proposed bottom hole location 330' FSL & 1,120' FEL of Section 18 Township 21 South, Range 33 East. Ascent reserves the right to modify the locations and drilling plans described above in order to address topography, cultural or environmental concerns, among other reasons. Ascent will advise you of any such modifications.

In addition, Ascent proposes the Operation under the terms of a modified 2015 Horizontal AAPL Forma 610 Operating Agreement ("OA") with the following basic terms.

- Contract Area consisting of Township 21 South, Range 33 East, Section 18: E2E2, with Ascent listed as Operator ("Contract Area")
- 100%/300%/300% non-consent penalties
- \$7,000.00/\$700.00 drilling and producing overhead rates

Please indicate your election in the Operation and return a signed copy within thirty (30) days of receipt of this notice to Ascent. If Centennial is interested in selling its interest in the Contract Area, please contact the undersigned at your earliest convenience.

January 22, 2018 Trucker Fed Com #601H Page 2 of 2

Ascent looks forward to working with Centennial on this matter and may file for compulsory pooling in the near future to pool any uncommitted working interest owners. If you have any questions or concerns, please do not hesitate to contact the undersigned at (720) 710-8923 or <u>lzink@ascentenergy.us</u>.

Lee Zink
Land Manager
Ascent Energy, LLC
1621 18th Street, Suite 200

Very Truly Yours,

Denver, CO 80202

Date:

Enclosure(s)

Centennial Resource Development, Inc. hereby elects to participate in the proposed Operation by paying its proportionate share of the costs outlined on the Trucker Fed Com #601H AFE.

Centennial Resource Development, Inc. hereby elects not to participate in the proposed Operation.

Working Interest Owner:

Centennial Resource Development, Inc.

By:_______

Title: ______



January 22, 2018

Centennial Resource Development, Inc. 1001 Seventeenth Street, Suite 1800 Denver, CO 80202

Attn: Mr. Aaron Tenenholz

RE: Trucker Fed Com #701H

T21S-R33E
Sec. 18: W2E2
160.00 Gross Acres, more or less
Lea County, New Mexico

Dear Working Interest Owner:

Ascent Energy, LLC ("Ascent") hereby proposes the drilling, completing and equipping the Trucker Fed Com #701H well (the "Well") to test the Wolfcamp formation at a total vertical depth of 11,875' and a total measured depth of 16,750' ("Operation"). The estimated cost associated with the Operation is \$7,494,705, as outlined in the enclosed Authority for Expenditure dated January 22, 2018. Ascent's records indicate that Centennial Resource Development, Inc. ("Centennial") owns a 50.00% working interest in the Well, and Centennial's estimated costs associated with this Operation is approximately \$3,747,352.

The proposed surface location of the Well is 360' FSL & 2,080' FEL of Section 7, Township 21 South, Range 33 East with a proposed bottom hole location 330' FSL & 1,870' FEL of Section 18 Township 21 South, Range 33 East. Ascent reserves the right to modify the locations and drilling plans described above in order to address topography, cultural or environmental concerns, among other reasons. Ascent will advise you of any such modifications.

In addition, Ascent proposes the Operation under the terms of a modified 2015 Horizontal AAPL Forma 610 Operating Agreement ("OA") with the following basic terms.

- Contract Area consisting of Township 21 South, Range 33 East, Section 18: W2E2, with Ascent listed as Operator ("Contract Area")
- 100%/300%/300% non-consent penalties
- \$7,000.00/\$700.00 drilling and producing overhead rates

Please indicate your election in the Operation and return a signed copy within thirty (30) days of receipt of this notice to Ascent. If Centennial is interested in selling its interest in the Contract Area, please contact the undersigned at your earliest convenience.

January 22, 2018 Trucker Fed Com #701H Page 2 of 2

Ascent looks forward to working with Centennial on this matter and may file for compulsory pooling in the near future to pool any uncommitted working interest owners. If you have any questions or concerns, please do not hesitate to contact the undersigned at (720) 710-8923 or lizink@ascentenergy.us.

Very Truly Yours, Lee Zink Land Manager Ascent Energy, LLC 1621 18th Street, Suite 200 Denver, CO 80202 Enclosure(s) Centennial Resource Development, Inc. hereby elects to participate in the proposed Operation by paying its proportionate share of the costs outlined on the Trucker Fed Com #701H AFE. Centennial Resource Development, Inc. hereby elects not to participate in the proposed Operation. Working Interest Owner: Centennial Resource Development, Inc. By:_____ Title: _____ Date: _____



January 22, 2018

Centennial Resource Development, Inc. 1001 Seventeenth Street, Suite 1800 Denver, CO 80202

Attn: Mr. Aaron Tenenholz

RE: Trucker Fed Com #703H

T21S-R33E
Sec. 18: E2E2
160.00 Gross Acres, more or less
Lea County, New Mexico

Dear Working Interest Owner:

Ascent Energy, LLC ("Ascent") hereby proposes the drilling, completing and equipping the Trucker Fed Com #703H well (the "Well") to test the Wolfcamp formation at a total vertical depth of 11,850' and a total measured depth of 16,740' ("Operation"). The estimated cost associated with the Operation is \$7,494,705, as outlined in the enclosed Authority for Expenditure dated January 22, 2018. Ascent's records indicate that Centennial Resource Development, Inc. ("Centennial") owns a 50.00% working interest in the Well, and Centennial's estimated costs associated with this Operation is approximately \$3,747,352.

The proposed surface location of the Well is 431' FSL & 328' FEL of Section 7, Township 21 South, Range 33 East with a proposed bottom hole location 330' FSL & 370' FEL of Section 18 Township 21 South, Range 33 East. Ascent reserves the right to modify the locations and drilling plans described above in order to address topography, cultural or environmental concerns, among other reasons. Ascent will advise you of any such modifications.

In addition, Ascent proposes the Operation under the terms of a modified 2015 Horizontal AAPL Forma 610 Operating Agreement ("OA") with the following basic terms.

- Contract Area consisting of Township 21 South, Range 33 East, Section 18: E2E2, with Ascent listed as Operator ("Contract Area")
- 100%/300%/300% non-consent penalties
- \$7,000.00/\$700.00 drilling and producing overhead rates

Please indicate your election in the Operation and return a signed copy within thirty (30) days of receipt of this notice to Ascent. If Centennial is interested in selling its interest in the Contract Area, please contact the undersigned at your earliest convenience.

January 22, 2018 Trucker Fed Com #703H Page 2 of 2

Ascent looks forward to working with Centennial on this matter and may file for compulsory pooling in the near future to pool any uncommitted working interest owners. If you have any questions or concerns, please do not hesitate to contact the undersigned at (720) 710-8923 or link@ascentenergy.us.

Lee Zink
Land Manager
Ascent Energy, LLC
1621 18th Street, Suite 200
Denver, CO 80202

Very Truly Yours,

Enclosure(s)
Centennial Resource Development, Inc. hereby elects to participate in the proposed Operation by paying its proportionate share of the costs outlined on the Trucker Fed Com #703H AFE.
Centennial Resource Development, Inc. hereby elects not to participate in the proposed Operation.
Working Interest Owner:
Centennial Resource Development, Inc.
By:
Title:
Date:



January 23, 2018

Centennial Resource Development, Inc. 1001 Seventeenth Street, Suite 1800 Denver, CO 80202

Attn: Mr. Aaron Tenenholz

RE: Hand Delivery

By signature of the undersigned, Centennial Resource Development, Inc. acknowledges receipt from Ascent Energy, LLC of a hand delivered envelope.

Date

Bv:

Title

Encl.: Trucker Fed Com #502H Well Proposal

Trucker Fed Com #601H Well Proposal Trucker Fed Com #701H Well Proposal Trucker Fed Com #702H Well Proposal

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

APPLICATION OF ASCENT ENERGY, LLC FOR A NON-STANDARD SPACING AND PRORATION UNIT AND COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

Case No. 15992

APPLICATION OF ASCENT ENERGY, LLC FOR A NON-STANDARD SPACING AND PRORATION UNIT AND COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

Case No. 15993

APPLICATION OF ASCENT ENERGY, LLC FOR A NON-STANDARD SPACING AND PRORATION UNIT, AN UNORTHODOX OIL WELL LOCATION, AND COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

Case No. 15994

APPLICATION OF ASCENT ENERGY, LLC FOR A NON-STANDARD SPACING AND PRORATION UNIT AND COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

Case No. 15995

APPLICATION OF ASCENT ENERGY, LLC FOR A NON-STANDARD SPACING AND PRORATION UNIT AND COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

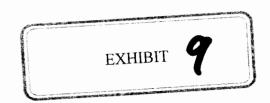
Case No. 15996

AFFIDAVIT OF NOTICE

COUNTY OF SANTA FE)) ss.
STATE OF NEW MEXICO)

James Bruce, being duly sworn upon his oath, deposes and states:

- 1. I am over the age of 18, and have personal knowledge of the matters stated herein.
- 2. I am an attorney for Ascent Energy, LLC.



- Ascent Energy, LLC has conducted a good faith, diligent effort to find the names and correct addresses of the interest owners entitled to receive notice of the applications filed herein.
- 4. Notice of the applications was provided to the interest owner, at its correct addresses, by certified mail. Copies of the notice letter and certified return receipt are attached hereto as Attachment A.

Applicant has complied with the notice provisions of Division Rules NMAC 5. 19.15.4.9 and 19.15.4.12.C.

SUBSCRIBED AND SWORN TO before me this 4th day of March, 2018 by James

OFFICIAL SEAL KERRIE C. ALLEN Motary Public State of New Mexico Expires 10 22-18

Bruce.

My Commission E

JAMES BRUCE ATTORNEY AT LAW

POST OFFICE BOX 1056 SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213 SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone) (505) 660-6612 (Cell) (505) 982-2151 (Fax)

jamesbruc@aol.com

February 1, 2018

CERTIFIED MAIL

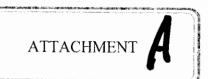
Centennial Resource Development, Inc. Suite 1800 1001 Seventeenth Street Denver, Colorado 80202

Ladies and gentlemen:

Enclosed are copies of five applications for a non-standard oil spacing and proration unit and compulsory pooling, filed with the New Mexico Oil Conservation Division by Ascent Energy, LLC, regarding:

- 1. A Bone Spring well in the W/2E/2 of Section 18, in Township 21 South, Range 33 East, NMPM, Lea County, New Mexico;
- 2. A Bone Spring well in the E/2E/2 of Section 18, in Township 21 South, Range 33 East, NMPM, Lea County, New Mexico;
- 3. A Bone Spring well in the E/2E/2 of Section 18, in Township 21 South, Range 33 East, NMPM, Lea County, New Mexico. Applicant also requests approval of an unorthodox oil well location;
- 4. A Wolfcamp well in the W/2E/2 of Section 18, in Township 21 South, Range 33 East, NMPM, Lea County, New Mexico; and
- 5. A Wolfcamp well in the E/2E/2 of Section 18, in Township 21 South, Range 33 East, NMPM, Lea County, New Mexico

These matters are scheduled for hearing at 8:15 a.m. on Thursday, February 22, 2018, in Porter Hall at the Division's offices at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest that may be affected by



these applications, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from contesting these matters at a later date.

A party appearing in a Division case is required by Division Rules to file a Pre-Hearing Statement no later than Thursday, February 15, 2018. This statement must be filed with the Division's Santa Fe office at the above address, and should include: The names of the party and its attorney; a concise statement of the case; the names of the witnesses the party will call to testify at the hearing; the approximate time the party will need to present its case; and identification of any procedural matters that need to be resolved prior to the hearing. The Pre-Hearing Statement must also be provided to the undersigned.

Very truly yours,

Attorney for Ascent Energy, LLC

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	Centennial Kesource Dev	elopment, Inc.
Street and Apt. No., or Denver, Colorado 80202		
City, State, ZIP+4*	λίγ, State, ZIP+4*	

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STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

APPLICATION OF ASCENT ENERGY, LLC FOR A NON-STANDARD SPACING AND PRORATION UNIT AND COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

Case No. 15992

APPLICATION OF ASCENT ENERGY, LLC FOR A NON-STANDARD SPACING AND PRORATION UNIT AND COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

Case No. 15993

APPLICATION OF ASCENT ENERGY, LLC FOR A NON-STANDARD SPACING AND PRORATION UNIT, AN UNORTHODOX OIL WELL LOCATION, AND COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

Case No. 15994

APPLICATION OF ASCENT ENERGY, LLC FOR A NON-STANDARD SPACING AND PRORATION UNIT AND COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

Case No. 15995

APPLICATION OF ASCENT ENERGY, LLC FOR A NON-STANDARD SPACING AND PRORATION UNIT AND COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

Case No. 15996

AFFIDAVIT OF NOTICE

COUNTY OF SANTA FE)
) ss.
STATE OF NEW MEXICO)

James Bruce, being duly sworn upon his oath, deposes and states:

- 1. I am over the age of 18, and have personal knowledge of the matters stated herein.
- 2. I am an attorney for Ascent Energy, LLC.



- 3. Ascent Energy, LLC has conducted a good faith, diligent effort to find the names and correct addresses of the offset operators or working interest owners entitled to receive notice of the applications filed herein.
- 4. Notice of the applications was provided to the offsets by certified mail. Copies of the notice letter and certified return receipts are attached hereto as Attachment A.
- 5. Applicant has complied with the notice provisions of Division Rules NMAC 19.15.4.9 and 19.15.4.12.C.

James Bruce

SUBSCRIBED AND SWORN TO before me this

CONTRACT SEAL

oublic √ Mexico day of March, 2018 by James

Bruce.

My Commission Expires mmission

Notary Public

JAMES BRUCE ATTORNEY AT LAW

POST OFFICE BOX 1056 SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213 SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone) (505) 660-6612 (Cell) (505) 982-2151 (Fax)

jamesbruc@aol.com

February 2, 2018

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

To: Persons on Exhibit A:

Enclosed are copies of five applications for a non-standard oil spacing and proration unit and compulsory pooling, filed with the New Mexico Oil Conservation Division by Ascent Energy, LLC, regarding.

- 1. A Bone Spring well in the W/2E/2 of Section 18, in Township 21 South, Range 33 East, NMPM, Lea County, New Mexico;
- 2. A Bone Spring well in the E/2E/2 of Section 18, in Township 21 South, Range 33 East, NMPM, Lea County, New Mexico;
- 3. A Bone Spring well in the E/2E/2 of Section 18, in Township 21 South, Range 33 East, NMPM, Lea County, New Mexico. Applicant also requests approval of an unorthodox oil well location;
- 4. A Wolfcamp well in the W/2E/2 of Section 18, in Township 21 South, Range 33 East, NMPM, Lea County, New Mexico; and
- 5. A Wolfcamp well in the E/2E/2 of Section 18, in Township 21 South, Range 33 East, NMPM, Lea County, New Mexico

These matters are scheduled for hearing at 8:15 a.m. on Thursday, February 22, 2018, in Porter Hall at the Division's offices at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an offset owner or operator may be affected by one or more of these applications, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from contesting these matters at a later date.



A party appearing in a Division case is required by Division Rules to file a Pre-Hearing Statement no later than Thursday, February 15, 2018. This statement must be filed with the Division's Santa Fe office at the above address, and should include: The names of the party and its attorney; a concise statement of the case; the names of the witnesses the party will call to testify at the hearing; the approximate time the party will need to present its case; and identification of any procedural matters that need to be resolved prior to the hearing. The Pre-Hearing Statement must also be provided to the undersigned.

Very truly yours,

James Bruce

Attorney for Ascent Energy, LLC

EXHIBIT A

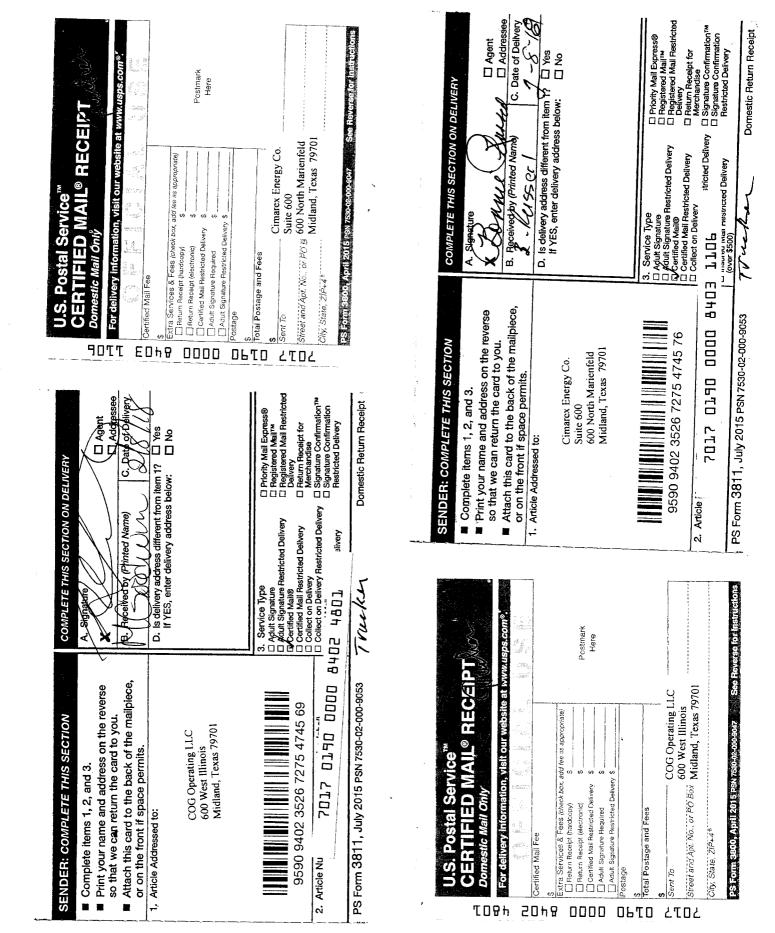
Cimarex Energy Co. Suite 600 600 North Marienfeld Midland, Texas 79701

COG Operating LLC 600 West Illinois Midland, Texas 79701

Devon Energy Production Company, L.P. 333 West Sheridan Oklahoma City, Oklahoma 73102

Advance Energy Partners Suite 950 11490 Westheimer Houston, Texas 77077

EOG Resources, Inc. 5509 Champions Drive Midland, Texas 79706



U.S. Postal Service" CERTIFIED MAIL® RECF. 17.1 Domestic Mail Only For delivery information, visit our website at www.usps.com®. For delivery information, visit our website at www.usps.com®.	EOG Resources, Inc.	Siteel and Apt. No., or PO.E. Midland, Texas 79 / Uo Sity, State, ZiP+4* PS. Form 3800, April 2015 PSN 7550-02-00-907	COMPLETE THIS SECTION ON DELIVERY	A. Signature X A B. Réceived pure finted Name) C. Date of Deli D. Is délivery address différent from item 1? Yes	
□ Agent □ Addressee □ □ □ Yes □ □ Ves	2/33/33/33/33/33/33/33/33/33/33/33/33/33	D Priority Mail Express® Pagistered Mail Registered Mail Registered Mail Restricted Delivery Delivery Restricted Restricted Restricted Restricted Restricted Polivery Signature Confirmation Restricted Delivery Restr	Domestic Return Receipt SENDER: COMPLETE THIS SECTION	■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to:	EOG Resources, Inc. 5509 Champions Drive Midland, Texas 79706
SENDER: COMPLETE THIS SECTION CompLETE THIS SECTION ON DELIVERY CompLETE THIS SECTION ON DELIVERY A. Signature A. Signature A. Signature E. Print your name and address on the reverse so that we can return the card to you. E. Agent we have an inject of the mailpiece, or on the front if space permits.	1. Article Addressed to: If YES, enter delivery address below. If YES, enter delivery address below.		Town	ATIFIED MAIL® RECEIPT stic Mail Only ivery information, visit our website at www.usps.com®	Extra Services & Fees (check box, add fee as appropriate) The turn Receipt (factopy) \$ The turn Receipt (electronic) \$ Certified Mail Restricted Delivery \$ Adult Signature Required Adult Signature Restricted Delivery \$ Adult Signature Restricted Delivery \$ There

☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted
☐ Delivery
☐ Return Receipt for
☐ Return Recipt for
☐ Reproduced Confirmation™
☐ Signature Confirmation™
☐ Signature Confirmation
☐ Signature Confirmation
☐ Restricted Delivery Agent Addressee ate of Delivery 218 % & □ □ 3. Service Type

| Adult Signature
Adult Signature Restricted Delivery			
Gortified Mail®			
Certified Mail®			
Certified Mail®			
Collect on Delivery			
Collect on Delivery		icted Delivery 4832 2. Articla Number Transfer from cardina labor 7017 0190 0000 8402 9590 9402 2691 6351 8939 24 EOG Resources, Inc. 5509 Champions Drive Midland, Texas 79706	

PS Form 3811, July 2015 PSN 7530-02-000-9053

PS Form 3800, April 2015 PSN 7590 02-000-9047

– Devon Energy Production Company, L.P. 333 West Sheridan

Total Postage and Fees

0610

Sent To

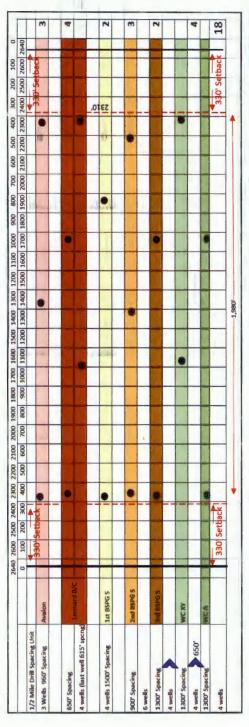
2002

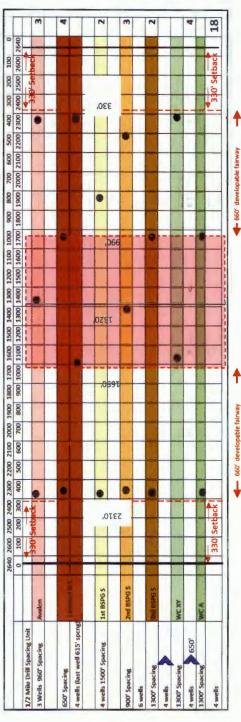
Street and Apt. No., a Oklahoma City, Oklahoma 73102

City, State, ZIP+4*

Domestic Return Receipt

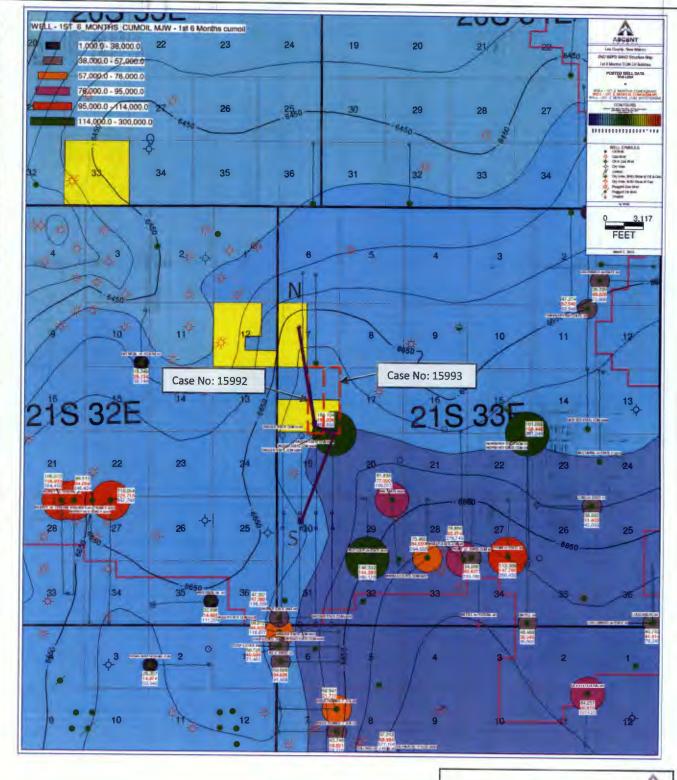
A. Signature Addressee B. Received by (Printed Name) C. Date of Delivery C. Date of Delivery B. Receivery address different from item 1? If YES, enter delivery address below:	Service Type Priority Mail Express® Adult Signature Adult Signature Adult Signature Adult Signature Adult Signature Adult Signature Resistered Mail Nectricted Delivery Delivery	m®.	*	
SENDER: COMPLETE THIS SECTION Condition Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Advance Energy Partners Suite 950 11490 Westheimer Houston, Texas 77077	2. Article Nu 7017 0190 00000000000000000000000000000	U.S. Postal Service" CERTIFIED MAIL® RECEINT Domestic Mail Only For delivery information, visit our website at www.usps.com®	Sxira Services & Fees (check box, add fee as appropriate)	V/ -> -> ->





Appointing a single operator to develop the E2 increases the number of wells to fully develop the resources and increase the ultimate. recovery of the reserves with the least amount of surface disturbance to prevent waste and protect correlative rights.







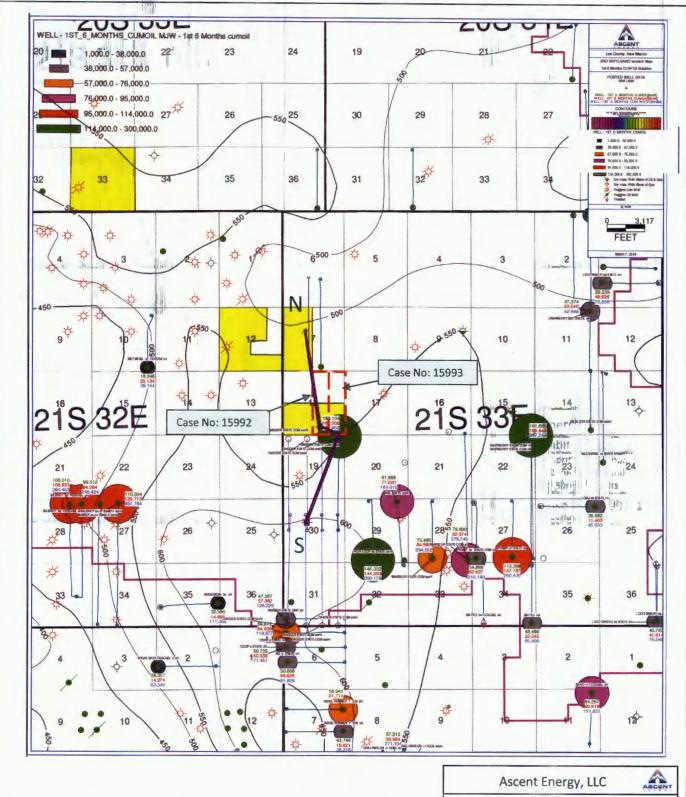


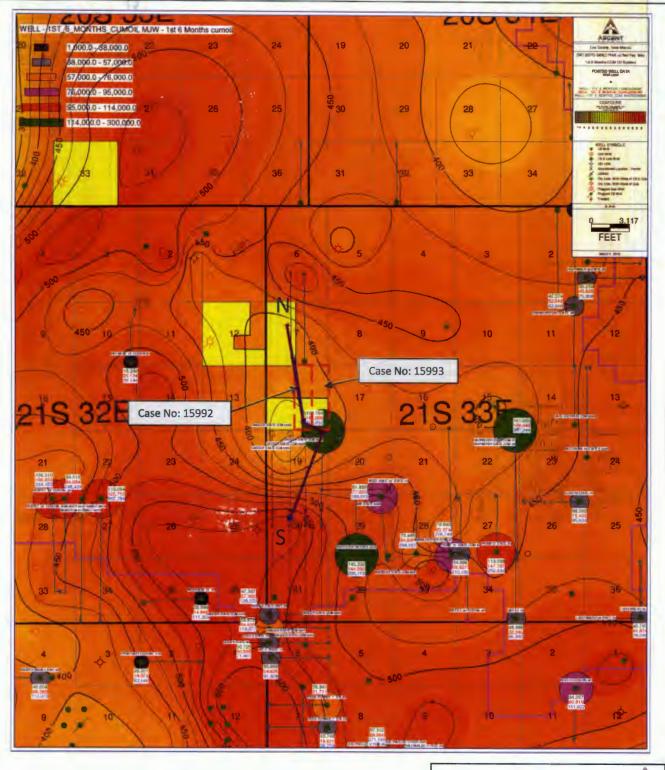
Exhibit:



2nd Bone Spring Sand Isopach Producing 2nd Bone Spring Sand Wells & **Bone Spring Permits**

CI = 50'

Case No. 15992/15993



Ascent Energy, LLC



Exhibit:

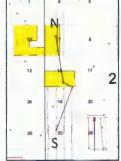
2nd Bone Spring Sand, Net Sand Producing 2nd Bone Spring Sand Wells & Bone Spring Permits

CI = 25'

Case No. 15992/15993

2nd Bone **Spring Sand** Comp Date: 4/28/2017 N S 3302543302000 CUM Oil: 232 MBO Eaves Unit 1* East Hat Mesa State 1 CUM Gas: .23 BCF "Eaves Lea Unit State 1* 30025249600000 30025274070000 CUM Water: 491 MBW 30025272220000 --Proposed Trucker Fed COM 501H & 502H -7948 -7366 *NUTECH Petrophysical log from NUTECH's Delaware Basin Regional Study

Dagger State 504H



Ascent Energy, LLC



Exhibit:

Cross Section across 2nd Bone Spring Sand

Case No. 15992/15993

		7011	מבו וכח	-				and and and	Harvel Lea Colli 2011 W Harvel Lea Colli 2011 The Police Spring Series House	2000					
Wel Label	Operator	UWI (APINum)	ownship	Range Sc	dio			(ST_6_MONTHS_CUM	1ST 6 MONTHS CUMGAS (MCF)	LIST 6 MONTHS CUM, WATER (BW)	CUM OIL (BO)	CUM GAS (MCF)	CUM WTR (BW)	Well	HOR ZONE ASCENT
HAT MESA '10' FEDERA 2H	CIMAREX ENERGY CO OF COLORADO	30025403650000	215	326	10 1	1/8/2012 4/22/2012	2012	18348	25134	39144	. 60942	- 82636	130716	32	ZND BSPG S
LIGHTNING P-38 STATE 3H	COG OPERATING LIMITED LIABILITY CORP	30025403750100	215	335	1 3	3/20/2012 6/5/2012	1012	39239	97967	30807	107133	162304	175612	EW	2ND BSPG S
	COG OPERATING LIMITED LIABILITY CORP	30025403490100	215	33€	26 7	7/22/2012 11/4/2012	2012	38282	11403	45633	113008	117448	141218	EW	ZND BSPG S
AO '6' STATE 1H	ADVANCE ENERGY PARTNERS HAT MESA LLC 30025405190000	30025405190000	225	336	-	2102/12/21 2102/5013	72012	89905	97399	91929	157290	184738	394894	EW	2ND BSPG S
COOP 6 STATE 1H	ADVANCE ENERGY PARTNERS HAT MESA LLC 30025411770000	30025411770000	225	335	9	9/3/2013 2/28/2014	2014	59872	64820	119877	155935	257141	323380	EW.	2ND BSPG S
ULLY BEN 2 STATE CO 1H	COG OPERATING LIMITED LIABILITY CORP	30025412020000	215	33.	2 12	12/19/2013 4/4/2014	1014	35320	39905	53519	97294	151997	138217	SE	2ND BSPG S
PYGMY 27' STATE COM 1H	COG OPERATING LIMITED LIABILITY CORP	30025403520100	215	336	27 3	3/9/2014 5/18/2014	2014	54896	(7979	210180	171742	228490	687857	SE	2ND BSPG S
DAGGER STATE UNIT 2H	ADVANCE ENERGY PARTNERS HAT MESA LLC 30025411780000	30025411780000	215	33£	31	1/7/2014 8/16/2014	2014	47357	57382	176229	103440	165288	273955	EW	2ND BSPG S
BATTLE 1H	MARATHON OIL PERMIAN LLC	30025413640100	215	33£	-	8/1/2014 10/30/2014	72014	48466	32345	00696	138402	105486	232384	SS	2ND BSPG S
ANDERSON '35' 3H	OXY USA WTP IP	30025417800100	215	326	35 7	4/24/2014 11/23/2014	7014	32596	14668	111309	65202	43073	242656	EW	2ND BSPG S
BILBREY 33' FEDERAL 4H	DEVON ENERGY PRODUCTION COMPANY L.P. 30025418070000	30025418070000	215	33.1	33 6	4(23/2014 12/2/2014	2014	99512	780%	248424	262077	526021	810709	SI	ZND BSPG S
BILBREY '33' FEDERAL 3H	DEVON ENERGY PRODUCTION COMPANY L.P. 30025418060000	30025418060000	215	326	33 7	7/26/2014 12/16/2014	72014	106010	106633	264453	244363	454616	73257	SN	2ND BSPG S
COOP 6 STATE 2H	ADVANCE ENERGY PAITNERS HAT MESA LLC 30025419810000	30025419810000	225	336	-		2015	50725	40539	71461	171548	273944	26092	EW	2ND BSPG S
STA 1H	OXY USA INC	30025416460000	225	336	7 8	8/7/2014 1/29/2015	2015	43746	18871	38218	130340	76570	143138	EW	2ND BSPG S
	EOG Y RESOURCES INC	30025416700000	215	33.	11 9	9/28/2014 2/3/2015	2015	47374	52540	91679	114684	175360	131145	NS	2ND BSPG S
RIDGE RUNNER '7' STA 2H	OXY USA INC	30025422690000	22	335	7 12	12/16/2014 4/8/2015	51015	58941	11711		163663	81254	15	EW	ZND BSPG 5
SPEAK EASY FEDERAL U 3H	OXY USA INC	30025422650000	225	33.6	2 12	12/29/2014 4/9/2015	2015	26357	14974	63540	65978	37869	152802	EW	ZND BSPG S
PYGMY 27 STATE 3H	COG OPERATING LIMITED LIABILITY CORP	30025420680000	215	33.6	77 77	2/12/2015 5/24/2015	2015	113388	147787	250430	287078	442397	634977	SN	ZND BSPG S
WARBLER STATE COM 002Y	COG OPERATING LIMITED LIABILITY CORP	3002542904000	215	33.	28 10	0/31/2015 5/16/2016	2016	73465	84599	294552	147978	218678	533893	NS	2ND BSPG S
	EOG RESOURCES INCORPORATED	30025415180000	215	335	6 82	9/30/2015 6/21/2016	2016	145332	144393	290178	271136	275736	449114	NS	ZND BSPG S
DINERO 36 STATE 2H	LOCO DINERO 36 STATE 2H MARSHALL & WINSTON INCORPORATED	30025418560000	215	335	36 7	3102/6/8 3102/82/1	9100	45783	41614	76040	82787	85832	260576	SE SE	2ND BSPG S
WARBLER STATE COM 4H	COG OPERATING LIMITED LIABILITY CORP	30025433100000	215	33.	16 7	9102/82/6 9102/1/1	2016	78690	92074	278749	199441	256529	567976	S.	2ND BSPG S
PBERRY STATE COM 1H	RASPBERRY STATE COM 1H COG OPERATING LIMITED LIABILITY CORP	30025431790100	215	33%	77 6	9102/1/01 9102/92/9	2016	161865	166446	397244	358945	405794	721292	SE	2ND BSPG S
LEA UNIT 35H	LEGACY RESERVES OPERATING LP	30025429850000	302	3/6	7/ 1/2	3102/61/11 3102/7016	72016	73020	99064	85593	109117	82964	183618	NS	2ND BSPG S
ABE STATE 003H	MARATHON OIL PERMIAN LLC	3002542230000	215	335	32 10	10/11/2016 2/3/2017	7101	81899	77020	169015	102621	16196	193921	NS	2ND BSPG S
BILBREY 34-27 B2NC F 001H	MEWBOURNE OIL COMPANY	30025432760000	215	325	35	9/9/2016 3/23/2017	2017	110054	125713	457784	138520	173369	533604	NS	ZND BSPG S
DAGGER STATE COM SOAH	ADVANCE ENERGY PARTNERS HAT MESA LLC 30025433020000	30025433020000	215	33.6	30 7	7/25/2016 4/28/2017	2017	183104	182006	402652	231860	230525	490924	NS	2ND BSPG S
TARINE 13 STATE C 501H	NECTARINE 13 STATE C 501H EOG RESOURCES INCORPORATED	30025437930000	215	33€	13 5,	7/102/2017 8/27/2017	-	4 months production			10999	52113	214243	S	ZND BSPG S
E BTB STATE COM 008H	DATE BTB STATE COM 008H EDG RESOURCES INCOMPORATED	30025416710000	215	33£	14 10	10/23/2014 9/5/2017	-	2 months production			31769	14792	52556	NS	2ND BSPG S
REY 34-27 82MID F 001H	BILBREY 34-27 BZMD F DOITH MEWBOURNE OIL COMPANY	30025438720000	215	375	35	8/8/2017 11/30/2017 Partial one month	/2017 Par	rtial one month			5952	5390	40434	NS.	2ND BSPG S

Ascent Energy, LLC Exhibit:

2nd Bone Spring Sand Production Data Table

Case No. 15992/15993

State of New Mexico Form C-102 1625 N French Dr , Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 Revised August 1, 2011 Energy, Minerals & Natural Resources Department District II 811 S. First St., Artesia, NM 88210 Submit one copy to appropriate OIL CONSERVATION DIVISION ie: (575) 748-1283 Fax: (575) 748-9720 District Office 1220 South St. Francis Dr. Phone: (505) 334-6178 Fax: (505) 334-6170 ☐ AMENDED REPORT Santa Fe, NM 87505 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: 505) 476-3460 Fax: (505) 476-3462 WELL LOCATION AND ACREAGE DEDICATION PLAT **Property Code** ⁵ Property Name Well Numb TRUCKER FED COM 501H OGRID No. 8 Operator Name Elevatio ASCENT ENERGY 3905 ¹⁰ Surface Location UL or lot no. Rang Feet from the Feet from th East/West lin County N 7 21 S 33 E 684 SOUTH 2.252 WEST LEA 11 Bottom Hole Location If Different From Surface Feet from the Feet fre East/West lie County 0 18 21 5 33 E 230 SOUTH 2 281 EAST LEA 15 Order No. No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the 17 OPERATOR CERTIFICATION GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 541,973.1 X= 722,404.8 LAT.= 32,487928°N LONG.= 103.612049°W GEODETIC COORDINATES
NAD 83 NME
SURFACE LOCATION
Y= 542,033.9
X= 763,586.2
LAT:= 32.488049'N
LONG.= 103.612538'W SEC. 6 I hereby certify that the inform to the best of my knowledge and belief, and that this org sed horsom hale location or has a right to drill this well as this wrsuant to a contract with an owner of such a mineral or wor FIRST TAKE POINT
NAD 83 NME
Y= 541,019.1
X= 764,233.6
LAT.= 32.485248'N
LONG.= 103.610461'W location pursuant to a voluntary pooling agreement of a country FIRST TAKE POINT NAD 27 NME. Y= 540,958.3 X= 723,052.1 LAT.= 32.485127N LONG.= 103.609972W T215 R33E order heretofore entered by the division. FEB EI Date GRID AZ.=147'27'55" HORIZ. DIST.=1,203.70' I be to blazave CORNER COORDINATES TABLE
NAD 27 NME
A - Y= 541,290.4 N, X= 722,656.5 E
B - Y= 541,296.9 N, X= 723,976.5 E
C - Y= 538,682.8 N, X= 722,674.9 E
D - Y= 538,682.0 N, X= 722,674.9 E
C - Y= 538,614.4 N, X= 722,693.5 E
F - Y= 536,014.4 N, X= 722,691.8 E
F - Y= 536,020.9 N, X= 724,014.8 E SHL 2252 334 1 at la Mint SEC. 7 SEC. 18 684 2247 "SURVEYOR CERTIFICATION CORNER COORDINATES TABLE
NAD 83 NME
A - Y= 541,351.2 N, ×= 763,838.0 E
B - Y= 541,357.7 N, ×= 765,158.0 E
C - Y= 538,713.5 N, ×= 763,585.4 E
D - Y= 538,720.9 N, ×= 765,175.1 E
E - Y= 536,075.1 N, ×= 763,7196.2 E
F - Y= 536,081.6 N, ×= 765,196.2 E PTP I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys GRID AZ.=179'59'21" HORIZ. DIST.=4,712.28' made by me or under my supervision, and that the same is true and correct to the best of my belief. CI 10 10-16-2017 LAST TAKE POINT NAD 27 NME Y= 536,346.1 X= 723,052.9 LAT= 32.472445'N LONG= 103.610071'W LAST TAKE POINT NAD 83 NME Y= 536,408.8 X= 764,234.5 LAT.= 32.472570'N LONG.= 103.610560'W Date of Survey ional Surveyor:

BOTTOM HOLE LOCATION NAD 83 NME Y= 536,300.8 X= 764,234.5 LAT.= 32.472296'N LONG.= 103.610562'W

MARK DILLON HARP 23780 Certificate Number

2280

2281

E BHL 330

BOTTOM HOLE LOCATION

NAD 27 NME Y= 536,246.1 X= 723,052.9 LAT.= 32.472174'N LONG.= 103.610073'W

Ascent Energy, LLC



Exhibit:

Trucker FED COM 501H C-102 Well Plat

Case No. 15992/15993

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
<u>District II</u>
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
<u>District III</u>
1000 Rio Brazos Rosd, Aztoc, 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 IV

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

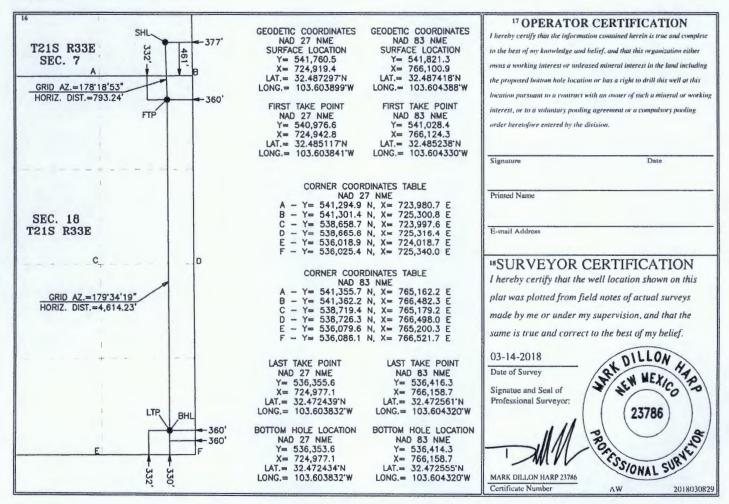
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

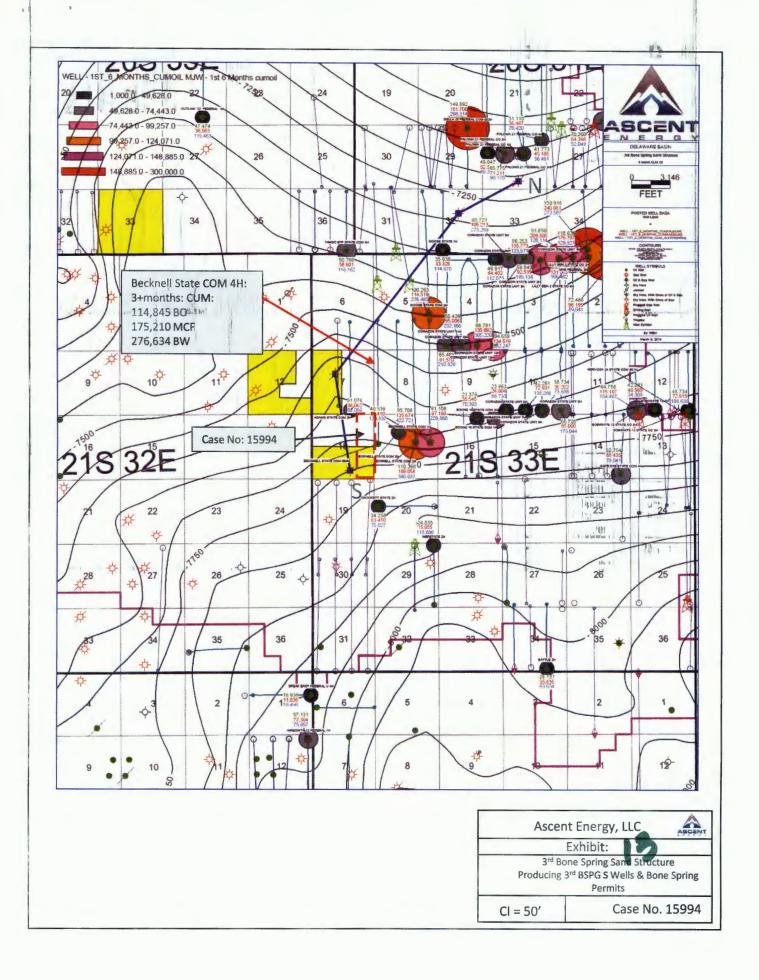
☐ AMENDED REPORT

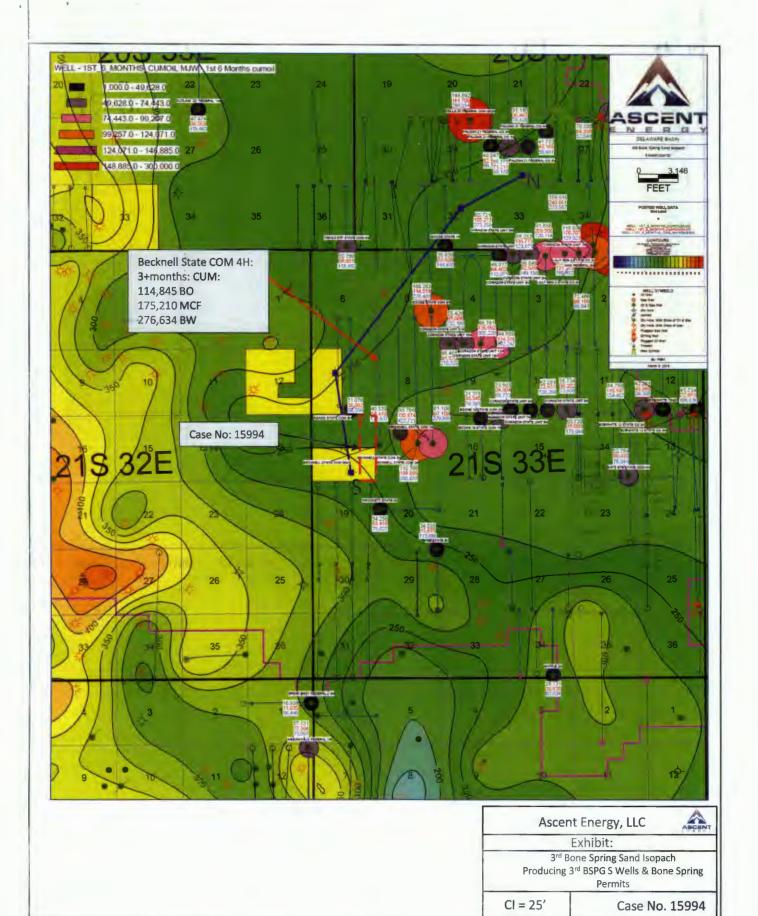
WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Number			² Pool Code			3 Pool Name		
⁴ Property	Code				5 Property Na TRUCKER FEI				Number 502H
⁷ OGRID 32583					8 Operator Na ASCENT ENI				levation ,889'
					10 Surface L	ocation			
UL or lot no. P	Section 7	Township 21 S	Range 33 E	Lot Idn	Feet from the	North/South line SOUTH	Feet from the	East/West line EAST	County LEA
			" Bott	tom Hol	e Location If	Different From	Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	18	21 S	33 E		330	SOUTH	360	EAST	LEA

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.







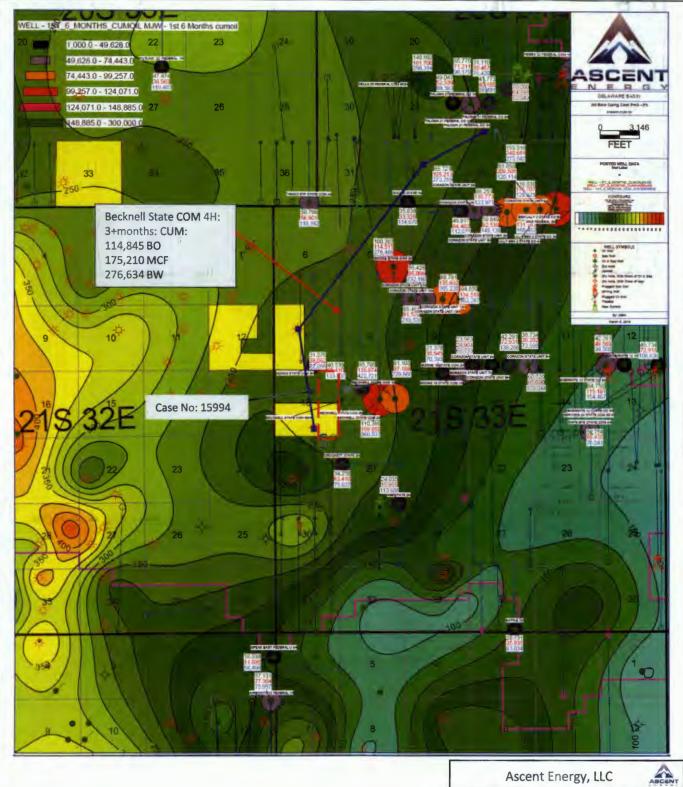


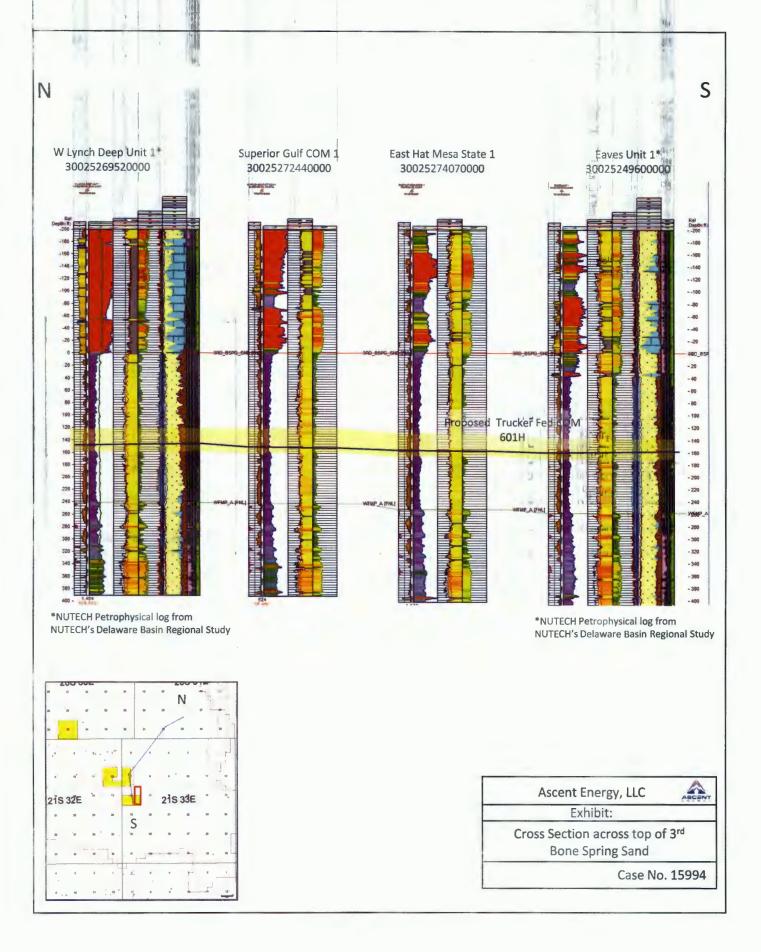


Exhibit:

3rd Bone Spring Sand PHIA >8% Net Sand Producing 3rd BSPG S Wells & Bone Spring Permits

CI = 25'

Case No. 15994



				Ę	cker Fe	у МОЭР	1H 3rd Bc	Trucker Fed COM 601H 3rd Bone Spring Sand Production Table	ŧ :						
	į							157_6		1ST_6_MONTHS _CUM_WATER		CUM GAS	CUM WTR	Well	
Т	Operator		의	Range	ection	Section SPUC DAIL COMP DAIL	OMP DATE		CUMGAS (BCF)	(MBW)	COM OIL (MBO)	(BC)	(MBW)	Orientation	HOR_ZONE_ASCENT
_	COS OPERATING LIMITED LIABILITY CORP	30025-4013-00000		33	1	-	10/2//2011	46917	64402	112075	172119	241039	423957	EW	3RD BSPG S
Т	CIMARKA ENERGI CO OF CULDINALIO	3007>40-30B0000		*	+	1107/63/01	3/4/2012	310/6	38062	95028	179223	182977	409702	£	3RD BSPG S
17	COS OPERATING LIMITED LIABILITY CORP	00107050057005		×	+	2102/01/2 2102/05/1	2103/01/6	8906	139437	66/5/	229204	563306	157798	EW	3RD BSPG S
MANSON ZO PEDENAL 3	COC OPERATION MATTER TABLE COOR	30025-406-37000		¥ ?	+	7107/71/01 7107/77/8	2102/21/01	90946	150041	89510	250808	518284	190303	¥	3RD BSPG S
Т	COG OPERATING LIMITED LIABILITY CORP	30025407010000	3 5	X 25	2 61	10/24/2017 510/2013	2/10/2013	47474	36363	27308	151156	234789	402306	£ ¥	380 8865
RAI CO 2H	CIMAREX ENERGY COMPANY	30075408190000		ž	1		3/14/2013	70505	0000	20214	194200	259622	78703	2 2	agn age
	COC OBERATING HARTED HARH ITY CORD	30035 4031 40100		1	1	2007/2017	5/15/2/2	COCOV	20007	2000	110005	244045	50/6/	ê i	SPO BSPG S
1	COS OPERATING LIMITED LIMBILITY LONG	20025-4000-2006	3	2	Т	2102//17	5102/62/6	63698	131/13	108462	71806/	344945	426491	2	SKU BSPG S
	COC ODEBATING LANTED LAND	30025408040000	1	Ž,	9,	<u> </u>	3/28/2013	132918	136669	51999	320503	516629	138848	SN	3RD 8SPG S
Т	COS OPENATING LIMITED LIABILITY CORP.	2002270729000		X ?	+	\neg	5102/21/6	150517	706767	144234	175117	419470	/07967	ŝ	3KU BSPG S
_	CUG OPERALING LIMITED LIABILITY LORP	30025-407320000		*	+	-	6/1/2013	39933	68229	70205	107609	224132	154816	EW	3RD BSPG S
ATE UNIT 8H	COG OPERATING LIMITED LIABILITY CORP	30025409500000		3	_	4/6/2013	6/23/2013	38734	38202	73598	119325	129477	205628	NS.	3RD BSPG S
	CIMAREX ENERGY COMPANY	30025407500000		₹	7		7/23/2013	95749	130031	29376	233244	343595	79109	NS	3RD BSPG S
T	CIMAREX ENERGY COMPANY	30025408250000		ž	\dashv	6/6/2013	8/13/2013	78457	143697	21336	227009	391153	80163	NS	3RD BSPG S
COM 2H	COG OPERATING LIMITED LIABILITY CORP	30025410490100		336	1		8/24/2013	21378	35545	70393	51615	99251	184804	¥	3RD BSPG S
	COG OPERATING LIMITED LIABILITY CORP	30025411060000		₹	32	6/5/2013	8/31/2013	35838	33326	114670	142188	187158	509911	NS	3RD 8SPG S
	COG OPERATING LIMITED LIABILITY CORP	30025410800100		33£	20 5	5/19/2013 9/11/2013	9/11/2013	34258	63410	75027	100745	216727	223813	EW	3RD BSPG S
LAGUNA 23 FEDERAL CO 1H	CHISHOLM ENERGY OPERATING LLC	30025407420000		346	23 8	8/18/2013	10/26/2013	88766	81634	29562	201771	208157	80549	NS	3RD BSPG S
CORAZON STATE UNIT 6H	COG OPERATING LIMITED LIABILITY CORP	30025409480000		33£	10 8	8/21/2013 10/27/2013	10/27/2013	53963	24904	68733	84674	106512	210686	S¥.	3RD BSPG S
LEA SOUTH 25 FEDERAL 5H	CHISHOLM ENERGY OPERATING LLC	30025413670100	502	34.	25 1	11/6/2013 12/19/2013	12/19/2013	107245	129846	16190	243608	354106	40966	NS	3RD BSPG S
LILLY BEN 2 STATE CO 3H	COG OPERATING LIMITED LIABILITY CORP	30025412030000		33£	2 9	9/20/2013 12/31/2013	12/31/2013	118638	176707	129921	317722	547240	361879	S	3RD BSPG S
CORAZON STATE UNIT 3H	COG OPERATING LIMITED LIABILITY CORP	30025409460000	215	336	3 1	11/5/2013	2/6/2014	59849	92539	149138	154908	219076	349297	Ş	3RD BSPG S
HANSON '26' FEDERAL 1H	CIMAREX ENERGY COMPANY	30025403270000		346	26 1	12/7/2013	2/10/2014	46018	50917	30380	170339	251993	96962	NS.	3RD BSPG S
LIGHTNING P-38 STATE 6H	COG OPERATING LIMITED LIABILITY CORP	30025407950000	215	33£	1	1/1/2014 3/15/2014	3/15/2014	14073	29174	21510	52311	127777	78211	E	3RD BSPG S
LAGUNA 23 FEDERAL CO 2H	CHISHOLM ENERGY OPERATING LLC	30025406970000		346	23 1	1/30/2014 4/1/2014	4/1/2014	123007	128516	34404	26252	308735	90939	NS	3RD BSPG S
BECKNELL STATE COM 3H	COG OPERATING LIMITED LIABILITY CORP	30025412990000	215	33£	5 1	12/31/2013 4/16/2014	4/16/2014	40539	58410	133837	107799	163875	383122	NS	3RD BSPG S
_	COG OPERATING LIMITED LIABILITY CORP	30025409450000		33€	3 1	1/25/2014	4/27/2014	86253	135773	123971	238397	386755	361909	NS.	3RD BSPG S
\rightarrow	COG OPERATING LIMITED LIMBILITY CORP	30025412040000		33£	2 10	10/24/2013	5/5/2014	91858	209505	120114	264836	531877	309519	NS	3RD BSPG S
Ξ	CIMAREX ENERGY COMPANY	30025416440000		34.	35 4		7/7/2014	78448	135970	20318	195767	401793	57676	NS	3RD BSPG S
Т	COG OPERATING LIMITED LIABILITY CORP	30025409510000		33£	10	3/31/2014	7/14/2014	60720	85000	179044	155093	282451	422254	RS	3RD BSPG S
_	COG OPERATING LIMITED LIABILITY CORP	30025409550000	-	335	_	3/6/2014	1/17/2014	94659	134519	362247	305507	475017	1036876	NS	3RD BSPG S
7	COG OPERATING LIMITED LIABILITY CORP	30025409490000	- 1	33	10	4/24/2014 9/11/2014	9/11/2014	42291	72931	138266	132516	253897	411043	NS	3RD BSPG S
\neg	COG OPERATING LIMITED LIABILITY CORP	30025409470000	- 1	33£	9	4/8/2014 1	10/11/2014	65721	105213	273259	318163	902669	1047205	NS	3RD BSPG S
7	EOG Y RESOURCES INC	30025415620000		33£	36	5/10/2014 10/22/2014	10/22/2014	20766	58601	118162	211459	322436	500143	NS	3RD BSPG S
I	COG OPERATING LIMITED LIABILITY CORP	30025409530000		335			11/4/2014	55426	90056	232180	274397	447791	952666	SN	3RD BSPG S
ATE CO SH	COG OPERATING LIMITED LIABILITY CORP	30025419150000	ĺ	33.	+	10/4/2014	1/6/2015	72486	96195	89041	184201	334211	221583	NS	3RD BSPG S
T	MARATHON OIL PERMIAN LLC	30025420660100		33	\dashv	8/10/2014 1/17/2015	1/17/2015	24035	15955	113886	73476	85687	239445	£	3RD BSPG S
Т	EOG RESOURCES INCORPORATED	30025413770000		336	_	8/26/2014	1/29/2015	52754	88435	78041	174339	349755	182546	NS	3RD BSPG S
BOOME 16 STATE COM 1H	COG OPERALING LIMITED LIABILITY CORP	30025417000000	Siz	336		10/11/2014 2/13/2015	2/13/2015	61108	97188	229860	145503	239407	417360	NS	3RD BSPG S
T	COS OPERATING LIMITED LIABILITY CORP	30035400540000	316	335	4 4	11/4/2014 2/2//2015	2102/12/2	65466	915/0	205730	314225	536436	1041244	2	3KD BSPG S
1	FASKEN OIL AND RANCH ITD	30075419950000	Š	34	+	2107/1/5 4107/2/11	3/1/2015	31110	350651	76470	215174	324805	A65025	2 4	300 800 6
	OXY USA INC	30025422660000	225	32E	T	12/26/2014	4/6/2015	16938	11035	58496	37692	25658	112237	2	3RD BSPGS
BOBWHITE 12 STATE CO 3H	COG OPERATING LIMITED LIABILITY CORP	30025411370000	215	33£	12 1		4/14/2015	45734	72915	106636	106573	201594	208991	S¥	3RD BSPG S
	COG OPERATING LIMITED LIABILITY CORP	30025412980000	215	33£	\vdash	9/26/2014	5/9/2015	95706	135674	422721	367914	843954	1292752	SE SE	3RD BSPG S
BECKNELL STATE COM 2H	COG OPERATING LIMITED LIABILITY CORP	30025413230000	215	33£	5 11	12/24/2014 5/19/2015	5/19/2015	110366	189058	380037	373560	855824	1280643	NS	3RD BSPG S
-T	MARATHON OIL PERMIAN LLC	30025420090100	215	33£	77	2/8/2015	7/1/2015	28131	35835	63034	73669	112418	151190	NS	3RD BSPG S
т.	COG OPERATING LIMITED LIABILITY CORP	30025410920000	212	33£	_	$\overline{}$	7/22/2015	64758	115197	154467	147752	266391	296382	NS	3RD BSPG S
5	COG OPERATING LIMITED LIABILITY CORP	30025420370000	ž	ž	1		8/7/2015	93014	111509	80410	249033	346708	137269	NS	3RD BSPG S
М 2Н	COG OPERATING LIMITED LIABILITY CORP	30025412010000	28	×	\neg	1/3/2016	9/5/2016	100263	114519	276489	377130	439297	819463	£	3RD BSPG S
MAS FEDERAL 3H	COG OPERATING LIMITED LIABILITY CORP	30025429500000	ž	ž	7	11/29/2015 11/18/2016	1/18/2016	159916	240661	273587	273703	402103	383180	NS	3RD BSPG S
DELLA 29 FEDERAL COM 602H	DELLA 29 FEDERAL COM 602HEOG RESOURCES INCORPORATED	30025430540000	ž	¥	-	7/14/2016 12/6/2016	12/6/2016	149892	161700	298314	236068	250918	453543	NS	3RD BSPG S
NERVOSA 24 STATE COM 601	NERVOSA 24 STATE COM 601 EOG RESOURCES INCORPORATED	30025436000000	215	33£	+	4/20/2017 1/22/2017	7/22/2017	73984	111306	403045	82807	124276	436041	N.	3RD BSPG S
BECKNELL STATE COM WHI	BECKNELL STATE COM DOMH COG OPERATING LIMITED LIABILITY CORP	30025438560000	215	33£	5	7/2/2017 10/14/2017	10/14/2017	3 + Months Prod			114846	175210	276634	£	3RD BSPG S

Ascent Energy, LLC Exhibit:

3rd Bone spring Sand Horizontal Production Data Table

Case No. 15994

District 1
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 Road, 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

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

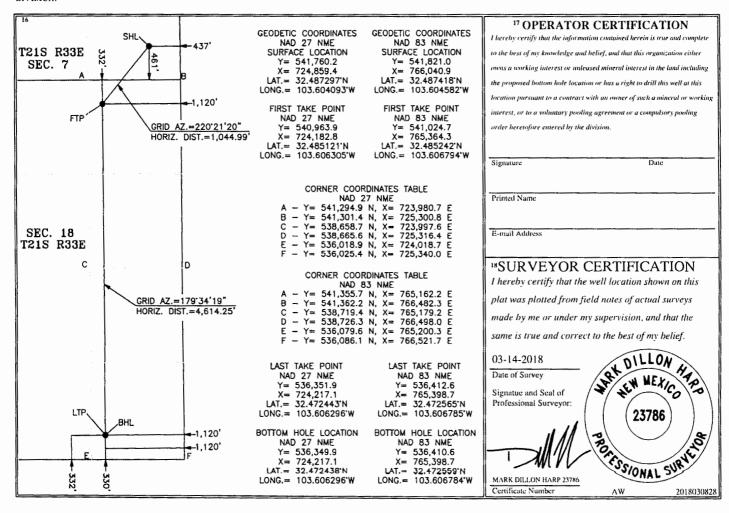
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

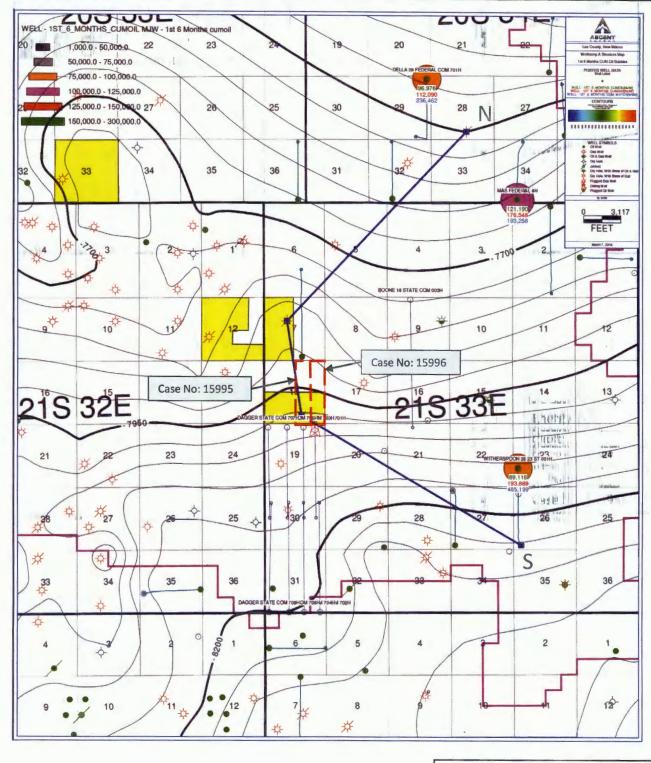
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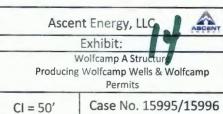
WELL LOCATION AND ACREAGE DEDICATION PLAT

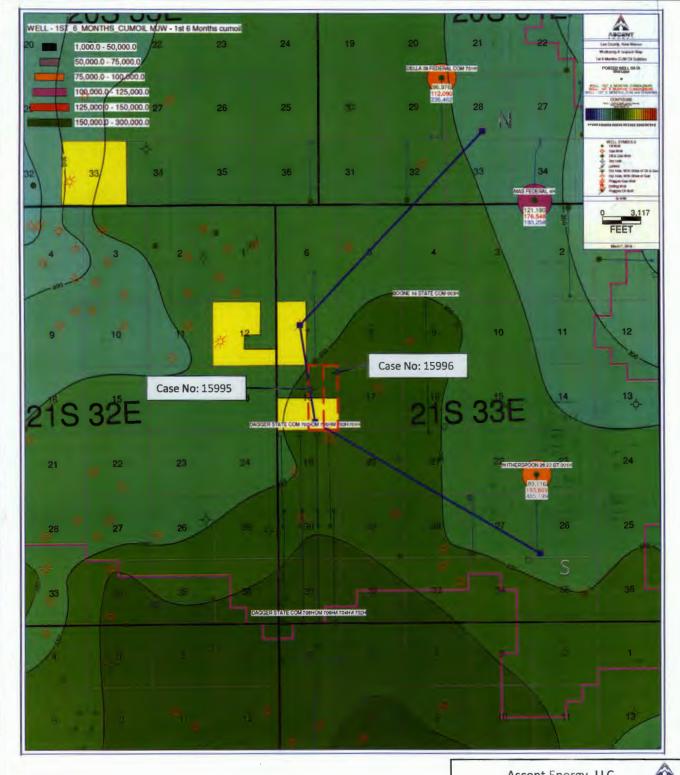
1	API Number				² Pool Co	ode			³ Pool Na	me		
⁴ Property (Code				- 	⁵ Pr	operty Na	ame			6 1	Well Number
						TRUCI	KER FE	D COM				601H
7 OGRID	No.					8 OI	perator N	ame				9 Elevation
325830)					ASCE	ENT EN	ERGY				3,889'
						10 Sur	face L	ocation				
UL or lot no.	Section	Township		Range	Lot Id	in Feet fi	rom the	North/South line	Feet from the	Eas	/West line	County
P	7	21 S		33 E		461	ı	SOUTH	437	EA	ST	LEA
				11 Bo	ttom H	ole Locat	ion If	Different Fron	n Surface			
UL or lot no.	Section	Township	,	Range	Lot Io	in Feet fi	rom the	North/South line	Feet from the	Eas	t/West line	County
P	18	21 S		33 E		330		SOUTH	1,120	EA	ST	LEA
12 Dedicated Acres	¹³ Joint o	r Infill	14 Conso	olidation	Code 15	Order No.						

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.









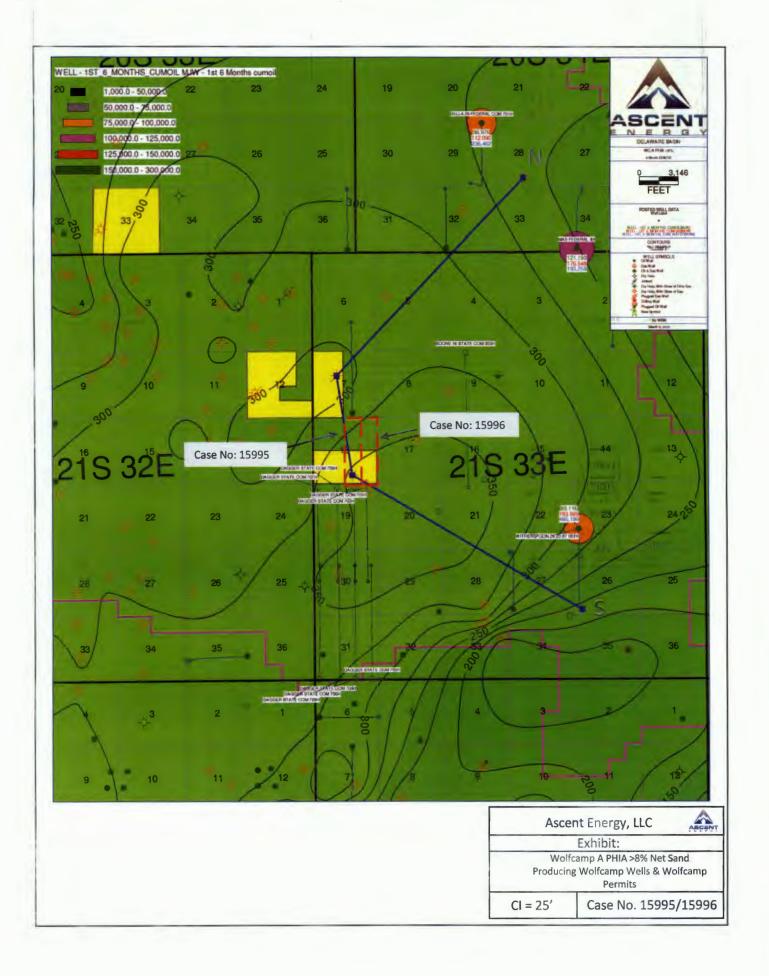




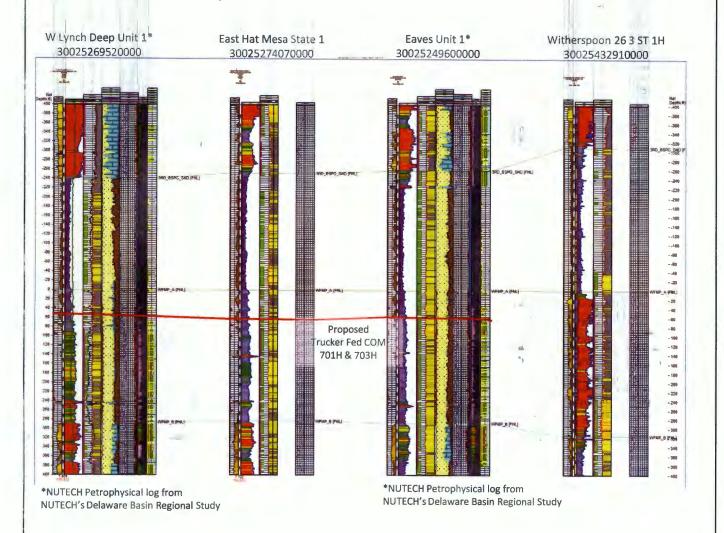
Wolfcamp A Isopach Producing Wolfcamp Wells & Wolfcamp Permits

CI = 25'

Case No. 15995/15996



N





Ascent Energy, LLC Exhibit:

Cross Section across top of Wolfcamp

Case No. 15995/15996

	E	Γ	Γ	Π	Γ	Τ	Τ	Г	Т		Т	Т	Т		-
	HOR ZONE ASCE	WC X Sand	WC X Sand	WC A Lower								THE COLUMN TWO IS NOT THE PERSON OF THE PERS		Martin Martin Villa Joseph Barrell	
	Well Orientation	£	ž	£											
	UMWTR (BW)	340197	278729	749630											***************************************
	CUMGAS (MCF)C	160677	272859	332686										-	
	CUMOIL (BO)	140414	184241	147921											Contract of the last of the la
)e	ST 6 MONTHS CUM WATER (BW)	236462	193258	30025432910100 215 33E 26 7/26/2016 11/9/2016 89116 133869 485199 147921 332686 748630 NS WCA.Lower		AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLU	ere jedne kandelen nick bestelle gebre der de staten skale kandelen sinne er gre e stagen andelen en kale							Andrew or and the control of the con	
Trucker Fed COM 701H & Trucker Fed COM 703H Wolfcamp Production Data Table	1ST 6 MONTHS CUM GAS (MCF) 15	112090	176548	193869											
S COM 701H & Trucker Fed COM	ST 6 MONTHS CUM OIL (BO)	96976	121190	89116											
Trucker Fe	COMP_DATE 1	12/6/2016	1/30/2017	11/9/2016											
	SPUD_DATE	6/19/2016	12/1/2016	7/26/2016											
	Section	62	3	92											
	p Range	₹	346	33£		 	_	 _	_	_					
	Townshi	\$2	202	215											
	UW! (APINum)	30025430530000	30025434820000	30025432910100											
	perator	EGG RESOURCES INCORPORATED 30025430530000 205 34E 29 6/19/2016 12/6/2016	OG OPERATING LIMITED LIABILITY CORP	MAAREX ENERGY COMPANY											

Exhibit:

Wolfcamp Horizontal Production Data Table Case No. 15995/15996

District 1
1625 N. French Dr., Hohbs, NM 88240
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District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road Artes, NM 87410

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

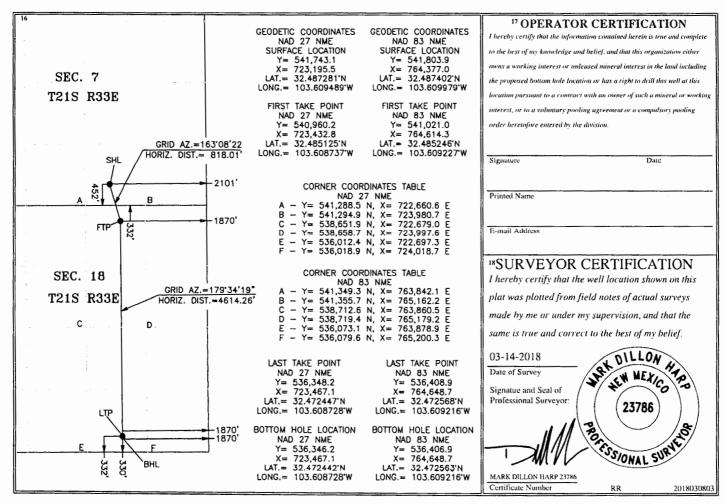
Form C-102
Revised August 1, 2011
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WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Numbe	r		² Pool Code			³ Pool Name	e	
⁴ Property	Code				⁵ Property N			6 W	/ell Number
					TRUCKER FE	ED COM			701H
7 OGRID	No.				8 Operator N	lame		9	Elevation
32583	0				ASCENT EN	IERGY			3899'
					¹⁰ Surface L	Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	7	21 S	33 E		452	SOUTH	2,101	EAST	LEA
			п Во	ttom Hol	e Location If	Different From	Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	18	21 S	33 E		330	SOUTH	1,870	EAST	LEA
12 Dedicated Acre	es 13 Joint o	r Infill 14 C	onsolidation	Code 15 Or	der No.				

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



<u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

District III

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

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

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State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

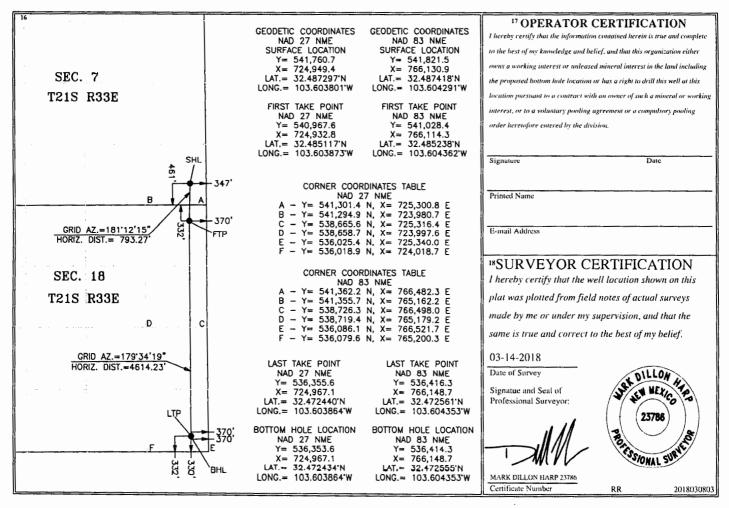
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1,	API Number	r		² Pool	Code			³ Pool Na	me		
⁴ Property C	ode		<u></u>		5 Pı	operty N	ame			61	Well Number
					TRUC	KER FE	ED COM				703H
7 OGRID N	lo.				8 O	perator N	lame				⁹ Elevation
325830)				ASCI	ENT EN	ERGY		-		3899'
					10 Sur	face L	Location				
UL or lot no.	Section	Township	Rang	Lot	Idn Feet f	rom the	North/South line	Feet from the	East	t/West line	County
Р	7	21 S	33 E		46	1	SOUTH	347	EAS	ST	LEA
			"B	ottom	Hole Locat	ion If	Different From	n Surface			
UL or lot no.	Section	Township	Rang	Lot	Idn Feet f	rom the	North/South line	Feet from the	East	t/West line	County
P	18	21 S	33 E		330)	SOUTH	370	EAS	ST	LEA
12 Dedicated Acres	13 Joint o	r Infill	14 Consolidatio	Code	15 Order No.						

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

ORDER NO. R-13165

APPLICATION OF CIMAREX ENERGY CO. FOR A NON-STANDARD SPACING UNIT AND COMPULSORY POOLING, CHAVES COUNTY, NEW MEXICO.

CASE NO. 14368

APPLICATION OF CIMAREX ENERGY CO. FOR A NON-STANDARD SPACING UNIT AND COMPULSORY POOLING, CHAVES COUNTY, NEW MEXICO.

CASE NO. 14369

APPLICATION OF CIMAREX ENERGY CO. FOR A NON-STANDARD SPACING UNIT AND COMPULSORY POOLING, CHAVES COUNTY, NEW MEXICO.

CASE NO. 14370

APPLICATION OF CIMAREX ENERGY CO. FOR A NON-STANDARD SPACING UNIT AND COMPULSORY POOLING, CHAVES COUNTY, NEW MEXICO.

CASE NO. 14372

ORDER OF THE DIVISION

BY THE DIVISION:

This case came on for hearing on various parties' Motions to Dismiss at 8:15 a.m. on September 3, 2009, at Santa Fe, New Mexico, before Examiner Terry Warnell.



Cases 14368,14369, 14370 and 14372 Order No. R-13165 Page 2 of 4

NOW, on this 15th day of September, 2009, the Division Director, having considered the testimony, the record and the recommendations of the Examiner,

FINDS THAT:

- (1) Due notice has been given, and the Division has jurisdiction of the subject matter of these cases.
- (2) Because all of the Motions to Dismiss present the same issue, a consolidated hearing was held on these motions, and one order is being issued ruling on the motions in all of the cases. However, the cases remain separate and will be heard separately unless the Division subsequently determines otherwise.
- (3) Fuel Products, Inc., Pear Resources and Hyde Oil and Gas Corporation, respondents in Cases 14368, 14369 and 14370, and McTex Supply Company, a respondent in Case No. 14372, (herein collectively called Movants) filed motions to dismiss the application in these cases. Movants contend that no valid well proposals have been submitted for their consideration because: (a) the well proposals do not contain specific footage locations; (b) the applicant did not furnish a proposed form of joint operating agreement with its well proposal; and (c) the proposals in the separate cases, collectively, constitute a multi-well drilling program, and applicant's correspondence indicates uncertainty as to whether it will actually drill all of the proposed wells.
- (4) With respect to the omission of a proposed form of joint operating agreement, Movants cite Division Order No. R-13155 in which the Division dismissed a compulsory pooling application and ordered that a well proposal including a proposed form of joint operating agreement be furnished prior to re-filing.
- (5) Because past Division practice has not been entirely consistent, and because some language in Order No. R-13155 was not intended to apply to all cases, the Division takes this opportunity to clarify the requirements that it will ordinarily apply in compulsory pooling cases as follows:
 - (a) At least thirty days prior to filing a compulsory pooling application, in the absence of extenuating circumstances, an applicant should send to locatable parties it intends to ask the Division to pool a well proposal identifying the proposed depth and location and target formation, together with a proposed Authorization for Expenditures (AFE) for the well. The proposal should specify the footages from section lines of the intended location, and, in the case of a directional well, of the intended point of penetration and bottomhole location. The Division understands these requirements to be comparable to the proposal requirements included in forms operating agreements generally used in the industry.
 - (b) Although exact footage locations for the proposed well should be specified in the well proposal, the exact footage locations need not necessarily be

specified in the application filed with the Division or in formal notices of hearing. These documents (the application and formal hearing notices) establish the Division's jurisdiction, and, if an exact location for the well is specified in such documents, any modification may require new notices and a further hearing. There may be perfectly legitimate reasons for varying the well location at the hearing, such as federal or private surface owner requirements. If a more generalized location is specified in the application and legal notices, and it becomes necessary to change the location prior to the hearing, reasons for such variation can be explained at the hearing and approved by the Division in its order, without the necessity of further proceedings.

- (c) A proposed form of joint operating agreement should not be required in every case but should be furnished with reasonable promptness if requested.
- (d) The issue of compliance with the more subjective requirement the Division has customarily recognized for good faith negotiation is better examined in these cases, and in most cases, at the compulsory pooling hearing, based upon a full evidentiary record, rather than upon a preliminary motion to dismiss.
- (6) In these cases, unlike Cases 14365 and 14366, which were the subject of Order No. R-13155, Movants have received well proposals and AFEs though these proposals were deficient in not identifying the footage locations of the wells. These cases have been re-set for hearing on a date more than thirty days from the date of this Order to allow applicant to furnish Movants with a more specific proposal and with other documents Movants have requested and to afford the parties time for further negotiations. Accordingly the Division concludes that it is not necessary to dismiss these cases and require that they be re-filed in order for the applicant to proceed. If additional time proves necessary for good faith negotiations, Movants may request a further continuance.

IT IS THEREFORE ORDERED THAT:

- (1) Movants Motions to Dismiss are hereby overruled. As announced at the motion hearing, these cases are continued until October 15, 2009.
- (2) Applicant will furnish Movants with documents complying with Finding Paragraphs 5(b) and (c) at least 30 days prior to the hearings.
- (3) The issue of whether or not adequate good faith negotiation has occurred may be further considered at the hearings.
- (4) Jurisdiction of these cases is retained for the entry of such further orders as the Division may deem necessary.

Cases 14368,14369, 14370 and 14372 Order No. R-13165 Page 4 of 4

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

SEAL

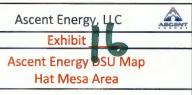
STATE OF NEW MEXICO OIL CONSERVATION DIVISION

MARK E. FESMIRE, P.E.

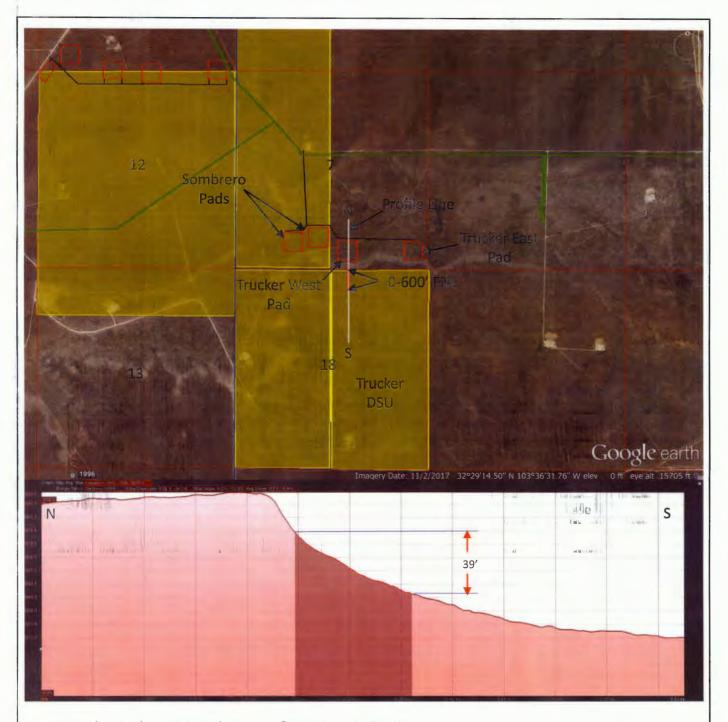
Director



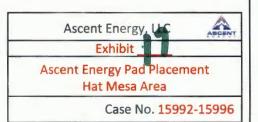
- Multi-Well Pad
- Road & Infrastructure Path
- Permitted 4-Stream Gathering System (Construction to be completed 3Q 2018)



Case No. 15992-15996



- Trucker pads positioned on top of Hat Mesa in Section 7
- Creates efficiencies for infrastructure with Sombrero pads to the west
- · North portion of section 18 too steep build a pad
- Received on-site approval from BLM for Trucker pad locations on 3/5/18
- Agreement in principle with Cimarex for pad locations on 3/8/18



ESTIMATE OF COSTS AND AUTHORIZATION FOR EXPENDITURE (AFE)

		Trucker Fed COM #501H	BUD YEAR		DATE SUPPLEMENT NO	February 8, 2018	
AFE NO		NM100004 Hat Mesa REGION	CATEGORY Delaware		SUPPLEMENT NO. LEGAL:	21S 33E	
OPERAT	TOR	Ascent Energy, LLC WELL NO.	501H		W.I.		
OBJECT		2nd Bone Spring STATE	NM		MD/TVD	+/-16,600'/11,150'	
		OJECT START DATE: 2Q2018 Drill a 5100' lateral in the 2nd Bone Spring and frac with 33 s	tages, Assumes	4 string des	ion.		
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			.,		
	The Later	THE PARTY OF THE P					
AC	CT.	INTANGIBLE DRILLING COSTS DESCRIPTION		l mate	DEVHOLE		
8305	101	Location Cleanup & Damages	Rate	Units	\$145,000		SOTAL WELL COST \$145,900
8305	102	Rig Move - MIRU, RDMO			\$100,000	of the state of the state of	(60,000
8305	103	Rig Contractor-Daywork/FT Rig Contractor-Turnkey	\$20,000	25	\$500,000		500,000
8305	105	Power & Fuel			\$110,000	the second of	110,000
8305	106	Drill Fluids & Chemicals			\$85,000		85,000
8305	107	Bits, Reamer, Stabilizers Cement & Cementing Services	-	-	\$85,000 \$165,000		85,000 165,000
8305	109	Mud Logging			\$44,000		44,000
8305 8305	110	Open Hole Logging Csg Crews & Tools		-	\$30,000 \$70,000	Paragon I I II - 19	30,000 70,000
8305	112	Directional Tools & Service			\$210,000	Carlo Carlo Carlo	210,000
8305	114	Form Eval - Well Testing DST - Coring, Sampling Tubular Inspection			\$20,000		20,000
8305	116	Equipment Rentals			\$300,000	THE RESERVE	300,000
8305	117	Contract Labor & Services			\$100,000		100,000
8305	118	Wellsite Consultants Company Supervison & Labor	\$ 2,000	50	\$100,000		100,000
8305	120	Transportation			\$15,000	F2 -73-121 1 2.7	15,000
8305 8305	121	Mud,Cuttings & Water Disposal Insurance	1.9243	16,600	\$50,000 \$31,943	200	50,000 31,943
8305	122	Overhead	1.9243	10,000	\$25,000	ALC: OE MINE	25,000
8305	124	Water & Water Well			\$25,000	91.3-	215,000
8305 8305	125	Unanticipated MjrExp (Fishing) Legal	-	-	\$50,000		50,000
8305	127	Outside Operated Other				Algeria de de la comercia	0
8305	128	Permits Environmental & Safety			\$10,000 \$20,000		±0,000 20,000
8305	130	Plugging			320,000		0
		SUBTOTAL			\$2,290,943		\$2,290,943
8305	199	CONTINGENCY (%) 10.00% SUB-TOTAL INTANGIBLE DRILLING COSTS			\$2,520,038		229,094 \$2,520,038
17/20	(M) 18	INTANGIBLE COMPLETION COSTS		31 314.	\$2,320,030		\$2,520,036
AC		DESCRIPTION	Rate	Units		COMPLETION	TOTAL WELL COST
				-	THE RESIDENCE OF THE PARTY OF T		Superconcerned united Section Service out
8306	201	Location & Cleanup			La company of the second	\$10,000	\$10,000
8306	202	Power & Fuel			er send	10,000	10,000
8306 8306	202	Power & Fuel Compl Fluids & Chemicals					10,000 45,000
8306 8306 8306 8306	202 203 204 205	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs				10,000 45,000	10,000 45,000 0
8306 8306 8306 8306 8306	202 203 204 205 206	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs				10,000	10,000 45,000 0 0 159,000
8306 8306 8306 8306	202 203 204 205	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs				10,000 45,000	10,000 45,000 0
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac				10,000 45,000	10,000 45,000 0 0 159,000 0 1,900,000
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation				10,000 45,000 159,000	10,000 45,000 0 0 159,000 0
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211 212	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals				10,000 45,000 159,000	10,000 45,000 0 0 159,000 0 1,900,000
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211 212 213	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services				10,000 45,000 159,000 1,900,000	10,000 45,000 0 0 159,000 0 1,900,000 0 1,900,000 0 1,65,000
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211 212	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant	3 -	0		10,000 45,000 159,000	10,000 45,000 0 0 159,000 0 0 1,900,000
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211 212 213 214 215 216	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation	3 -	0		10,000 45,000 159,000 1,900,000 165,000 43,500 20,000	10,000 45,000 0 159,000 0 1,900,000 0 1,900,000 0 43,500 0 2,000
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal	\$ -	0		10,000 45,000 159,000 1,900,000 165,000 43,500	10,000 45,000 0 159,000 0 1,900,000 0 1,900,000 0 43,500 20,000 15,000
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Nud Cuttings & Water Disposal Insurance Dverhead	\$	0		10,000 45,000 159,000 1,900,000 165,000 43,500 20,000 15,000	10,000 45,000 0 159,000 0 1,990,000 0 1,990,000 0 1,65,000 0 20,000 0 15,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well	\$ -	0		10,000 45,000 159,000 1,900,000 165,000 43,500 20,000	10,000 45,000 0 159,000 0 190,000 1,900,000 0 1,55,000 0 43,500 0 20,000 15,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 220 221	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cernent & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services	3 -	0		10,000 45,000 159,000 1,900,000 165,000 43,500 20,000 15,000 313,500 63,500	10,000 45,000 0 159,000 1,900,000 0 1,900,000 0 1,65,000 0 20,000 15,000 0 313,500 0 313,500
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 221 222 223	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials	3 -	0		10,000 45,000 159,000 1,900,000 165,000 43,500 20,000 15,000 313,500 63,500 35,000	10,000 45,000 0 159,000 0 1,900,000 1,900,000 0 43,500 0 20,000 15,000 0 313,500 0 63,500
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing	\$ -	0		10,000 45,000 159,000 1,900,000 43,500 20,000 15,000 313,500 335,000 35,000	10,000 45,000 0 159,000 0 1,990,000 0 1,990,000 0 1,65,000 0 20,000 0 15,000 0 313,500 0 35,000 75,500
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 205 207 208 209 210 211 212 213 214 215 216 217 218 219 220 222 223 224 225 226	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Miss Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs	\$ -	0	Manual Strain Control of the Strain S	10,000 45,000 159,000 1,900,000 165,000 43,500 20,000 15,000 313,500 63,500 35,000	10,000 45,000 0 159,000 0 1,900,000 0 1,900,000 0 43,500 0 20,000 0 313,500 0 63,500 35,500 75,500 0 75,500 0 15,000
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8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 205 207 208 209 210 211 212 213 214 215 216 217 218 219 220 222 223 224 225 226	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Nud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Flugging Completion Rig	\$ -	0	Manual Strain Control of the Strain S	10,000 45,000 159,000 1,900,000 165,000 43,500 20,000 15,000 313,500 35,000 35,000 5,000	10,000 45,000 0 159,000 0 1,990,000 0 0 1,990,000 0 1,000,000 0 0 1,000,000 0 0 0 0
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 227 220 221 222 222 223 224 225 227 228	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cernent & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig Subtotal				10,000 45,000 159,000 1,900,000 165,000 43,500 20,000 15,000 313,500 63,500 35,000 76,500 5,000	10,000 45,000 0 159,000 0 1,900,000 0 1,900,000 0 20,000 155,000 0 313,500 0 313,500 0 35,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 227 220 221 222 222 223 224 225 227 228	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cernent & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig Subtotal				10,000 45,000 159,000 1,900,000 165,000 43,500 20,000 15,000 313,500 63,500 35,000 76,500 5,000	10,000 45,000 0 159,000 0 1,990,000 0 1,990,000 0 1,65,000 0 15,000 0 15,000 0 15,000 0 15,000 0 15,000 0 0 10,000 0 0 0 0 0 0 0 0 0 0 0 0
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 227 220 221 222 222 223 224 225 227 228	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Loggling & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Tasting Legal & Permits Environmental & Safety Costs Pluggling Completion Rig SUBTOTAL CONTINERNY (%) 5.00% SUB-TOTAL INTANGIBLE COMPLETION COSTS				10,000 45,000 159,000 1,900,000 165,000 43,500 20,000 15,000 313,500 35,000 76,500 5,000 30,000 \$2,891,000 144,550 \$3,035,550	10,000 45,000 0 159,000 0 1,990,000 0 1,990,000 0 1,990,000 0 1,65,000 0 20,000 0 25,000 0 313,500 0 35,000 0 35,000 0 30,000 0 42,891,000 144,550 \$3,035,550
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 221 222 222 223 224 225 226 227 228	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Weil Unanticipated MajExp Fishing Coil Tubing Services Miss Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig SUBTOTAL CONTINGENCY (%) S.00% SUB-TOTAL INTANGIBLE COMPLETION COSTS TANGIBLE DRILLING COSTS DESCRIPTION	\$ -	0 Units	\$2,520,038	10,000 45,000 159,000 1,900,000 165,000 43,500 20,000 15,000 313,500 35,000 76,500 5,000 30,000 \$2,891,000 144,550 \$3,035,550	10,000 45,000 0 159,000 0 1,900,000 0 1,900,000 0 1,900,000 0 1,5,000 0 15,000 0 313,500 0 313,500 0 53,500 0 53,500 0 53,500 0 43,500 0 43,500 0 51,500 0 0
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 205 207 208 209 210 211 213 214 215 216 217 218 219 220 221 222 222 223 224 225 227 228	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig SUBTOTAL CONTINGENCY (%) 5.00% SUB-TOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE COSTS PESCREPTION Drive Pipe Conductor Casing	\$ Rate \$	0 Vnits 0	\$2,520,038 DRYHOLE \$20,000	10,000 45,000 159,000 1,900,000 165,000 43,500 20,000 15,000 313,500 35,000 76,500 5,000 30,000 \$2,891,000 144,550 \$3,035,550	10,000 45,000 0 159,000 0 1,900,000 0 1,900,000 0 1,900,000 0 1,165,000 0 1,16
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 221 222 222 223 224 225 226 227 228	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cernent & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttlings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Tasting Legal & Permits Environmental & Safety Costs Plugging Completion Rig Subrotal Intransible Completion Costs Sub-Total Intransible Costs TANGIBLE DRILLING COSTS Description Drive Pipe Conductor Casing Surface Casing	\$ -	0 Units	\$2,520,038 \$20,000 \$50,000	10,000 45,000 159,000 1,900,000 165,000 43,500 20,000 15,000 313,500 35,000 76,500 5,000 30,000 \$2,891,000 144,550 \$3,035,550	10,000 45,000 159,000 0 159,000 0 1,900,000 0 165,000 0 165,000 0 165,000 0 16,5555 0 17,5555,588
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 205 206 207 208 209 210 211 212 213 214 215 215 216 227 228 227 228 229 229 229 229 229 229 229 229 229	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig SubTotal Intransible Completion Costs Sub-Total Intransible Costs TANGIBLE DRILLING COSTS DESCRIPTION Drive Pipe Conductor Casing Surface Casing Intermediate Costing Intermediate Casing Liner Casing Intermediate Casing Intermediate Casing Intermediate Casing Intermediate Casing	Rate \$	Units 0 D	\$2,520,038 \$20,000 \$50,000	10,000 45,000 159,000 1,900,000 165,000 43,500 20,000 15,000 313,500 35,000 76,500 5,000 30,000 \$2,891,000 144,550 \$3,035,550	10,000 45,000 159,000 1,900,000 1,900,000 1,900,000 1,000,000 1,000,000 1,000,000 1,000,000
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 205 206 207 208 207 208 209 210 211 212 214 215 216 217 218 219 220 221 227 228 225 226 227 228 227 228 227 228 227 228 229 230 303 304 305 305	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cernent & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig Subrotal Insurancible Completion Costs Sub-Total Instancible Completion Costs Sub-Total Instancible Completion Costs Sub-Total Instancible Completion Costs Description Drive Pipe Conductor Casing Surface Casing Intermediate Casing Liner Casing Subs Fit Egpt Centralizers Etc	Rato 5 - 5 - 5 - 5 - 5 -	0 0 0 0	\$2,520,038 DRYHOLE \$20,000 \$50,000 \$125,000 \$150,000	10,000 45,000 159,000 1,900,000 165,000 43,500 20,000 15,000 313,500 35,000 76,500 5,000 30,000 \$2,891,000 144,550 \$3,035,550	10,000 45,000 75,000 1,900
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 205 206 207 208 209 210 211 212 213 214 215 215 216 227 228 227 228 229 229 229 229 229 229 229 229 229	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Loggling & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Pluggling Completion Rig SubTotal Intransible Completion Costs Sub-Total Intransible Costs TANGIBLE DRILLING COSTS DESCRIPTION Drive Pipe Conductor Casing Surface Casing Intermediate Casing	Rato 5 - 5 - 5 - 5 - 5 -	0 0 0 0	\$2,520,038 \$20,000 \$50,000 \$125,000 \$150,000 \$60,000	10,000 45,000 159,000 1,900,000 165,000 43,500 20,000 15,000 313,500 35,000 76,500 5,000 30,000 \$2,891,000 144,550 \$3,035,550	10,000 45,000 159,000 1,900,000 1,900,000 1,900,000 1,000,000 1,000,000 1,000,000 1,000,000
8306 8306 8306 8306 8306 8306 8306 8306	202, 203 204 205 206 207 208 209 210 211 212 213 214 215 215 216 217 218 229 220 221 222 223 222 223 227 228 TT. 301 302 304 305	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cernent & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig Subrotal Insurancible Completion Costs Sub-Total Instancible Completion Costs Sub-Total Instancible Completion Costs Sub-Total Instancible Completion Costs Description Drive Pipe Conductor Casing Surface Casing Intermediate Casing Liner Casing Subs Fit Egpt Centralizers Etc	Rato 5 - 5 - 5 - 5 - 5 -	0 0 0 0	\$2,520,038 DRYHOLE \$20,000 \$50,000 \$125,000 \$150,000	10,000 45,000 159,000 1,900,000 165,000 43,500 20,000 15,000 313,500 35,000 76,500 5,000 30,000 \$2,891,000 144,550 \$3,035,550	10,000 45,000 0 159,000 0 1,900,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

EXHIBIT ν (

ESTIMATE OF COSTS AND AUTHORIZATION FOR EXPENDITURE (AFE)

		Sombrero Fed COM #502H		BUD YEAR		DATE	January 22, 2018	
AFE NO	J.	Hat Hesa	REGION	Delaware I		SUPPLEMENT NO. LEGAL:	21S 33E	
OPERA		Ascent Energy, LLC	WELL NO.	502H		W.I.		
OBJEC		2nd Bone Spring	STATE	NM		MD/TVD	+/-15,910'/11,030'	
		OJECT START DATE: 3Q2018 Drill a 4600' lateral in the 2nd Bone Spring and f	frac with 33 stag	es. Assumes 4 :	string design			
	44.4	INTANGIBLE DRILLING COSTS	包括在40		es charles	a a Color of the Asia Color		Life Line of Labora
	CCT.	DESCRIPTION S. Communication		Rate	Units	DRYHOLE	environte, esperabilità	TOTAL WELLCOTT
8305 8305	101	Rig Move - MIRU, RDMO				\$145,000 \$100,000		\$145,000 100,000
8305	103	Rig Contractor-Daywork/FT		\$ 20,000	25	\$500,000		500,000
8305 8305	104	Rig Contractor-Turnkey Power & Fuel		-	-	\$110,000		0.
8305	106	Drill Fluids & Chemicals				\$85,000		110 000 85,000
8305	107	Bits, Reamer, Stabilizers				\$85,000		85,000/
8305	108	Cement & Cementing Services Mud Logging				\$165,000 \$44,000		165.000 44,000
8305	110	Open Hole Logging				\$30,000	2.7 (1.7)	10,000
8305 8305	111	Csq Crews & Tools Directional Tools & Service				\$70,000 \$210,000		70,000 210,000
8305	114	Form Eval - Well Testing DST - Coring, San	npling					C Lower Law of
8305	115	Tubular Inspection Equipment Rentals		-		\$20,000 \$300,000		20,000 300,000
8305	117	Contract Labor & Services				\$100,000	1 - 155500.	100,000
8305	118	Wellsite Consultants		\$ 2,000	50	\$100,000	all said to the said	100,000
8305 8305	119	Company Supervison & Labor Transportation				\$15,000	3 3000 10 5 5 5 6 6	15,000
8305	121	Mud, Cuttings & Water Disposal				\$50,000	والمحاجبة المراجعين	50,000
8305	122	Insurance Overhead	***************************************	1.9243	15,900	\$30,595 \$25,000		30,596 25,000
8305	124	Water & Water Well				\$25,000	THE TELESCOPE SAN	25,000
8305	125	Unanticipated MirExp (Fishing)		-		\$50,000		0.
8305	126	Outside Operated Other				550,000	V. N	50,000
8305	128	Permits				\$10,000	-13	10,000
8305 8305	129	Environmental & Safety Plugging		-		\$20,000		20,000
-		SUBTOTAL				\$2,289,596		\$2,289,596
6305	199	CONTINGENCY (%) 10.00% SUB-TOTAL INTANGIBLE DRILLING COSTS				228,960		228,960
200		INTANGIBLE COMPLETION COST	•		3	\$2,518,556		\$2,518,556
AC	CT.	DESCRIPTION		Rate	Units		COMPLETION	FOTAL WELL COST
8306	201	Location & Cleanup					\$10,000	\$10,000
8306	202	Power & Fuel					10,000	10,000
8306 8306	203	Compl Fluids & Chemicals Bits, Reamer, Stabilizers			-		45,000	45,000
8306	205	Cement & Cementing Svcs					AND THE ASSESSMENT OF A SECOND	0
8306	206	Logging & Perforation Svcs Csq Crews & Tools-Drive Hammer		-			159,000	159,000
8306	208	Directional Tools & Sycs				7 THE R. P. LEWIS CO., LANSING	A Maria Maria and the land	O.
8306 8306	209	Formation Stimulatn Acid Frac Formation Evaluation		-			1,900,000	1,900,000
8306	210	Tubular Inspection						Ď
8306	212	Equipment Rentals					165,000	165,000
8306 8306	213	Contract Labor & Services Wellsite Consultant		S -	0		43,500	43,500
8306	215	Company Supervision & Labor				A CONTRACTOR OF THE STATE OF TH		0
8306	216	Transportation Mud Cuttings & Water Disposal		-			20,000 15,000	20,000
8306	217	Insurance					15,000	15,000 0
8306	219	Overhead					212 500	0
8306 8306	220	Water & Water Well Unanticipated MajExp Fishing					313,500	313,500 D
8306	222	Coil Tubino Services				EE SCHOOL STORY OF STORY	63,500	63,500
8306 8306	223	Misc Supplies & Materials Flowback Testing					35,000 76,500	35,000 76,500
8306	225	Legal & Permits					5,000	5,000
8306	226	Environmental & Safety Costs Plugging		-				0
8306		Completion Rig		\$ -	0		30,000	30,000
		CHRITOTAL					\$2,891,000	\$2,891,000
8306	299	SUBTOTAL CONTINGENCY (%) 5,00%					144,550	\$2,891,000 144,550
		SUB-TOTAL INTANGIBLE COMPLETION COSTS					\$3,035,550	\$3,035,550
		SUB-TOTAL INTANGIBLE COSTS				\$2,518,556	\$3,035,550	\$5,554,106
6350	13 1.113	TANGIBLE DRILLING COSTS	12.00 L	- galaxalei	2007	100 mg		
AC		DESCRIPTION		1	Units	DRYHOLE	STATE OF THE PERSON NAMED IN	TOTAL WELL COST
8308 8308		Drive Pipe Conductor Casing Surface Casing		\$ -	0	\$20,000 \$50,000		\$20,000 50,000
8308	303	Intermediate Casing		\$ -	0	\$125,000		50,000 125,000
8308	304	Liner Casing		\$ -	0	\$150,000		\$50,000 \$25,000 \$150,000
		Subs Flt Egpt Centralizers Etc				Market Strategy of the Control of the Strategy		
8308						\$60,000		60.000
8308	306 307	Casinghead Orilling Spool Sub Surface Equipment				\$60,000		60,000
8308	306 307	Casinghead Drilling Spool				\$60,000		60,000 0 0
8308	306 307 308	Casinghead Orilling Spool Sub Surface Equipment				\$60,000 \$405,000		

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DESCRIPTION Production Casing Tubling Subs Fit Egnt Centralizers Etc Sub Surface Equipment Xmas Tree Upper Section Outside Operated Other SUB-TOTAL TANGIBLE COMPLETION COSTS SUB-TOTAL INTAMGIBLE COSTS PRODUCTION EQUIPMENT CO: Artificial Lift Equipment Prime Mover Electric Gas Sales Gathering Line Separation Equipment Oil Treating Dehy Equipment Tanks Meters Electrical Equip Install Compressor Flowlines Labor Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers Chemical Injection System Pliping & Valves Manifolds & Headers Chemical Injection System Piping & Valves	SIS	Rate	Units 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$405,000 \$2,923,556	\$15,000 50,000 70,000 55,000	707AL WELL COST \$129,000 40,000 0 30,000 60,000 \$180,000 \$785,000 \$6,239,106 107ALWELLOST 515,000 50,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Tubing Subs Fit Egot Centralizers Etc Sub Surface Egulpment Xmas Tree Upper Section Outside Operated Other SUB-TOTAL TANGIBLE COMPLETION COSTS SUB-TOTAL TANGIBLE COSTS SUB-TOTAL ITANGIBLE COSTS SUB-TOTAL ITANGIBLE COSTS SUB-TOTAL ITANGIBLE TANGIBLE COSTS PRODUCTION EQUIPMENT CO. Artificial Lift Equipment Prime Mover Electric Gas Sales Gathering Line Separation Equipment Old Treating Heating Equipment Gas Treating Dehy Equipment Tanks Meters Electrical Equip Install Compressor Flowlines Labor Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers Chemical Injection System	STS	\$		\$405,000 \$2,923,556	40,000 30,000 60,000 \$380,000 \$380,000 \$380,000 \$3,415,550 COMPLETION \$15,000 70,000 55,000	\$10,000 \$10,000 \$0,000 \$280,000 \$785,000 \$5,339,106 107AL \$11,000 \$15,000 \$0,0
Tubing Subs Fit Egot Centralizers Etc Sub Surface Egulpment Xmas Tree Upper Section Outside Operated Other SUB-TOTAL TANGIBLE COMPLETION COSTS SUB-TOTAL TANGIBLE COSTS SUB-TOTAL ITANGIBLE COSTS SUB-TOTAL ITANGIBLE COSTS SUB-TOTAL ITANGIBLE TANGIBLE COSTS PRODUCTION EQUIPMENT CO. Artificial Lift Equipment Prime Mover Electric Gas Sales Gathering Line Separation Equipment Old Treating Heating Equipment Gas Treating Dehy Equipment Tanks Meters Electrical Equip Install Compressor Flowlines Labor Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers Chemical Injection System	STS		0	\$405,000 \$2,923,556	30,000 60,000 \$380,000 \$380,000 \$3,415,550 COMPLETION \$15,000 \$0,000	\$180,000 \$380,000 \$785,000 \$5,339,106 \$15,000 \$10,000
Sub Surface Equipment Ximas Tree Upper Section Outside Operated Other SUB-TOTAL TANGIBLE COMPLETION COSTS SUB-TOTAL TANGIBLE COSTS SUB-TOTAL TANGIBLE COSTS SUB-TOTAL INTANGIBLE A TANGIBLE COSTS PRODUCTION EQUIPMENT CO: Artificial Lift Equipment Prime Mover Electric Gas Sales Gatherino Line Separation Equipment Oil Treating Dehy Equipment Tanks Meters Electrical Equip Install Compressor Flowlines Labor Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers Chemical Injection System	SIS			\$2,923,556	30,000 60,000 \$380,000 \$380,000 \$3,415,550 COMPLETION \$15,000 \$0,000	\$1,000 \$0,000 \$1,80,000 \$7,85,000 \$6,339,106 TVIA WELLOOF! \$15,000
Xmas Tree Upper Section Outside Operated Other Outside Operated Other SUB-TOTAL TANGIBLE CONFLETION COSTS SUB-TOTAL TANGIBLE COSTS SUB-TOTAL INTANGIBLE COSTS SUB-TOTAL INTANGIBLE A TANGIBLE COSTS PRODUCTION EQUIPMENT CO: Artificial Lift Equipment Prime Mover Electric Gas Sales Gatherina Line Separation Equipment Oil Treating Heating Equipment Gas Treating Dehy Equipment Tanks Meters Electrical Equip Install Compressor Flowlines Labor Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers	STS			\$2,923,556	\$380,000 \$380,000 \$380,000 \$3,415,550 COMPLETION \$15,000 \$0,000 70,000 55,000	\$180,000 \$180,000 \$785,000 \$5,339,106 107ALWELLCOST \$15,000
Outside Operated Other SUB-TOTAL TANGIBLE COMPLETION COSTS SUB-TOTAL TANGIBLE COSTS SUB-TOTAL TANGIBLE COSTS SUB-TOTAL TANGIBLE OSTS PRODUCTION EQUIPMENT CO. Artificial Lift Equipment Prime Mover Electric Gas Sales Gatherino Line Separation Equipment Oil Treating Delay Equipment Gas Treating Delay Equipment Tanks Meters Electrical Equip Install Compressor Flowlines Labor Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers Chemical Injection System	STS			\$2,923,556	\$380,000 \$380,000 \$3,415,550 COMPLETION \$15,000 \$0,000 70,000	\$380,000 \$785,000 \$6,339,106 10/A-Well Cost \$15,000 \$0,000
SUB-TOTAL TANGIBLE COMPLETION COSTS SUB-TOTAL TANGIBLE COSTS SUB-TOTAL INTANGIBLE COSTS SUB-TOTAL INTANGIBLE COSTS PRODUCTION EQUIPMENT CO: Artificial Lift Equipment Prime Mover Electric Gas Sales Gathering Line Separation Equipment Oil Treating Healting Equipment Gas Treating Dehy Equipment Tanks Metiers Electrical Equip Install Compressor Flowlines Labor Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers Manifolds & Headers Chemical Injection System	STS I			\$2,923,556	\$380,000 \$3,415,550 COMPLETION \$15,000 \$0,000 70,000 55,000	\$380,000 \$785,000 \$6,339,106 107A\\ \tell\{Cis}\\ 515,000 50,000
SUB-TOTAL TANGIBLE COSTS SUB-TOTAL INTANGIBLE A TANGIBLE COSTS PRODUCTION EQUIPMENT CO. Artificial Lift Equipment Prime Mover Electric Gas Sales Gatherino Line Separation Equipment Oil Treating Dehy Equipment Tanks Meters Electrical Equip Install Compressor Flowlines Labor Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers Manifolds & Headers Chemical Injection System	STS			\$2,923,556	\$380,000 \$3,415,550 COMPLETION \$15,000 \$0,000 70,000 55,000	\$785,000 \$5,339,106 107A-Well Cost \$15,000 \$0 \$0,000
SUB-TOTAL TANGIBLE COSTS SUB-TOTAL INTANGIBLE A TANGIBLE COSTS PRODUCTION EQUIPMENT CO. Artificial Lift Equipment Prime Mover Electric Gas Sales Gatherino Line Separation Equipment Oil Treating Dehy Equipment Tanks Meters Electrical Equip Install Compressor Flowlines Labor Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers Manifolds & Headers Chemical Injection System	STS			\$2,923,556	\$380,000 \$3,415,550 COMPLETION \$15,000 \$0,000 70,000 55,000	\$785,000 \$5,339,106 107A-Well Cost \$15,000 \$0 \$0,000
SUB-TOTAL INTANGIBLE & TANGIBLE COSTS PRODUCTION EQUIPMENT CO: Artificial Lift Equipment Prime Mover Electric Gas Sales Gathering Line Separation Equipment Oil Treating Heating Equipment Gas Treating Dehy Equipment Tanks Meters Electrical Equip Install Compressor Flowlines Labor Trucks Hauling Transportation Buildings Rands & Locations Manifolds & Headers Chemical Injection System	STS			\$2,923,556	\$3,415,550 COMPLETION \$15,000 50,000 70,000 55,000	\$6,339,106 ID/ALWELL COST \$15,000 3 50,000
PRODUCTION EQUIPMENT CO: Artificial Lift Equipment Prime Mover Electric Gas Sales Gatherino Line Separation Equipment Oil Treating Heating Equipment Gas Treating Dehy Equipment Tanks Meters Electrical Equip Install Compressor Fleetrical Equip Install Compressor Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers Chemical Injection System	STS				COMPLETION \$15,000 \$10,000 \$70,000 \$5,000	107A-WEU COST \$15,000 8 0 50,000
Artificial Lift Equipment Prime Mover Electric Gas Sales Gatherino Line Separation Equipment Oil Treating Heating Equipment Gas Treating Dehy Equipment Tanks Meters Electrical Equip Install Compressor Flowlines Labor Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers Chemical Injection System	SIS				\$15,000 \$15,000 \$0,000 \$70,000 \$5,000	\$15,000 0 0 50,000 0
Prime Mover Electric Gas Sales Gathering Line Separation Equipment Oil Treating Heating Equipment Gas Treating Dehy Equipment Tanks Meters Electrical Equip Install Compressor Flowlines Labor Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers Chemical Injection System					\$15,000 50,000 70,000 55,000	\$15,000 0 0 50,000 0
Prime Mover Electric Gas Sales Gathering Line Separation Equipment Oil Treating Heating Equipment Gas Treating Dehy Equipment Tanks Meters Electrical Equip Install Compressor Flowlines Labor Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers Chemical Injection System					\$15,000 50,000 70,000 55,000	\$15,000 0 0 50,000 0
Sales Gatherino Line Separation Equipment Oil Treating Heating Equipment Gas Treating Dehy Equipment Tanks Meters Electrical Equip Install Compressor Flowlines Labor Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers Chemical Injection System					70,000 55,000	50,000 0
Separation Equipment Oil Treating Heating Equipment Gas Treating Deby Equipment Tanks Meters Electrical Equip Install Compressor Flowlines Labor Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers Chemical Injection System					70,000 55,000	50,000 0
Oil Treating Heating Equipment Gas Treating Dehy Equipment Taniks Meters Electrical Equip Install Compressor Flowlines Labor Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers Chemical Injection System					70,000 55,000	
Gas Treating Dehy Equipment Tanks Meters Electrical Equip Install Compressor Flowlines Labor Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers Chemical Injection System					55,000	
Tanks Meters Electrical Equip Install Compressor Flowlines Labor Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers Chemical Injection System					55,000	
Meters Electrical Equip Install Compressor Flowlines Labor Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers Chemical Injection System				Control of the USE of the Control of the USE	55,000	
Electrical Equip Install Compressor Flowlines Labor Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers Chemical Injection System						55,000
Compressor Flowlines Labor Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers Chemical Injection System						20,000
Flowlines Labor Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers Chemical Injection System					20,000	0,000
Labor Trucks Hauling Transportation Buildings Roads & Lucations Manifolds & Headers Chemical Injection System				THE STATE OF THE S	50,000	50,000
Trucks Hauling Transportation Buildings Roads & Locations Manifolds & Headers Chemical Injection System		-		ENTRE STATE OF THE	130,000	130,000
Buildings Roads & Locations Manifolds & Headers Chemical Injection System		1			THE PERSON NAMED IN COLUMN	
Roads & Locations Manifolds & Headers Chemical Injection System					e partie de la companya de la compan	
Chemical Injection System					10,000	10,000
Chemical Injection System Piping & Valves					15,000	15,000
Piping & Valves					- Tracyalor I Heli	0
				and the second second	50,000	50,000
					TOUT HEREIT	0
Surface Pumps					5,000	5,000
Filters		-				0
		-				0
		-				10,000
Engineering Supervision		-				30,000
Surface Facilities		-		Company of the Compan	15,000	15,000
					1000	
						\$525,000
SUB-TOTAL INTANGIBLE COSTS (PAGE 1)				\$2,518,556	\$3,035,550	\$5,554,100
SUB-TOTAL TANGIBLE COSTS (PAGE 2)				\$405,000	\$380,000	\$785,000
GRU	AND TOTAL			\$2,923,556	\$3,940,550	\$6,864,100
		5				\$5,864,100
101	TAL NET COSTS			\$0	\$0	\$(
stor: Ceets shown on this form are estimates only.		not consider t	hese estimates	es establishing any limit		
	DATE			GROSS AFE AMOUNT - DRY HOLE		\$2,923,556
				NET DRYHOLE AFE AMOUNT		\$0
	DATE	-				\$(
						\$1
	DATE					
	I OATE					\$(
				TOTAL CASH OUTLAY		\$(
	DATE					
WORKING INTEREST ARREOVAL						
	NTERECT	T		ADDROVED BY		DATE
COMPANY WORKING	INTEREST			APPROVED BY		DATE
	Welding Surface Pumps Filters Outside Operated Other Environmental & Safety Engineering Supervision Surface Facilities SuB-TOTAL PRODUCTION EQUIPMENT SUB-TOTAL INTANGIBLE COSTS (PAGE 1) SUB-TOTAL THANGIBLE COSTS (PAGE 2) GR LESS TOT Into: Ceets shown on this form are estimates only, ill be required to perform the proposed operation.	Welding Surface Pumps Filters Dutside Operated Other Environmental & Safety Engineering Supervision Surface Facilities SUB-TOTAL PRODUCTION EQUIPMENT SUB-TOTAL INTANGIBLE COSTS (PAGE 1) SUB-TOTAL TANGIBLE COSTS (PAGE 2) GRAND TOTAL LESS OUTSIDE INTEREST TOTAL NET COSTS for: Ceets shown on this form are estimates only. Nonoperators should fill be required to perform the proposed operation. DATE DATE DATE WORKING INTEREST APPROVAL	Weldling Surface Pumps Filters Dutside Operated Other Environmental & Safety Engineering Supervision Surface Facilities Sub-TOTAL PRODUCTION EQUIPMENT SUB-TOTAL THYANGIBLE COSTS (PAGE 1) SUB-TOTAL THYANGIBLE COSTS (PAGE 2) GRAND TOTAL LESS OUTSIDE INTERESTS TOTAL NET COSTS tor: Ceets shown on this form are estimates only. Nonoperators should not consider to the required to perform the proposed operation. DATE DATE DATE DATE WORKING INTEREST APPROVAL	Welding Surface Pumps Filters Outside Operated Other Environmental & Safety Engineering Supervision Surface Facilities Sub-TOTAL PRODUCTION EQUIPMENT SUB-TOTAL THYANGIBLE COSTS (PAGE 1) SUB-TOTAL THYANGIBLE COSTS (PAGE 2) GRAND TOTAL LESS OUTSIDE INTERESTS TOTAL NET COSTS tor: Ceets shown on this form are estimates only. Monoperators should not consider these estimates ill be required to parform the proposed operation. DATE DATE DATE DATE WORKING INTEREST APPROVAL	Working Interest approval	Welding Surface Pumps Surface Pumps Surface Pumps Surface Facilities S

ESTIMATE OF COSTS AND AUTHORIZATION FOR EXPENDITURE (AFE)

	Trucker Fed COM #601H		BUD YEAR	2018	DATE	January 22, 2018	
AFE NO.	Hat Mesa	REGION	Delaware		SUPPLEMENT NO.	210 220	
OPERATOR	Ascent Energy, LLC	WELL NO.	501H	Destin	LEGAL: W.I.	21S 33E	
OBJECTIVE	3rd Bone Spring	STATE	NM		MD/TVD	+/-16,590'/11,700'	
	OJECT START DATE: 3Q2018						
DESCRIPTION:	Drill a 4600' lateral in the 3rd Bone Spring and	frac with 33 stages.	Assumes 4 st	ring design.			
SQ VANAS O	INTANGIBLE DRILLING COST	Carrier and the same	Vigor Styping	14 84 2	Company of the second second		ew Branches Land Bullion
ACCT.	DESCRIPTION	3 Landau Landau Landau	Rate	Units	PRYHOLE		TOTALWELLCOOT
8305 101	Location Cleanup & Damages		PORTO	Oints	\$145,000		\$145,000
8305 102	Rig Move - MIRU, RDMO		4 20 000	26	\$100,000	fire to all the state of the st	100,000
8305 103 8305 104	Rig Contractor-Daywork/FT Rig Contractor-Turnkey		\$ 20,000	26	\$520,000		520,000
8305 105	Power & Fuel				\$110,000		110,000
8305 106 8305 107	Drill Fluids & Chemicals				\$100,000		100/000
8305 107 8305 108	Bits, Reamer, Stabilizers Cement & Cementing Services				\$85,000 \$165,000	are year and a second	85,000 165,000
8305 109	Mud Logging				\$44,000	Constitutions were	44,000
8305 110 8305 111	Open Hole Logging Csq Crews & Tools				\$30,000 \$70,000		30,000 70,000
8305 112	Directional Tools & Service				\$220,000	A	220,000
8305 114	Form Eval - Well Testing DST - Coring, S	ampling					0
8305 115 8305 116	Tubular Inspection Equipment Rentals				\$20,000 \$300,000	Control of the contro	20,000 300,000
8305 117	Contract Labor & Services				\$100,000		100,000
8305 118	Wellsite Consultants		\$ 2,000	52	\$104,000	Service of the service	104,000
8305 119 8305 120	Company Supervison & Labor Transportation				\$15,000		15,000
8305 121	Mud, Cuttings & Water Disposal				\$50,000		50,000
8305 122	Insurance		1.9243	16,590	\$31,924		31,924
8305 123 8305 124	Overhead Water & Water Well				\$25,000 \$25,000	and the second	25,000 25,000
8305 125	Unanticipated MjrExp (Fishing)					William Street Street	0
8305 126 8305 127	Cutside Coursted Other				\$50,000		50,000
8305 128	Outside Operated Other Permits				\$10,000		10,000
8305 129	Environmental & Safety				\$20,000	VI., a, in a release 1 1000	20,000
8305 130	SUBTOTAL				\$2,339,924	The same of the same of	\$2,339,924
8305 199	CONTINGENCY (%) 10.00%				233,992		233,992
	SUB-TOTAL INTANGIBLE DRILLING COSTS				\$2,573,917		\$2,573,917
128	INTANGIBLE COMPLETION COS	TS			A STATE OF THE SECOND SECOND		
ACCT.	DESCRIPTION		Rate	Units		COMPLETION	TOTAL WELL COST
8306 201 8306 202	Location & Cleanup Power & Fuel					\$10,000 10,000	\$10,000 10,000
8306 203	Compl Fluids & Chemicals					45,000	45,000
8306 204	Bits, Reamer, Stabilizers					STATE OF STREET	0
8306 205 8306 206	Cement & Cementing Svcs Logging & Perforation Svcs				CONTROL CONTROL OF STANDARD CONTROL OF STANDAR		
8306 207					No. of the second second second	159 000	129 000
8306 208	Csq Crews & Tools-Drive Hammer					159,000	159,000
0306 300	Csq Crews & Tools-Drive Hammer Directional Tools & Svcs						159,000 0 0
8306 209 8306 210	Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac					1,900,000	159,000 0 0 0 1,900,000
8306 210 8306 211	Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection					1,900,000	159,000 0 0 1,900,000 0
8306 210 8306 211 8306 212	Csq Crews & Tools & Svcs Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals						1,900,000 0 1,900,000 0 0 1,65,000
8306 210 8306 211	Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection		\$ -	0		1,900,000 165,000	159,000 0 0 1,900,000 0 0 165,000 0
8306 210 8306 211 8306 212 8306 213 8305 214 8306 215	Csq Crews & Tools - Prive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Egulpment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor		\$ -	0		1,900,000 165,000 43,500	159,000 0 1,900,000 0 165,000 131,500 0
8306 210 8306 211 8306 212 8306 213 8305 214 8306 215 8306 216	Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Eguipment Rentals Contract Labor & Services Wellsite Consultant Company Suparvision & Labor Transportation		\$.	0		1,900,000 165,000 43,500 20,000	159,000 D 1,900,000 0 165,000 43,500 10 20,000
8306 210 8306 211 8306 212 8306 213 8305 214 8306 215	Csq Crews & Tools - Prive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Egulpment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor		\$ -	0		1,900,000 165,000 43,500	159,000 0 1,900,000 0 165,000 131,500 0
8306 210 8306 211 8306 212 8306 213 8305 214 8305 214 8306 215 8306 216 8306 217 8306 218	Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead		\$ -	0		1,900,000 165,000 43,500 20,000 15,000	159,000 1,900,000 1,900,000 0 1,55,000 20,000 15,000 15,000 15,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8306 210 8306 211 8306 212 8306 213 8306 214 8306 215 8306 216 8306 216 8306 217 8306 218 8306 218 8306 219	Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well		\$ -	0		1,900,000 165,000 43,500 20,000	159,000 0 1,900,000 0 155,000 0 43,500 20,000 15,000 0 20,000 15,00
8306 210 8306 211 8305 212 8305 213 8305 214 8305 215 8306 215 8306 216 8306 217 8306 218 8306 219 8306 221 8306 221 8306 221 8306 221 8306 221 8306 221	Csq Crews & Tools-Prive Hammer Directional Tools & Svcs Formation Stimulata Acid Frac Formation Evaluation Tubular Inspection Eguipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MaiExp Fishing Coll Tubing Services		\$ -	0		1,900,000 165,000 43,500 20,000 15,000 313,500 63,500	159,000 1,900,000 1,900,000 0 1,55,000 43,500 20,000 15,000 0 31,3,500 0 63,500
8306 210 8306 211 8305 212 8305 213 8305 214 8305 215 8305 215 8306 216 8306 217 8306 218 8306 218 8306 222 8306 222 8306 221 8306 222 8306 222 8306 223	Csq Crews & Tools-Prive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MaiExp Fishing Coll Tubing Services Misc Supplies & Materials		\$ -	0		1,900,000 165,000 43,500 20,000 15,000 313,500 63,500 35,000	159,000 1,900,000 1,900,000 0 1,900,000 0 165,000 15,000 15,000 15,000 0 0 313,500 0 63,500 35,000
8306 210 8306 211 8306 213 8305 213 8305 214 8305 215 8306 215 8306 217 8306 218 8306 219 8306 218 8306 220 8306 220 8306 220 8306 223 8306 223 8306 223	Csq Crews & Tools-Prive Hammer Directional Tools & Svcs Formation Stimulata Acid Frac Formation Evaluation Tubular Inspection Eguipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MaiExp Fishing Coll Tubing Services		\$ -	0		1,900,000 165,000 43,500 20,000 15,000 313,500 63,500 35,000 76,500	159,000 1,900,000 1,900,000 1,55,000 43,500 20,000 15,000 313,500 63,500 35,000 76,500
8306 210 8306 211 8306 212 8305 212 8305 213 8305 215 8306 215 8306 215 8306 216 8306 217 8306 218 8306 218 8306 218 8306 222 8306 223 8306 223 8306 223 8306 223 8306 223 8306 224 8306 224 8306 225	Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Eguipment Rentals Contract Labor & Services Wellsite Consultant Company Suparvision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Weil Unanticipated MaiExp Fishing Coll Tubing Services Miss Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs		\$ -	0		1,900,000 165,000 43,500 20,000 15,000 313,500 63,500 35,000	159,000 D 1,900,000 1,900,000 0 165,000 20,000 15,000 15,000 0 313,500 313,500 35,000 76,500 5,000
8306 210 8306 211 8306 212 8305 212 8305 213 8305 215 8306 215 8306 215 8306 216 8306 218 8306 218 8306 218 8306 223 8306 223 8306 221 8306 223 8306 223 8306 223 8306 223 8306 223 8306 223 8306 223 8306 223 8306 224	Csq Crews & Tools-Prive Hammer Directional Tools & Svcs Formation Stimulata Acid Frac Formation Evaluation Tubular Inspection Eguipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MaiExp Fishing Coll Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging					1,900,000 165,000 43,500 20,000 15,000 313,500 63,500 35,000 76,500 5,000	159,000 1,900,000 1,900,000 1,900,000 1,5000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000
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8306 210 8306 211 8306 212 8306 212 8306 213 8306 214 8308 215 8306 216 8306 217 8306 217 8306 218 8306 219 8306 220 8306 220 8306 220 8306 223 8306 223 8306 223 8306 223 8306 224 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225	Csq Crews & Tools-Prive Hammer Directional Tools & Svcs Formation Stimulata Acid Frac Formation Evaluation Tubular Inspection Eguipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Weil Unanticipated MalExp Fishing Coll Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugqing Completion Riq Subrotal					1,900,000 165,000 43,500 20,000 15,000 313,500 63,500 35,000 76,500 5,000 30,000 \$2,891,000	159,000 1,900,000 1,900,000 165,000 43,500 20,000 15,000 15,000 31,000 76,500 5,000 30,000 \$2,891,000
8306 210 8306 211 8306 212 8306 212 8306 213 8306 214 8308 215 8306 216 8306 217 8306 217 8306 218 8306 219 8306 220 8306 220 8306 220 8306 223 8306 223 8306 223 8306 223 8306 224 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225	Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Eguipment Rentals Contract Labor & Services Wellsite Consultant Company Suparvision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Weil Unanticipated MaiExp Fishing Coll Tubing Services Miss Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Pluggling Completion Rig Subarotal Completion Rig Subarotal Subarotal Completion Rig Subarotal Subarotal Completion Rig Subarotal					1,900,000 165,000 43,500 20,000 15,000 313,500 63,500 76,500 5,000 30,000 \$2,891,000 144,550	159,000 D 1,900,000 1,900,000 165,000 165,000 15,00
8306 210 8306 211 8306 212 8306 212 8306 213 8306 214 8308 215 8306 216 8306 217 8306 217 8306 218 8306 219 8306 220 8306 220 8306 220 8306 223 8306 223 8306 223 8306 223 8306 224 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225	Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Eguipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugqling Completion Rig Subrotal Linanger Contributed Subrotal Linanger Subrotal Subrotal Lina					1,900,000 165,000 43,500 20,000 15,000 313,500 35,000 35,000 30,000 \$2,891,000 144,550 \$3,035,550	159,000 1,900,000 1,900,000 1,900,000 15,000 16,500 17,550 18,000 18,0
8306 210 8306 211 8306 212 8306 212 8306 213 8306 214 8308 215 8306 216 8306 217 8306 217 8306 218 8306 219 8306 220 8306 220 8306 220 8306 223 8306 223 8306 223 8306 223 8306 224 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225	Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Eguipment Rentals Contract Labor & Services Wellsite Consultant Company Suparvision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Weil Unanticipated MaiExp Fishing Coll Tubing Services Miss Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Pluggling Completion Rig Subarotal Completion Rig Subarotal Subarotal Completion Rig Subarotal Subarotal Completion Rig Subarotal				\$2,573,917	1,900,000 165,000 43,500 20,000 15,000 313,500 63,500 76,500 5,000 30,000 \$2,891,000 144,550	159,000 D 1,900,000 1,900,000 165,000 165,000 15,00
8306 210 8306 211 8306 212 8306 212 8306 213 8306 214 8308 215 8306 216 8306 217 8306 217 8306 218 8306 219 8306 220 8306 220 8306 220 8306 223 8306 223 8306 223 8306 223 8306 224 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225 8306 225	Csq Crews & Tools-Prive Hammer Directional Tools & Svcs Formation Stimulata Acid Frac Formation Evaluation Tubular Inspection Eguipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Weil Unanticipated Mai Exp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig Subrotal. Intansible Completion Costs Sub-Total. Intansible Completion Costs Sub-Total. Intansible Costs		5 -			1,900,000 165,000 43,500 20,000 15,000 313,500 35,000 35,000 30,000 \$2,891,000 144,550 \$3,035,550	159,000
8306 210 8306 211 8306 212 8306 212 8306 213 8306 214 8306 215 8306 217 8306 217 8306 218 8306 217 8306 220 8306 220 8306 221 8306 220 8306 223 8306 223 8306 223 8306 225 8306 225 8306 225 8306 226 8306 227 8306 228	Csq Crews & Tools-Prive Hammer Directional Tools & Svcs Formation Stimulata Acid Frac Formation Evaluation Tubular Inspection Eguipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MaiExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig Subrotal Subrotal Subrotal Subrotal Subrotal Intransible Completion Costs Sub-Total Intransible Costs TANGIBLE DRILLING COSTS		5 -	0	\$2,573,917 DRYHOLE \$20,000	1,900,000 165,000 43,500 20,000 15,000 313,500 35,000 35,000 30,000 \$2,891,000 144,550 \$3,035,550	159,000 1,900,000 1,900,000 165,000 43,500 43,500 20,000 15,000 31,500 76,500 76,500 90 30,000 \$2,891,000 144,550 \$3,035,550 \$5,609,467
8306 210 8306 211 8306 212 8306 212 8306 213 8306 214 8306 215 8306 217 8306 217 8306 218 8306 217 8306 220 8306 221 8306 222 8306 222 8306 223 8306 223 8306 223 8306 224 8306 225 8306 225 8306 226 8306 227 8306 228 8306 227 8306 228	Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Eguipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Weil Unanticipated MaiExp Fishing Coil Tubing Services Miss Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugqing Completion Rig Subarotal. Subarotal. Subarotal. Intansible Completion Costs Sub-Total. Intansible Costs TANGIBLE DRILLING COSTS DESCRIPTION DIVERCENTING Surface Casing Surface Casing Surface Casing		\$ Rate \$ \$ \$	Units O	\$2,573,917 DRYHOLE \$20,000	1,900,000 165,000 43,500 20,000 15,000 313,500 35,000 35,000 30,000 \$2,891,000 144,550 \$3,035,550	159,000 1,900,000 1,900,000 1,5000 43,500 43,500 20,000 15,000 31,500 76,500 30,000 \$2,891,000 144,550 \$3,035,550 \$5,609,467
8306 210 8306 211 8306 212 8306 212 8306 213 8305 214 8308 215 8306 216 8306 216 8306 217 8306 218 8306 220 8306 220 8306 220 8306 220 8306 220 8306 220 8306 223 8306 224 8306 225 8306 225 8306 225 8306 226 8306 227 8306 228 8308 209	Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Suparvision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Weil Unanticipated MalExp Fishing Coll Tubing Services Miss Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Pluggling Completion Rig Subrotal Intransible Completion Costs Subrotal Intransible Completion Costs Subrotal Intransible Costs TANGIBLE DRILLING COSTS Description Drive Pipe Conductor Casing Surface Casing Intermediate Casing Intermediate Casing Intermediate Casing Intermediate Casing Intermediate Casing		Rate 5 - 5 - 5 - 5 - 7	Units 0 0 0	\$2,573,917 DNYHOLE \$20,000 \$50,000 \$150,000	1,900,000 165,000 43,500 20,000 15,000 313,500 35,000 35,000 30,000 \$2,891,000 144,550 \$3,035,550	159,000 1,900,000 1,900,000 165,000 43,500 20,000 15,000 31,500 35,000 76,500 5,000 30,000 \$2,891,000 144,550 \$3,035,550 \$5,609,467
8306 210 8306 211 8306 212 8306 212 8306 213 8306 214 8306 215 8306 217 8306 217 8306 218 8306 217 8306 220 8306 221 8306 222 8306 222 8306 223 8306 223 8306 223 8306 224 8306 225 8306 225 8306 226 8306 227 8306 228 8306 227 8306 228	Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Eguipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MaiExp Fishing Coll Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugqing Completion Rig Sub-Total Intransible Completion Costs Sub-Total Intransible Completion Costs Sub-Total Intransible Costs TANGIBLE DRILLING COSTS DESCRUPTION Drive Pipe Conductor Casing Surface Casing Liner Casing		\$ Rate \$ \$ \$	Units O	\$2,573,917 DRYHOLE \$20,000	1,900,000 165,000 43,500 20,000 15,000 313,500 35,000 35,000 30,000 \$2,891,000 144,550 \$3,035,550	159,000 1,900,000 1,900,000 155,000 43,500 43,500 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 16,500 16,500 16,500 17,500 10,000 144,550 \$3,035,550 \$5,609,467
8306 210 8306 211 8306 212 8306 212 8306 213 8306 215 8306 215 8306 216 8306 216 8306 216 8306 219 8306 219 8306 220 8306 220 8306 221 8306 220 8306 221 8306 220 8306 221 8306 222 8306 223 8306 224 8306 225 8306 225 8306 226 8306 227 8306 228 8308 228 8308 228 8308 228 8308 308 8308 308 8308 301 8308 301 8308 302 8308 304 8308 305	Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Suparvision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MaiExp Fishing Coll Tubing Services Miss Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Pluggling Completion Riq SUBTOTAL INTANSIBLE COMPLETION COSTS SUB-TOTAL INTANSIBLE COMPLETION COSTS SUB-TOTAL INTANSIBLE COSTS TANGBILE DRILLING COSTS DESCRIPTION Drive Pipe Conductor Casing Surface Casing Intermediate Casing Liner Casing Liner Casing Subs Fl Egpt Centralizers Etc Casinghapping Casinghapping Subs Fl Egpt Centralizers Etc Casinghapping Casinghapping Casinghapping Subs Fl Egpt Centralizers Etc Casinghapping		Rate 5 - 5 - 5 - 5 - 7	Units 0 0 0	\$2,573,917 DNYHOLE \$20,000 \$50,000 \$150,000	1,900,000 165,000 43,500 20,000 15,000 313,500 35,000 35,000 30,000 \$2,891,000 144,550 \$3,035,550	159,000 D 1,900,000 1,900,000 165,000 165,000 15,000
8306 210 8306 211 8306 212 8306 212 8306 213 8306 215 8306 215 8306 217 8306 217 8306 217 8306 219 8306 219 8306 219 8306 220 8306 221 8306 220 8306 223 8306 223 8306 223 8306 223 8306 225 8306 226 8306 227 8306 228 8306 228 8306 228 8306 303 8306 303 8308 304 8308 305 8308 305 8308 305	Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Eguipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MaiExp Fishing Coll Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugding Completion Rig Subortal Intransible Completion Costs Sub-Total Intransible Completion Costs Sub-Total Intransible Costs Francial Costs From Prive Pipe Conductor Casing Surface Casing Intermediate Casing Subor Casing Sub Still Equipment Sub Sufface Casing Sub Fit Egot Centralizers Etc Casinghaed Drilling Spool Sub Sufface Equipment		Rate 5 - 5 - 5 - 5 - 7	Units 0 0 0	\$2,573,917 DRYHOLE \$20,000 \$50,000 \$125,000 \$125,000 \$150,000	1,900,000 165,000 43,500 20,000 15,000 313,500 35,000 35,000 30,000 \$2,891,000 144,550 \$3,035,550	\$159,000 1,900,000 1,900,000 1,5000 20,000 15,000 313,500 313,500 313,500 35,000 35,000 \$2,891,000 \$2,891,000 \$3,000 \$4,550 \$5,609,467
8306 210 8306 211 8306 212 8306 212 8306 213 8306 215 8306 215 8306 216 8306 216 8306 216 8306 219 8306 219 8306 220 8306 220 8306 221 8306 220 8306 221 8306 220 8306 221 8306 222 8306 223 8306 224 8306 225 8306 225 8306 226 8306 227 8306 228 8308 228 8308 228 8308 228 8308 308 8308 308 8308 301 8308 301 8308 302 8308 304 8308 305	Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Suparvision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MaiExp Fishing Coll Tubing Services Miss Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Pluggling Completion Riq SUBTOTAL INTANSIBLE COMPLETION COSTS SUB-TOTAL INTANSIBLE COMPLETION COSTS SUB-TOTAL INTANSIBLE COSTS TANGBILE DRILLING COSTS DESCRIPTION Drive Pipe Conductor Casing Surface Casing Intermediate Casing Liner Casing Liner Casing Subs Fl Egpt Centralizers Etc Casinghapping Casinghapping Subs Fl Egpt Centralizers Etc Casinghapping Casinghapping Casinghapping Subs Fl Egpt Centralizers Etc Casinghapping		Rate 5 - 5 - 5 - 5 - 7	Units 0 0 0	\$2,573,917 DNYHOLE \$20,000 \$550,000 \$125,000 \$150,000	1,900,000 165,000 43,500 20,000 15,000 313,500 35,000 35,000 30,000 \$2,891,000 144,550 \$3,035,550	159,000 D 1,900,000 1,900,000 165,000 165,000 165,000 150,000

	DESCRIPTION			Rate I	Units		COMPLETION	TOTAL WILL COST
309 401	Production Casing		1 5	- 1	0		275,000	\$275,00
309 402	Tubing		3	-	0	1000	40,000	40,00
309 403	Subs Flt Egpt Centraliz	ers Etc						
309 404	Sub Surface Equipmen	t				TE STATE OF THE ST	30,000	(3(0),0)0
309 405	Xmas Tree Upper Sect						60,000	60,00
309 406	Outside Operated Other	er					CENTERAL ATTICKERS	
	SUB-TOTAL TANGIBLE COM						\$405,000	\$405,000
	SUB-TOTAL TANGIBLE COST	S				\$405,000	\$405,000	\$810,000
	SUB-TOTAL INTANGIBLE &	ANGIBLE COSTS				\$2,978,917	\$3,440,550	\$6,419,46
	PRODUCTION EQ	UIPMENT COSTS				ELECTRIC PRODUCTION OF THE PRO		Taring the Carry Ligarity S.
							COMPLETION	TOTAL WELL COST
311 501	Artificial Lift Equipmen	t					\$15,000	315,00
311 502	Prime Mover Electric G							
311 503	Sales Gathering Line						CANTAL BASE SALE	
311 504	Separation Equipment						50,000	50,00
311 505	Oll Treating Heating E	uipment						
311 506	Gas Treating Dehy Equ	ipment						
311 507	Tanks						70,000	70,00
311 508	Meters						55,000	55,00
311 509	Electrical Equip Install						20,000	20,00
311 510	Compressor					Section 1. The table as visit in the section of the	Constitution of the second	
311 511	Flowlines						50,000	50,00
311 512	Labor						130,000	130,00
311 513	Trucks Hauling Transp	redion				en de la companya de		
311 514	Buildings						10,000	10,00
311 515	Roads & Locations Manifolds & Headers						15,000	15,00
311 516 311 517	Chemical Injection Sys	tem					Alexander Charles Charles	
311 518	Piping & Valves	CEIT				200	50,000	50,00
311 519	Welding						NAME OF TAXABLE PARTY.	
311 520	Surface Pumps					Color Color Color Color Color Color	5,000	5,00
311 521	Filters							
311 522	Outside Operated Other	r						
311 523	Environmental & Safet	V					10,000	10,00
311 524	Engineering Supervision						30,000	30,00
311 525	Surface Facilities					2.4 (1.5 (1.5 (1.5 (1.5 (1.5 (1.5 (1.5 (1.5	15,000	15,00
	SUB-TOTAL PRODUCTION	QUIPMENT					\$525,000	\$525,00
	SUB-TOTAL INTANGIBLE C					\$2,573,917	\$3,035,550	\$5,609,46
	SUB-TOTAL TANGIBLE CO			-		\$405,000	\$405,000	\$810,00
	SOB-TOTAL TANGIBLE CO.							
		GRAND TOT				\$2,978,917	\$3,965,550	\$6,944,46
		LESS OUTS!	DE INTERESTS			\$2,978,917	\$3,965,550	\$6,944,46
		TOYAL NET	COSTS			\$0	\$0	
	erator: Costs shown on this for will be required to perform the	rm are estimates only. Nonop e proposed operation.	erators should not co	ensider thes	e estimates	es establishing any limit		
ITIORIES WINET			DATE			GROSS AFE AMOUNT - D	BY HOLE	\$2,978,91
						NET DRYHOLE AFE AMOU		42,370,33
EPARED BY								
EPARED BY			DATE					
			DATE			NET ASSET TRANSFERS		
EPARED BY						CASH OUTLAY THIS AFE		3
EPARED BY			DATE					
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PROVED						CASH OUTLAY THIS AFE		
PROVED			DATE			CASH OUTLAY THIS AFE PREVIOUS AFE'S ISSUED		
PROVED	WORKING INTER	EST APPROVAL	DATE			CASH OUTLAY THIS AFE PREVIOUS AFE'S ISSUED		
EPARED BY	WORKING INTER		DATE			CASH OUTLAY THIS AFE PREVIOUS AFE'S ISSUED		
PROVED	WORKING INTER	IEST APPROVAL WORKING INTERE	DATE			CASH OUTLAY THIS AFE PREVIOUS AFE'S ISSUED TOTAL CASH OUTLAY		
PARED BY			DATE			CASH OUTLAY THIS AFE PREVIOUS AFE'S ISSUED TOTAL CASH OUTLAY		
PARED BY			DATE			CASH OUTLAY THIS AFE PREVIOUS AFE'S ISSUED TOTAL CASH OUTLAY		

ESTIMATE OF COSTS AND AUTHORIZATION FOR EXPENDITURE (AFE)

	Trucker Fed COM #701H		BUD YEAR		DATE	January 22, 2018	
AFE NO.	Hat Mesa Ri	EGION	Delaware		SUPPLEMENT NO. LEGAL:	21S 33E	
OPERATOR		ELL NO.	701H		W.I.		
OBJECTIVE		STATE	NM		MD/TVD	16,750'/11,875'	
	ROJECT START DATE: 3Q2018 1: Drill a 4600' lateral in the Wolfcamp and frac with 3:	3 stanes. Ass	umes 4 string	design			
DESCRIPTION	. Din a 1000 lateral al die Holicalip and liet Holi S.	J stages, Ass	dilles 4 suring	design.			
Takk make the	INTANGIBLE DRILLING COSTS						
ACCT.	DESCRIPTION		Rate	Units	DRYHOLE *145 DOG		TOTAL WELL COST \$145,000
8305 101 8305 102	Rig Move - MIRU, RDMO				\$145,000 \$100,000		100,000
8305 103	Rig Contractor-Daywork/FT		\$ 20,000	27	\$540,000	Compared to the Compared to th	540,000
8305 104 8305 105	Rig Contractor-Turnkey Power & Fuel				\$130,000		130,000
8305 106	Drill Fluids & Chemicals				\$160,000		160,000
8305 107 8305 108	Bits, Reamer, Stabilizers Cement & Cementing Services		-		\$95,000 \$180,000	AV STATE OF THE ST	95,000 (80,000
8305 109					\$54,000		54)(000)
8305 110					\$30,000		30,000
8305 111 8305 112	Csq Crews & Tools Directional Tools & Service				\$80,000 \$230,000	Something of search	230,000 230,000
8305 114	Form Eval - Well Testing DST - Coring, Sampli	Inq			公司的政治的	4(2-11/12) - C.C. 141	
8305 115 8305 116					\$20,000 \$300,000		20,000 300,000
8305 117	Contract Labor & Services				\$100,000		100,000
8305 118 8305 119	Wellsite Consultants Company Supervison & Labor		\$ 2,000	54	\$108,000		108,000
8305 120	Transportation				\$15,000	A Rest Belleville True	15,000
8305 121	Mud, Cuttings & Water Disposal		1.9243	16,750	\$100,000 \$32,232		100,000
8305 122 8305 123	Insurance Overhead		1.9243	10,730	575,000		25,000
8305 124	Water & Water Well				\$25,000		25,000
8305 125 8305 126	Unanticipated MirExp (Fishing) Legal			-	\$50,000		50,000
8305 127	Outside Operated Other						0
8305 128 8305 129	Permits Environmental & Safety		-	-	\$10,000 \$20,000		10,000
8305 130	Plugging						0
030F 100	SUBTOTAL CONTINGENCY (%) 10.00%			-	\$2,549,232 254,923		\$2,549,232 254,923
8305 199	SUB-TOTAL INTANGIBLE DRILLING COSTS				\$2,804,155		\$2,804,155
at the first of the second	INTANGIBLE COMPLETION COSTS			1			
							などの個人とは内容をなってあるものできまってもよりからなった。
ACCT.	DESCRIPTION		Rate	Units		COMPLETION	TOTAL WELL COST
8306 201	Location & Cleanup		Rate	Units		\$10,000	\$10,000
8306 201 8306 202	Location & Cleanup Power & Fuel		Rate	Units		\$10,000 10,000	\$10,000 10,000
8306 201 8306 202 8306 203 8306 204	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers		Rate	Units		\$10,000	\$10,000 10,000 45,000
8306 201 8306 202 8306 203 8306 204 8306 205	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs		Rate	Units		\$10,000 10,000 45,000	\$10,000 10,000 45,000 0
8306 201 8306 202 8306 203 8306 204	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers		Rate	Units		\$10,000 10,000	\$10,000 \$10,000 \$45,000 0 0 159,000
8306 201 8306 202 8306 203 8306 204 8306 205 8306 206 8306 207 8306 208	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Sycs Logging & Perforation Sycs Csg Crews & Tools-Drive Hammer Directional Tools & Sycs		Rate	Units		\$10,000 10,000 45,000	\$10,000 10,000 45,000 0 0 159,000 0
8306 201 8306 202 8306 203 8306 204 8306 205 8306 205 8306 207 8306 208 8306 208	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac		Rate	Units		\$10,000 10,000 45,000	\$10,000 \$10,000 \$45,000 0 0 159,000
8306 201 8306 202 8306 203 8306 204 8306 205 8306 205 8306 207 8306 208 8306 209 8306 209 8306 210	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection		Rate	Units		\$10,000 10,000 45,000 159,000 2,000,000	\$10,000 10,000 25,000 0 0 159,000 0 0 0 7,000,000 0 0
8306 201 8306 202 8306 203 8306 204 8306 205 8306 206 8306 207 8306 208 8306 209 8306 211 8306 211	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Stimulatin Acid Frac Tubular Inspection Equipment Rentals		Rate	Units		\$10,000 10,000 45,000	\$10,000 \$10,000 \$25,006 \$0 \$0 \$150,000 \$0 \$2,000,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
8306 201 8306 202 8306 203 8306 203 8306 205 8306 205 8306 207 8306 207 8306 209 8306 210 8306 211 8306 211 8306 213	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Cog Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant		Rate	Units		\$10,000 10,000 45,000 159,000 2,000,000	\$10,000 10,000 25,000 0 0 159,000 0 0 0 159,000 0 0 159,000 0 0 159,000 0 0 0 0 0 0 0 159,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8306 201 8306 202 8306 203 8306 203 8306 205 8306 206 8306 207 8306 207 8306 211 8306 211 8306 212 8306 213 8306 213	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Sycs Logging & Perforation Sycs Logging & Perforation Sycs Csg Crews & Tools & Sycs Formation Stimulatin Acid Frac Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Eguipment Rentals Contract Labor & Services Weilsite Consultant Company Supervision & Labor					\$10,000 10,000 45,000 159,000 2,000,000 165,000 43,500	\$10,000 \$10,000 \$25,000 \$0 \$159,000 \$0 \$2,000,000 \$0 \$155,000 \$0 \$155,000 \$0 \$155,000 \$0 \$155,000 \$0 \$155,000 \$0 \$155,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
8306 201 8306 202 8306 203 8306 203 8306 205 8306 205 8306 207 8306 207 8306 209 8306 210 8306 211 8306 211 8306 213	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Cog Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant					\$10,000 10,000 45,000 159,000 2,000,000	\$10,000 10,000 25,000 0 0 159,000 0 0 0 159,000 0 0 159,000 0 0 159,000 0 0 0 0 0 0 0 159,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8306 201 8306 202 8306 203 8306 204 8306 205 8306 205 8306 207 8306 208 8306 208 8306 208 8306 210 8306 211 8306 211 8306 213 8306 215 8306 215 8306 215 8306 215 8306 215 8306 215 8306 215 8306 216	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Weilsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Jinsurance					\$10,000 10,000 45,000 159,000 2,000,000 165,000 43,500 20,000	\$10,000 \$10,000 \$25,000 \$0 \$0 \$159,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
8306 201 8306 202 8306 203 8306 204 8306 205 8306 205 8306 207 8306 207 8306 209 8306 210 8306 211 8306 211 8306 212 8306 213 8306 213 8306 213 8306 213 8306 213 8306 215 8306 215	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Egulpment Rentals Contract Labor & Services Weilsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal					\$10,000 10,000 45,000 159,000 2,000,000 165,000 43,500 20,000	\$10,000 \$10,000 \$2,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
8306 201 8306 203 8306 203 8306 203 8306 205 8306 206 8306 207 8306 208 8306 207 8306 210 8306 211 8306 212 8306 214 8306 215 8306 216 8306 216 8306 217 8306 218 8306 217 8306 218 8306 218	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticloated MaiExp Fishing					\$10,000 10,000 45,000 159,000 2,000,000 165,000 43,500 20,000 15,000	\$10,000 \$10,000 \$25,000 \$0 \$0 \$159,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
8306 201 8306 203 8306 203 8306 204 8306 205 8306 206 8306 207 8306 207 8306 207 8306 211 8306 211 8306 212 8306 212 8306 214 8306 214 8306 216 8306 216 8306 217 8306 218 8306 218	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Egulpment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well					\$10,000 10,000 45,000 159,000 2,000,000 165,000 43,500 20,000 15,000 313,500 63,500 35,000	\$10,000 10,000 25,000 0 0 159,000 0 0 0 0 15,000 0 15,000 0 20,000 15,000 0 0 15,000 0 0 0 0 0 0 0 0 0 0 0 0
8306 201 8306 202 8306 203 8206 203 8206 203 8206 203 8306 205 8306 205 8306 205 8306 206 8306 206 8306 206 8306 207 8306 210 8306 210 8306 210 8306 212 8306 213 8306 22 8306 22 8306 22 8306 22 8306 22 8306 22 8306 22 8306 22 8306 22 8306 22	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Cog Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticloated MajExp Fishing Coll Tubing Services Misc Supplies & Materials Flowback Testing					\$10,000 10,000 45,000 159,000 2,000,000 165,000 20,000 15,000 313,500 63,500 35,000 76,500	\$10,000 10,000 25,000 0 159,000 0 0 159,000 0 0 155,000 15,000 0 15,000 0 15,000 0 0 15,000 0 0 15,000 0 0 0 0 0 0 0 0 0 0 0 0
8306 201 8306 202 8306 203 8306 204 8306 205 8306 206 8306 207 8306 206 8306 207 8306 207 8306 211 8306 211 8306 211 8306 212 8306 212 8306 214 8306 215 8306 216 8306 217 8306 216 8306 217 8306 217 8306 218 8306 217 8306 218 8306 217 8306 218 8306 218 8306 218 8306 218 8306 218 8306 218 8306 218 8306 218 8306 228 8306 228 8306 221 8306 222 8306 222	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stellulath Acid Frac Formation Evaluation Tubular Inspection Egulpment Rentals Contract Labor & Services Weilsite Consultant Company Supervision & Labor Transportation Med Cuttings & Water Disposal Insurance Overhead Water & Water Weil Unanticloated MaiExp Fishing Coll Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits					\$10,000 10,000 45,000 159,000 2,000,000 2,000,000 43,500 20,000 15,000 313,500 63,500 35,000 76,500 5,000	\$10,000 \$10,000 \$25,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
8306 201 8306 202 8306 203 8306 203 8306 203 8306 203 8306 204 8306 205 8306 207 8306 205 8306 207 8306 205 8306 211 8306 212 8306 212 8306 212 8306 212 8306 213 8306 214 8306 214 8306 213 8306 214 8306 213 8306 214 8306 213 8306 214 8306 213 8306 218 8306 218 8306 223 8306 23 8306 23	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Egulpment Rentals Contract Labor & Services Weilsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Weil Unanticipated MalExp Fishing Coll Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging		5	0		\$10,000 10,000 45,000 159,000 2,000,000 165,000 20,000 15,000 313,500 63,500 76,500 5,000	\$10,000 \$10,000 \$25,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
8306 201 8306 202 8306 203 8308 203 8308 203 8308 205 8308 205 8308 205 8308 207 8308 208 8308 208 8308 208 8308 208 8308 208 8308 210 8308 210 8308 212 8308 213 8308 223 8308 224	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementling Svcs Logging & Perforation Svcs Cog Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Eguipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Miss Supplies & Materials Flowback Testing Legal & Permits Friowback Testing Legal & Permits Friowback Testing Legal & Permits Friowback Testing Legal & Permits					\$10,000 10,000 45,000 159,000 2,000,000 165,000 20,000 15,000 313,500 63,500 76,500 5,000	\$10,000 \$10,000 \$25,000 \$0 \$0 \$159,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
8306 201 8306 202 8306 203 8306 203 8306 203 8306 204 8206 205 8306 205 8306 207 8306 206 8306 207 8306 208 8306 210 8306 210 8306 211 8306 212 8306 213 8306 213 8306 213 8306 213 8306 213 8306 213 8306 213 8306 223 8306 223	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Stimulath Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Weilsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Weil Unanticloated MeilExp Fishing Coll Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plucquing Completion Rig Completion Rig		5	0		\$10,000 10,000 45,000 159,000 2,000,000 43,500 43,500 20,000 15,000 313,500 63,500 76,500 5,000 30,000 \$2,991,000	\$10,000 10,000 25,000 0 159,000 0 0 0 0 155,000 10 10 10 10 10 10 10 10 10
8306 201 8306 202 8306 203 8306 203 8306 203 8306 203 8306 204 8306 205 8306 207 8306 205 8306 207 8306 205 8306 211 8306 212 8306 212 8306 212 8306 212 8306 213 8306 214 8306 214 8306 214 8306 214 8306 214 8306 214 8306 218 8306 218 8306 218 8306 218 8306 218 8306 223 8306 23 8306 23	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coll Tubing Services Miss Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig Subrotal Completion Rig Subrotal Completion Rig Subrotal Subrotal Completion Rig Subrotal Contract		5	0		\$10,000 10,000 45,000 159,000 2,000,000 165,000 20,000 15,000 313,500 63,500 35,000 76,500 5,000 30,000 \$2,991,000 149,550	\$10,000 10,000 10,000 25,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8306 201 8306 202 8306 203 8306 203 8306 203 8306 204 8206 205 8306 205 8306 207 8306 206 8306 207 8306 208 8306 210 8306 210 8306 211 8306 212 8306 213 8306 213 8306 213 8306 213 8306 213 8306 213 8306 213 8306 223 8306 223	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Sycs Logging & Perforation Sycs Logging & Perforation Sycs Csg Crews & Tools-Drive Hammer Directional Tools & Sycs Formation Stimulatin Acid Frac Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Eguipment Rentals Contract Labor & Services Weilsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Weil Unanticipated MajExp Fishing Coll Tubing Services Miss Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig Subtotral CONTINGENCY (%) 5.00% Sub-TOTAL INTANGIBLE COMPLETION COSTS		5	0		\$10,000 10,000 45,000 159,000 2,000,000 43,500 43,500 20,000 15,000 313,500 35,000 76,500 5,000 30,000 \$2,991,000 149,550 \$3,140,550	\$10,000 10,000 10,000 245,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8306 201 8306 202 8306 203 8306 203 8306 203 8306 204 8206 205 8306 205 8306 207 8306 206 8306 207 8306 208 8306 210 8306 210 8306 212 8306 213 8306 213 8306 213 8306 213 8306 213 8306 213 8306 213 8306 213 8306 223 8306 223	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coll Tubing Services Miss Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig Subrotal Completion Rig Subrotal Completion Rig Subrotal Subrotal Completion Rig Subrotal Contract		5	0	\$2,804,155	\$10,000 10,000 45,000 159,000 2,000,000 165,000 20,000 15,000 313,500 63,500 35,000 76,500 5,000 30,000 \$2,991,000 149,550	\$10,000 10,000 10,000 25,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8306 201 8306 202 8306 203 8306 203 8306 203 8306 204 8206 205 8306 205 8306 207 8306 206 8306 207 8306 208 8306 210 8306 210 8306 212 8306 213 8306 213 8306 213 8306 213 8306 213 8306 213 8306 213 8306 213 8306 223 8306 223	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Stabulatin Acid Frac Formation Evaluation Tubular Inspection Egulpment Rentals Contract Labor & Services Weilsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Weil Unanticloated MaiExp Fishing Coll Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Pluoging Completion Rig SubTOTAL CONTINGENCY (%) SUB-TOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE COMPLETION COSTS		5	0		\$10,000 10,000 45,000 159,000 2,000,000 43,500 43,500 20,000 15,000 313,500 35,000 76,500 5,000 30,000 \$2,991,000 149,550 \$3,140,550	\$10,000 10,000 10,000 10,000 155,000 155,000 10,000 155,000 15
8306 201 8306 202 8306 203 8306 203 8306 204 8306 205 8306 205 8306 207 8306 207 8306 207 8306 207 8306 210 8306 210 8306 213 8306 213 8306 213 8306 213 8306 213 8306 213 8306 213 8306 213 8306 223 8306 224 8306 228	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Weilsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Weil Unanticipated MalExp Fishing Coll Tubing Services Miss Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig Subtotal Subto		\$ -	O Units	\$2,804,155 DAYHOLE \$20,000	\$10,000 10,000 45,000 159,000 2,000,000 43,500 43,500 20,000 15,000 313,500 35,000 76,500 5,000 30,000 \$2,991,000 149,550 \$3,140,550	\$10,000 10,000 10,000 32,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8306 201 8306 202 8306 203 8306 203 8306 203 8306 204 8306 205 8306 205 8306 207 8306 208 8306 207 8306 210 8306 210 8306 211 8306 213 8306 213 8306 213 8306 213 8306 213 8306 213 8306 213 8306 213 8306 228 8306 228 8306 228 8306 228 8306 228 8306 228 8306 228 8306 228 8306 228 8306 228	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Estimulatn Acid Frac Formation Estimulatn Acid Frac Formation Estimulatn Acid Frac Formation Estimulatn Acid Frac Contract Labor & Services Weilsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Weil Unanticipated MalExp Fishing Coll Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig SubTOTAL CONTINGENCY (%) SUBTOTAL CONTINGENCY (%) SUB-TOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE CONTINGENCY TANGIBLE DRILLING COSTS DESCRIPTION Drive Pipe Conductor Casing Surface Cosing		S - Rate S - S -	Units O O	\$2,804,155 DRYHOLE \$20,000 \$50,000	\$10,000 10,000 45,000 159,000 2,000,000 43,500 43,500 20,000 15,000 313,500 35,000 76,500 5,000 30,000 \$2,991,000 149,550 \$3,140,550	\$10,000 10,000 10,000 25,000 0 0 0 159,000 155,000 0 155,000
8306 201 8306 202 8306 203 8306 203 8306 203 8306 203 8306 205 8306 205 8306 207 8306 205 8306 207 8306 205 8306 207 8306 207	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Sycs Logging & Perforation Sycs Logging & Perforation Sycs Csq Crews & Tools-Drive Hammer Directional Tools & Sycs Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Eguipment Rentals Contract Labor & Services Wellisite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MalExp Fishing Coll Tubing Services Miss Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugaing Completion Rig Subtrotal Intransible Completion Costs Sub-Total Intransible Completion Costs Sub-Total Intransible Costs TANGIBLE DRILLING COSTS DESCRIPTION Drive Pipe Conductor Casing Surface Casing Intermediate Casing Intermediate Casing		S -	0 Units 0 0	\$2,804,155	\$10,000 10,000 45,000 159,000 2,000,000 43,500 43,500 20,000 15,000 313,500 35,000 76,500 5,000 30,000 \$2,991,000 149,550 \$3,140,550	\$10,000 10,000 10,000 10,000 25,000 0 155,000 0 155,000 0 155,000 150,000 0
8306 201 8306 202 8306 203 8306 203 8306 203 8306 204 8306 205 8306 205 8306 207 8306 208 8306 207 8306 210 8306 210 8306 211 8306 213 8306 213 8306 213 8306 213 8306 213 8306 213 8306 213 8306 213 8306 228 8306 228 8306 228 8306 228 8306 228 8306 228 8306 228 8306 228 8306 228 8306 228	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Logging & Perforation Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MalExp Fishing Coll Tubing Services Miss Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig SUBTOTAL CONTINGENCY (%) SUB-TOTAL INTANGIBLE COMPLETION COSTS DESCRIPTION Drive Pipe Conductor Casing Surface Casing Intermediate Casing Intermediate Casing Liner Casing Subs Fit Egot Centralizers Etc		S -	Units O O	\$2,804,155 BRYHOLE \$20,000 \$550,000 \$210,000 \$150,000	\$10,000 10,000 45,000 159,000 2,000,000 43,500 43,500 20,000 15,000 313,500 35,000 76,500 5,000 30,000 \$2,991,000 149,550 \$3,140,550	\$10,000 310,000 310,000 325,000 0 0 0 0 0 0 0 0 0 0 155,000 0 0 0 0 0 155,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8306 201 8306 202 8306 203 8306 203 8306 203 8306 203 8306 204 8306 205 8306 207 8306 207 8306 207 8306 212 8306 213 8306 213 8306 213 8306 213 8306 214 8306 217 8306 218 8306 224 8306 228 8306 230 8306 230	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Sycs Logging & Perforation Sycs Logging & Perforation Sycs Logging & Perforation Sycs Cog Crews & Tools-Drive Hammer Directional Tools & Sycs Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MalExp Fishing Coll Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig Subrotal, Intansigne Completion Costs Sub-Total, Intansigne Costs TANGIBLE DRILLING COSTS DESCRIPTION Drive Pipe Conductor Casing Surface Casing Liner Casing Liner Casing Liner Casing Subs Pit Egot Centralizers Etc Casinghead Drilling Spool		S -	0 Units 0 0	\$2,804,155 DRYHOLE \$20,000 \$50,000 \$510,000 \$150,000	\$10,000 10,000 45,000 159,000 2,000,000 43,500 43,500 20,000 15,000 313,500 35,000 76,500 5,000 30,000 \$2,991,000 149,550 \$3,140,550	\$10,000 10,000 10,000 32,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8306 201 8306 202 8306 203 8305 203 8305 203 8306 204 8306 205 8306 205 8306 207 8306 208 8306 207 8306 210 8306 213 8306 223 8306 233 8306 233 8308 304 8308 304	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Logging & Perforation Svcs Cog Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulath Acid Frac Formation Estimulath Acid Frac Contract Labor & Services Weilsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Weil Unanticipated MaiExp Fishing Coll Tubing Services Musc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig SubTOTAL CONTINGENCY (%) SUBTOTAL CONTINGENCY (%) SUB-TOTAL INTANGIBLE COMPLETION COSTS SUB-TOTAL INTANGIBLE COSTS TANGIBLE DRILLING COSTS DESCRIPTION Drive Pipe Conductor Casing Surface Casing Liner Casing Liner Casing Subs Fit Egot Centralizers Etc Casinghead Drilling Spool		S -	0 Units 0 0	\$2,804,155 BRYHOLE \$20,000 \$550,000 \$210,000 \$150,000	\$10,000 10,000 45,000 159,000 2,000,000 43,500 43,500 20,000 15,000 313,500 35,000 76,500 5,000 30,000 \$2,991,000 149,550 \$3,140,550	\$10,000 310,000 310,000 325,000 0 0 0 0 0 0 0 0 0 0 155,000 0 0 0 0 0 155,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
8306 201 8306 202 8306 203 8306 203 8306 203 8306 203 8306 204 8306 205 8306 207 8306 207 8306 207 8306 212 8306 213 8306 213 8306 213 8306 213 8306 214 8306 217 8306 218 8306 224 8306 228 8306 230 8306 230	Location & Cleanup Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Sycs Logging & Perforation Sycs Logging & Perforation Sycs Logging & Perforation Sycs Cog Crews & Tools-Drive Hammer Directional Tools & Sycs Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MalExp Fishing Coll Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Completion Rig Subrotal, Intansigne Completion Costs Sub-Total, Intansigne Costs TANGIBLE DRILLING COSTS DESCRIPTION Drive Pipe Conductor Casing Surface Casing Liner Casing Liner Casing Liner Casing Subs Pit Egot Centralizers Etc Casinghead Drilling Spool		S -	0 Units 0 0	\$2,804,155 DRYHOLE \$20,000 \$50,000 \$210,000 \$1150,000	\$10,000 10,000 45,000 159,000 2,000,000 43,500 43,500 20,000 15,000 313,500 35,000 76,500 5,000 30,000 \$2,991,000 149,550 \$3,140,550	\$10,000 10,000 10,000 25,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

EXHIBIT 24

Visit.		TANGIBLE COMPLETION COST	\$				1. Safation - A.	
AC	CT.	DESCRIPTION		Rate	Units		COMPLETION	STOTAL WILLIAMS
8309	401	Production Casing		\$ -	0		400,000	\$400,000
8309	402	Tubing		\$ -	0		45,000	45,900
8309	403	Subs Flt Egpt Centralizers Etc					STATE OF THE STATE OF THE STATE OF	0
8309	404	Sub Surface Equipment					30,000	30,000
8309	405	Xmas Tree Upper Section			-		60,000	(60,000)
8309	406	Outside Operated Other			-	PES 2000 200 200 200 200 200 200 200 200 2		0
-	-	SUB-TOTAL TANGIBLE COMPLETION COSTS					\$535,000	\$535,000
		SUB-TOTAL TANGIBLE COSTS				\$490,000	\$535,000	
-		SUB-TOTAL INTANGIBLE & TANGIBLE COSTS						\$1,025,000
5.346.0	Seine P. S.	PRODUCTION EQUIPMENT COST	e was			\$3,294,155	\$3,675,550	\$6,969,705
	A STATE OF	PRODUCTION EQUIPMENT COST	3		-	Horse-country in the control of the	The second second	
8311	501	Artificial Lift Equipment					COMPLETION	TOTAL WILL COST
8311	502	Prime Moyer Electric Gas				N. C.	\$15,000	\$15,000
8311	503	Sales Gathering Line					ACCEPTANT PERSONS	0
8311	504	Separation Equipment					50,000	50,000
8311	505	Oil Treating Heating Equipment					18 24 and 18 Control 18 Control	0
8311	506	Gas Treating Dehy Equipment					PARKETHAN CO. CO. CO.	00
8311	507	Tanks					70,000	70,600
8311	508	Meters					55,000	55,000
8311	509	Electrical Equip Install Compressor					20,000	20,000
8311	511	Flowlines					50,000	50,000
6311	512	Labor					130,000	130,000
8311	513	Trucks Hauling Transportation					EXTENSED IN SOCIETY OF THE	n,
6311	514	Buildings					TELESCOPE VIOLENCE	
8311	515	Roads & Locations					10,000	10,000
8311	516	Manifolds & Headers					15,000	15,000
6311	517	Chemical Injection System					TO A THE PART OF T	The state of the s
8311	518	Piping & Valves					50,000	50,000
8311	519	Welding					E 000	0
8311	520 521	Surface Pumps Filters	-			The street of th	5,000	5,000
8311	522	Outside Operated Other					175-25-20-20-20-20-20-20-20-20-20-20-20-20-20-	0
6311	523	Environmental & Safety				7.00	10,000	10,000
8311	524	Engineering Supervision				State of the state	30,000	30,000
8311	525	Surface Facilities					15,000	15,000
		SUB-TOTAL PRODUCTION EQUIPMENT					\$525,000	\$525,000
		SUB-TOTAL INTANGIBLE COSTS (PAGE 1)				\$2,804,155	\$3,140,550	\$5,944,705
	W.U.T.	SUB-TOTAL TANGIBLE COSTS (PAGE 2)				\$490,000	\$535,000	\$1,025,000
			TOTAL			\$3,294,155	\$4,200,550	\$7,494,705
				-				
			OUTSIDE INTERESTS			\$3,294,155	\$4,200,550	\$7,494,705
-		TOTAL	NET COSTS			\$0	\$0	\$0
Notice to	Nonope	rator: Costs shown on this form are estimates only.	Nonoperators should	not consider	these estimate	es as establishing any limit	1	
		will be required to perform the proposed operation.						
PREPARE	n av		DATE			GROSS AFE AMOUNT - DRY HOLE		\$3,294,155
- real parts	- 01							
			DATE			NET DRYHOLE AFE AMOUNT		\$0
APPROVE	D		DATE			NET ASSET TRANSFERS		\$0
						CASH OUTLAY THIS AFE		\$0
APPROVE	D		DATE			PREVIOUS AFE'S ISSUED		\$0
						TOTAL CASH OUTLAY		\$0
APPROVE	D		DATE					
		WORKING INTEREST APPROVAL						
		COMPANY WORKING IN	TEREST			APPROVED BY		DATE

EXHIBIT

ESTIMATE OF COSTS AND AUTHORIZATION FOR EXPENDITURE (AFE)

COST AFE N		Trucker Fed COM #703H	BUD YEAR	2018	SUPPLEMENT NO		
FIELD		Hat Mesa REGION	Delaware		LEGA		
OPERA		Ascent Energy, LLC WELL N			w.	I.	
OBJEC		Wolfcamp STATE	NM		MD/TV	16,740'/11,850'	
		ROJECT START DATE: 3Q2018 Drill a 4600' lateral in the Wolfcamp and frac with 33 stage	s. Assumes 4 string	design.			
_	1000	INTANGIBLE DRILLING COSTS	785 NO 1 - 12	-	Harris To the	7.10	
A	ст.	DESCRIPTION	Rate	Units	DRYHOLE		Solow Williams
8305	101	Location Cleanup & Damages			\$145,000		4)(45)000
8305 8305	102	Rig Move - MIRU, RDMO Rig Contractor-Daywork/FT	\$ 20,000	27	\$100,000 \$540,000		100,000 540,000
8305	104	Riq Contractor-Turnkey			La Company of the Com		Ü
8305 8305	105 106	Power & Fuel Drill Fluids & Chemicals		-	\$130,000 \$160,000		130,000
8305	107	Bits, Reamer, Stabilizers			\$95,000		95383
8305 8305	108	Cement & Cementing Services Mud Logging		-	\$180,000 \$54,000		190,000 56,000
8305	110	Open Hole Logging			\$30,000		30,800
8305	111	Csq Crews & Tools Directional Tools & Service			\$80,000 \$230,000		(90,000)
8305	114	Form Eval - Well Testing DST - Coring, Sampling			3,250,000		236 (600
8305	115	Tubular Inspection Equipment Rentals			\$20,000		10000
8305	117	Contract Labor & Services			\$300,000 \$100,000		300,600 100,000
8305	118	Wellsite Consultants	\$ 2,000	54	\$108,000		108000
8305 8305	119	Company Supervison & Labor Transportation			\$15,000		T 14,000
8305	121	Mud, Cuttings & Water Disposal	1.0343	46.750	\$100,000		1055000
8305 8305	122	Insurance Overhead	1.9243	16,750	\$32,232 \$25,000		92477 25.000
8305	124	Water & Water Well			\$25,000		1500
8305 6305	125	Unanticipated MirExp (Fishing) Legal			\$50,000		0. 50,900
6305	127	Outside Operated Other					
8305 8305	128	Permits Environmental & Safety		-	\$10,000 \$20,000		10,000 20,000
8305	130	Plugging					0
8305	199	SUBTOTAL CONTINGENCY (%) 19.00%			\$2,549,232		\$2,549,232 254,923
8303	199	SUB-TOTAL INTANGIBLE DRILLING COSTS			254,923 \$2,804,155		\$2,804,155
	56912	INTANGIBLE COMPLETION COSTS	2-112 - 2140		The same of the sa		Sales and the sales are
A	CT.	DESCRIPTION	Rate	Units		COMPLETION	TOP NEW YORK
8306	201	Location & Cleanup		-		\$10,000	70)000
8306	202	Power & Fuel				10,000	(0.900)
8306 8306	202 203 204	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers					10,000 15,000
8306 8306 8306	202 203 204 205	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs				10,000 45,000	10.660 45,600 0
8306 8306 8306 8306 8306 8306	202 203 204 205 206 207	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Cso Crews & Tools-Drive Hammer				10,000	10,000 25,000 0 0 (59,000
8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208	Power & Fuel Comp Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csq Crews & Tools-Drive Hammer Directional Tools & Svcs				10,000 45,000 159,000	10,660 45,600 0 10 159,000 0
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Cso Crews & Tools-Drive Hammer				10,000 45,000	10,000 25,000 0 0 (59,000
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cernent & Cementing Svcs Logqing & Perforation Svcs Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection				10,000 45,000 159,000 2,000,000	10,000 45,000 0 0 1,000 155,000 0 0 7,000,000 0 0
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logging & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation				10,000 45,000 159,000	10,560 45,600 0 0 (59,000 0 0 2,000,000
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211 212 213 214	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logqing & Perforation Svcs Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant	\$ -	0		10,000 45,000 159,000 2,000,000	0,000 45,000 0,000 159,000 0,000 2,000,900 0,000 0,
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211 212 213 214 215	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logqing & Perforation Svcs Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellisite Consultant Company Supervision & Labor	\$ -	0		10,000 45,000 159,000 2,000,000 165,000 43,500	10,000 35,000 10 159,000 0 7,000,000 0 155,000 155,000 155,000 155,000 155,000
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logqing & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulata Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttinas & Water Disposal	\$ -	0		10,000 45,000 159,000 2,000,000	10,000 \$5,000 0 159,000 0 2,000,000 0 1,000,000 0 1,000
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logqing & Perforation Svcs Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance	\$ -	0		10,000 45,000 159,000 2,000,000 165,000 43,500	0,000 \$5,000 1,000,000 0,000,000 0,000,000 0,000,00
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cernent & Cementing Svcs Logqing & Perforation Svcs Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Stellulation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Nud Cuttings & Water Disposal Insurance Overhead Water & Water Well	\$ -	0		10,000 45,000 159,000 2,000,000 165,000 43,500	0,000 45,000 0 159,000 0 7,000,000 0 10 155,000 0 155,000 155,000 155,000 155,000 155,000 155,000 155,000 155,000 0 155,000 0 0 155,000 0 0 0 155,000 0 0 0 155,000 0 0 0 0 0 0 0 0 0 0 0 0
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 220	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logqing & Perforation Svcs Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatn Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellisite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MaiExp Fishing	\$ -	0		10,000 45,000 159,000 2,000,000 165,000 43,500 20,000 135,000	0,000 \$5,000 10 159,000 0 1,000,000 0 1,000,000 0 1,000,000 1,000,0
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 210 211 212 213 214 215 216 217 218 219 220 221 221 222 223	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cernent & Cementing Svcs Logqing & Perforation Svcs Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MaiExp Fishing Coil Tubing Services Miss Supplies & Materials	\$ -	0		10,000 45,000 159,000 2,000,000 43,500 20,000 15,000 313,500 35,000	0,000 45,000 15,000 15,000 0,000 1,000,000 0,000 1,000,000
8306 8308 8308 8308 8308 8308 8308 8308	202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 221 222 223 224	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logqing & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Nud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MaiExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Coil Tubing Services Misc Supplies & Materials Flowback Testing	\$ -	0		10,000 45,000 159,000 2,000,000 43,500 20,000 15,000 313,500 63,500 35,000 75,500	0,000 \$5,000 \$7,000
8306 8306 8308 8308 8308 8308 8308 8306 8306	202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cement & Cementing Svcs Logqing & Perforation Svcs Csq Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulata Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Mud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MajExp Fishing Coil Tubing Services Miss Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs	\$	0		10,000 45,000 159,000 2,000,000 43,500 20,000 15,000 313,500 35,000	10,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$15,00
8306 8306 8306 8306 8306 8306 8306 8306	202 203 204 205 206 207 208 209 210 211 213 214 215 216 217 218 220 221 222 222 222 222 224 225	Power & Fuel Compl Fluids & Chemicals Bits, Reamer, Stabilizers Cernent & Cernenting Svcs Logqing & Perforation Svcs Csg Crews & Tools-Drive Hammer Directional Tools & Svcs Formation Stimulatin Acid Frac Formation Stimulatin Acid Frac Formation Evaluation Tubular Inspection Equipment Rentals Contract Labor & Services Wellsite Consultant Company Supervision & Labor Transportation Nud Cuttings & Water Disposal Insurance Overhead Water & Water Well Unanticipated MaiExp Fishing Coil Tubing Services Misc Supplies & Materials Flowback Testing Legal & Permits Environmental & Safety Costs Plugging Plugging	3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	-11305-11		31,000 45,000 159,000 2,000,000 365,000 43,500 20,000 18,000 313,500 63,500 35,000 75,500	0,060 45,000 159,000 10,000,000 0,000 0,000 0,000 155,000 155,000 15,
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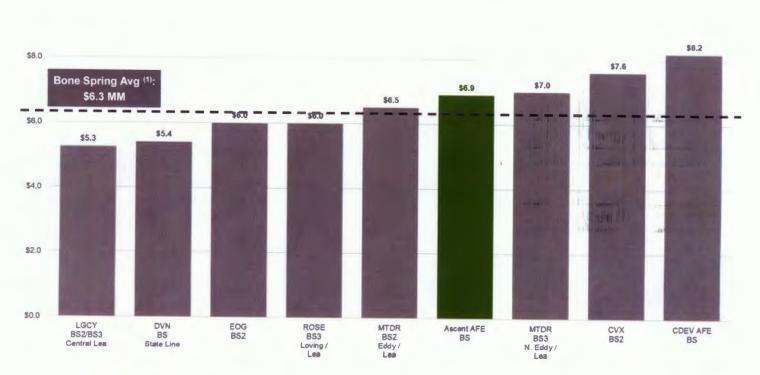
TANGIBLE COMPLETION COSTS ACCT. DESCRIPTION | 8309 | 401 | Production Casing | 8309 | 402 | Tubing | 8309 | 403 | Subs Ft Egpt Centralizers Etc | 8309 | 404 | Sub Surface Equipment | 8309 | 405 | Xmas Tree Upper Section | 8309 | 406 | Outside Operated Other 0 400,000 30,000 60,000 SUB-TOTAL TANGIBLE COMPLETION COSTS \$535,000 \$535,000 SUB-TOTAL TANGIBLE COSTS \$490,000 \$535,000 \$1,025,000 SUB-TOTAL INTANGIBLE & TANGIBLE COSTS

PRODUCTION EQUIPMENT COSTS \$3,294,155 \$3,675,550 \$6,969,705 COMPLETION \$15,000 8311 501 Artificial Lift Equipment 50,000 55,000 50,000 130,000 10,000 15,000 50,000 5,000 10.000 30,000 15,000 \$525,000 \$525,000 SUB-TOTAL PRODUCTION EQUIPMENT \$2,804,155 \$3,140,550 \$5,944,705 SUB-TOTAL INTANGIBLE COSTS (PAGE 1) \$490,000 \$535,000 \$1,025,000 SUB-TOTAL TANGIBLE COSTS (PAGE 2) \$3,294,155 \$4,200,550 \$7,494,705 GRAND TOTAL LESS OUTSIDE INTERESTS \$3,294,155 \$4,200,550 \$7,494,705 TOTAL NET COSTS \$0 \$0 \$0 erator: Costs shown on this form are estimates only. Nonoperators should not consider these estimates as establishing any limit nies which will be required to perform the proposed operation DATE GROSS AFE AMOUNT - DRY HOLE \$3,294,155 PREPARED BY NET DRYHOLE AFE AMOUNT \$0 DATE \$0 APPROVED NET ASSET TRANSFERS \$0 CASH OUTLAY THIS AFE DATE \$0 APPROVED PREVIOUS AFE'S ISSUED \$0 TOTAL CASH OUTLAY DATE APPROVED WORKING INTEREST APPROVAL WORKING INTEREST APPROVED BY DATE COMPANY

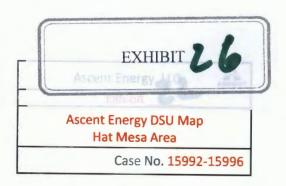
Delaware Basin D&C Cost Comparison – Bone Spring

D&C Cost (\$MM) - One Mile Laterals



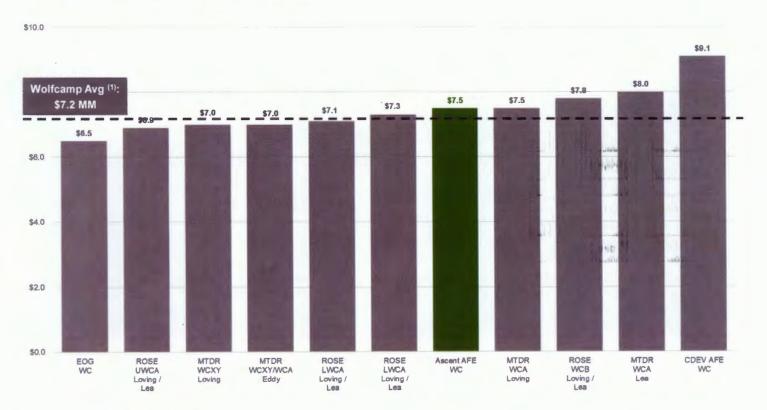


Source: Company investor presentations.
(1) Average excludes Ascent and CDEV data.

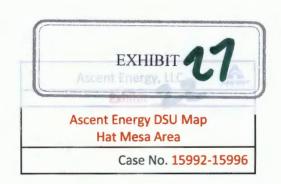


Delaware Basin D&C Cost Comparison – Wolfcamp

D&C Cost (\$MM) - One Mile Laterals



Source: Company investor presentations.
(1) Average excludes Ascent and CDEV data.



From: Gavin Smith [mailto:Gavin.Smith@cdevinc.com]

Sent: Tuesday, February 13, 2018 11:22 AM

To: Lee Zink < !zink@ascentenergy.us>

Cc: Ryan Parsley crparsley@ascentenergy.us; Aaron Tenenholz Aaron.Tenenholz@cdevinc.com

Subject: Special Hearing date

Lee,

As we discussed on the phone we are fine with moving forward and requesting a special hearing date on the week of March 12th. However, due to the timing we will both need to file our applications immediately and our recent well proposals will have been in your office for less than 30 days. We agree to move forward regardless as long as Ascent agrees to not assert that our wells were not effectively proposed due to the timing of the hearing. Centennial agrees to do the same for the proposals we received from Ascent on January 23rd if this is acceptable.

Thank you,

Gavin Smith | Landman Centennial Resource Development, Inc. 1001 17th Street, Suite 1800 Denver, CO 80202 P: (720) 499-1474 C: (720) 576-6508