

**BEFORE THE OIL CONSERVATION DIVISION  
EXAMINER HEARING MAY 16, 2024**

**Case No. 24376**

Emerald Fed Com #301H  
Emerald Fed Com #302H  
Emerald Fed Com #303H  
Emerald Fed Com #304H  
Emerald Fed Com #305H  
Emerald Fed Com #306H  
Emerald Fed Com #501H  
Emerald Fed Com #502H  
Emerald Fed Com #513H  
Emerald Fed Com #514H  
Emerald Fed Com #515H  
Emerald Fed Com #516H  
Emerald Fed Com #601H  
Emerald Fed Com #602H  
Emerald Fed Com #603H  
Emerald Fed Com #604H  
Emerald Fed Com #605H  
Emerald Fed Com #606H

Lea County, New Mexico



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

**APPLICATION OF AVANT OPERATING, LLC FOR  
COMPULSORY POOLING AND APPROVAL OF  
NON-STANDARD SPACING UNIT, LEA COUNTY,  
NEW MEXICO**

**CASE NO. 24376**

**HEARING PACKAGE**  
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- Certified Mail Receipts

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<b>COMPULSORY POOLING APPLICATION CHECKLIST</b>	
<b>ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS</b>	
<b>Case:</b>	<b>APPLICANT'S RESPONSE</b>
<b>Date</b>	
Applicant	<b>Avant Operating, LLC</b>
Designated Operator & OGRID (affiliation if applicable)	<b>330396</b>
Applicant's Counsel:	Miguel Suazo, Beatty & Wozniak, P.C.
Case Title:	Application of Avant Operating, LLC FOR Compulsory Pooling and Approval of Non-Standard Spacing Unit, Lea County, New Mexico
Entries of Appearance/Intervenors:	Permian Resources Corporation, Chisholm Energy Operating, Inc., and Earthstone Permian LLC
Well Family	Emerald Fed Com
<b>Formation/Pool</b>	
Formation Name(s) or Vertical Extent:	Bone Spring
Primary Product (Oil or Gas):	Oil
Pooling this vertical extent:	Entire Formation
Pool Name and Pool Code:	Corbin; Bone Spring South (13160)
Well Location Setback Rules:	Statewide Rules
<b>Spacing Unit</b>	
Type (Horizontal/Vertical)	Horizontal
Size (Acres)	1,342.98 acres, more or less
Building Blocks:	Quarter-Quarter sections
Orientation:	South-North
Description: TRS/County	All of Section 31, T-18-S, R-233-E and all of Section 6, T-19-S, R-233-E, Lea County, NM
Standard Horizontal Well Spacing Unit (Y/N), If No, describe and is approval of non-standard unit requested in this application?	No. Applicant seeks approval of non-standard unit.
<b>Other Situations</b>	
Depth Severance: Y/N. If yes, description	No
Proximity Tracts: If yes, description	No
Proximity Defining Well: if yes, description	N/A
Applicant's Ownership in Each Tract	Exhibit C
<b>Well(s)</b>	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)	
Well #1	<b>Emerald Fed Com #301H Well (API No. Pending)</b> SHL: Lot 7 of Section 6, Township 19 South, Range 33 East, N.M.P.M. BHL: Lot 1 of Section 31, Township 18 South, Range 33 East, N.M.P.M.  Completion Target: Bone Spring Formation Well Orientation: South to North Completion Location: Standard
Well #2	<b>Emerald Fed Com #302H Well (API No. Pending)</b> SHL: Lot 7 of Section 6, Township 19 South, Range 33 East, N.M.P.M. BHL: Lot 1 of Section 31, Township 18 South, Range 33 East, N.M.P.M.  Completion Target: Bone Spring Formation Well Orientation: South to North Completion Location: Standard
Well #3	<b>Emerald Fed Com #501H Well (API No. Pending)</b> SHL: Lot 7 of Section 6, Township 19 South, Range 33 East, N.M.P.M. BHL: Lot 1 of Section 31, Township 18 South, Range 33 East, N.M.P.M.  Completion Target: Bone Spring Formation Well Orientation: South to North Completion Location: Standard
Well #4	<b>Emerald Fed Com #502H Well (API No. Pending)</b> SHL: Lot 7 of Section 6, Township 19 South, Range 33 East, N.M.P.M. BHL: Lot 1 of Section 31, Township 18 South, Range 33 East, N.M.P.M.  Completion Target: Bone Spring Formation Well Orientation: South to North Completion Location: Standard
Well #5	<b>Emerald Fed Com #601H Well (API No. Pending)</b> SHL: Lot 7 of Section 6, Township 19 South, Range 33 East, N.M.P.M. BHL: Lot 1 of Section 31, Township 18 South, Range 33 East, N.M.P.M.  Completion Target: Bone Spring Formation Well Orientation: South to North Completion Location: Standard

Well #6 <i>Received by OCD: 5/14/2024 3:01:41 PM</i>	<b>Emerald Fed Com #602H Well (API No. Pending)</b> SHL: Lot 7 of Section 6, Township 19 South, Range 33 East, N.M.P.M. BHL: Lot 1 of Section 31, Township 18 South, Range 33 East, N.M.P.M.  Completion Target: Bone Spring Formation Well Orientation: South to North Completion Location: Standard
Well #7	<b>Emerald Fed Com #303H Well (API No. Pending)</b> SHL: Lot 7 of Section 6, Township 19 South, Range 33 East, N.M.P.M. BHL: NE/4NW/4 (Unit C) of Section 31, Township 18 South, Range 33 East, N.M.P.M.  Completion Target: Bone Spring Formation Well Orientation: South to North Completion Location: Standard
Well #8	<b>Emerald Fed Com #513H Well (API No. Pending)</b> SHL: Lot 7 of Section 6, Township 19 South, Range 33 East, N.M.P.M. BHL: NE/4NW/4 (Unit C) of Section 31, Township 18 South, Range 33 East, N.M.P.M.  Completion Target: Bone Spring Formation Well Orientation: South to North Completion Location: Standard
Well #9	<b>Emerald Fed Com #603H Well (API No. Pending)</b> SHL: Lot 7 of Section 6, Township 19 South, Range 33 East, N.M.P.M. BHL: NE/4NW/4 (Unit C) of Section 31, Township 18 South, Range 33 East, N.M.P.M.  Completion Target: Bone Spring Formation Well Orientation: South to North Completion Location: Standard
Well #10	<b>Emerald Fed Com #304H Well (API No. Pending)</b> SHL: SE/4SE/4 (Unit P) of Section 6, Township 19 South, Range 33 East, N.M.P.M. BHL: NW/4NE/4 (Unit B) of Section 31, Township 18 South, Range 33 East, N.M.P.M.  Completion Target: Bone Spring Formation Well Orientation: South to North Completion Location: Standard
Well #11	<b>Emerald Fed Com #514H Well (API No. Pending)</b> SHL: SE/4SE/4 (Unit P) of Section 6, Township 19 South, Range 33 East, N.M.P.M. BHL: NW/4NE/4 (Unit B) of Section 31, Township 18 South, Range 33 East, N.M.P.M.  Completion Target: Bone Spring Formation Well Orientation: South to North Completion Location: Standard
Well #12	<b>Emerald Fed Com #604H Well (API No. Pending)</b> SHL: SE/4SE/4 (Unit P) of Section 6, Township 19 South, Range 33 East, N.M.P.M. BHL: NW/4NE/4 (Unit B) of Section 31, Township 18 South, Range 33 East, N.M.P.M.  Completion Target: Bone Spring Formation Well Orientation: South to North Completion Location: Standard
Well #13	<b>Emerald Fed Com #305H Well (API No. Pending)</b> SHL: SE/4SE/4 (Unit P) of Section 6, Township 19 South, Range 33 East, N.M.P.M. BHL: NE/4NE/4 (Unit A) of Section 31, Township 18 South, Range 33 East, N.M.P.M.  Completion Target: Bone Spring Formation Well Orientation: South to North Completion Location: Standard
Well #14	<b>Emerald Fed Com #306H Well (API No. Pending)</b> SHL: SE/4SE/4 (Unit P) of Section 6, Township 19 South, Range 33 East, N.M.P.M. BHL: NE/4NE/4 (Unit A) of Section 31, Township 18 South, Range 33 East, N.M.P.M.  Completion Target: Bone Spring Formation Well Orientation: South to North Completion Location: Standard

Well #15 <i>Received by OCD: 5/14/2024 3:01:41 PM</i>	<b>Emerald Fed Com #515H Well (API No. Pending)</b> SHL: SE/4SE/4 (Unit P) of Section 6, Township 19 South, Range 33 East, N.M.P.M. BHL: NE/4NE/4 (Unit A) of Section 31, Township 18 South, Range 33 East, N.M.P.M.  Completion Target: Bone Spring Formation Well Orientation: South to North Completion Location: Standard
Well #16	<b>Emerald Fed Com #516H Well (API No. Pending)</b> SHL: SE/4SE/4 (Unit P) of Section 6, Township 19 South, Range 33 East, N.M.P.M. BHL: NE/4NE/4 (Unit A) of Section 31, Township 18 South, Range 33 East, N.M.P.M.  Completion Target: Bone Spring Formation Well Orientation: South to North Completion Location: Standard
Well #17	<b>Emerald Fed Com #605H Well (API No. Pending)</b> SHL: SE/4SE/4 (Unit P) of Section 6, Township 19 South, Range 33 East, N.M.P.M. BHL: NE/4NE/4 (Unit A) of Section 31, Township 18 South, Range 33 East, N.M.P.M.  Completion Target: Bone Spring Formation Well Orientation: South to North Completion Location: Standard
Well #18	<b>Emerald Fed Com #605H Well (API No. Pending)</b> SHL: SE/4SE/4 (Unit P) of Section 6, Township 19 South, Range 33 East, N.M.P.M. BHL: NE/4NE/4 (Unit A) of Section 31, Township 18 South, Range 33 East, N.M.P.M.  Completion Target: Bone Spring Formation Well Orientation: South to North Completion Location: Standard
Horizontal Well First and Last Take Points	Exhibit C-2
Completion Target (Formation, TVD and MD)	Exhibits C-6, C-7, and D-2
<b>AFE Capex and Operating Costs</b>	
Drilling Supervision/Month \$	\$8,000
Production Supervision/Month \$	\$800
Justification for Supervision Costs	Exhibit C
Requested Risk Charge	200%
<b>Notice of Hearing</b>	
Proposed Notice of Hearing	Exhibit B
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit E
Proof of Published Notice of Hearing (10 days before hearing)	Exhibit F
<b>Ownership Determination</b>	
Land Ownership Schematic of the Spacing Unit	Exhibits C-3 and C-4
Tract List (including lease numbers and owners)	Exhibits C-3 and C-4
If approval of Non-Standard Spacing Unit is requested, Tract List (including lease numbers and owners) of Tracts subject to notice requirements.	Exhibit C-5
Pooled Parties (including ownership type)	Exhibits C-3 and C-4
Unlocatable Parties to be Pooled	N/A
Ownership Depth Severance (including percentage above & below)	N/A
<b>Joinder</b>	
Sample Copy of Proposal Letter	Exhibit C-6
List of Interest Owners (ie Exhibit A of JOA)	Exhibit C-4
Chronology of Contact with Non-Joined Working Interests	Exhibit C-8
Overhead Rates In Proposal Letter	Exhibits C-6 and C-7
Cost Estimate to Drill and Complete	Exhibit C-7
Cost Estimate to Equip Well	Exhibit C-7
Cost Estimate for Production Facilities	Exhibit C-7
<b>Geology</b>	
Summary (including special considerations)	Exhibit D
Spacing Unit Schematic	Exhibits C-2, C-3, D-2, D-3
Gunbarrel/Lateral Trajectory Schematic	Exhibits C-3, D-2, and D-3
Well Orientation (with rationale)	Exhibit D
Target Formation	Exhibit D
HSU Cross Section	Exhibit D-3, D-4
Depth Severance Discussion	N/A
<b>Forms, Figures and Tables</b>	
C-102	Exhibit C-2
Tracts	Exhibit C-3
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit C-4
General Location Map (including basin)	Exhibits C-1 and D-1
Well Bore Location Map	Exhibits C-2, C-3, D-3, and D-3
Structure Contour Map - Subsea Depth	Exhibit D-2
Cross Section Location Map (including wells)	Exhibit D-3
Cross Section (including Landing Zone)	Exhibit D-4
<b>Additional Information</b>	
Special Provisions/Stipulations	N/A
<b>CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.</b>	
Printed Name (Attorney or Party Representative):	Miguel Suazo
Signed Name (Attorney or Party Representative):	
Date:	5/14/2024

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

APPLICATION OF AVANT  
OPERATING, LLC FOR COMPULSORY  
POOLING AND APPROVAL OF NON-  
STANDARD SPACING UNIT, LEA  
COUNTY, NEW MEXICO

Case No. \_\_\_\_\_

APPLICATION

Avant Operating, LLC, OGRID No. 330396 (“Avant” or “Applicant”), through its undersigned attorneys, hereby files this Application with the Oil Conservation Division (“Division”) pursuant to the provisions of NMSA 1978, § 70-2-17 and 19.15.16.15(B)(5) NMAC, for an order (1) creating a non-standard 1,280-acre, more or less, horizontal spacing unit (“HSU”) composed of all of Section 31, Township 18 South, Range 33 East, N.M.P.M. and all of Section 6, Township 19 South, Range 33 East, N.M.P.M., Lea County, New Mexico (the “Application Lands”), and (2) pooling all uncommitted mineral interests in the Bone Spring Formation, designated as an oil pool, underlying said HSU.

In support of its Application, Avant states the following:

1. Avant is a working interest owner in the subject lands and has a right to drill wells thereon.
2. Avant seeks to dedicate all of Section 31, Township 18 South, Range 33 East, N.M.P.M. and all of Section 6, Township 19 South, Range 33 East, N.M.P.M., Lea County, New Mexico to form a 1,280-acre, more or less, HSU.
3. Avant seeks to dedicate the above-referenced HSU to the following proposed wells:
  - A. **Emerald Fed Com #301H, Emerald Fed Com #302H, Emerald Fed Com #501H, Emerald Fed Com #502H, Emerald Fed Com #601H, and Emerald Fed**

**Com #602H**, which are oil wells that will be horizontally drilled from a surface location in Lot 7 of Section 6 to a bottom hole location in the Bone Spring Formation in Lot 1 of Section 31;

B. **Emerald Fed Com #303H, Emerald Fed Com #513H, and Emerald Fed Com #603H**, which are oil wells that will be horizontally drilled from a surface location in Lot 7 of Section 6 to a bottom hole location in the Bone Spring Formation in the NE/4NW/4 (Unit C) of Section 31;

C. **Emerald Fed Com #304H, Emerald Fed Com #514H, and Emerald Fed Com #604H**, which are oil wells that will be horizontally drilled from a surface location in the SE/4SE/4 (Unit P) of Section 6 to a bottom hole location in the Bone Spring Formation in the NW/4NE/4 (Unit B) of Section 31; and

D. **Emerald Fed Com #305H, Emerald Fed Com #306H, Emerald Fed Com #515H, Emerald Fed Com #516H, Emerald Fed Com #605H, and Emerald Fed Com #606H**, which are oil wells that will be horizontally drilled from a surface location in the SE/4SE/4 (Unit P) of Section 6 to a bottom hole location in the Bone Spring Formation in the NE/4NE/4 (Unit A) of Section 31.

4. The wells are orthodox in their location as defined by 19.15.16.15.(C) NMAC, and the take points and laterals comply with Statewide Rules for setbacks under 19.15.16.15.(C) NMAC.

5. Avant has sought in good faith but has been unable to obtain voluntary agreement from all interest owners in the Bone Spring formation underlying the proposed spacing unit to participate in the drilling of the wells or to otherwise commit their interests to the wells.

6. The pooling of all interests in the Bone Spring formation within the proposed unit will avoid the drilling of unnecessary wells, prevent waste, and protect correlative rights.

7. Approval of a non-standard horizontal spacing unit is necessary to prevent waste and protect correlative rights.

8. To provide for its just and fair share of the oil and gas underlying the subject lands, Avant requests that all uncommitted interests in this HSU be pooled and that Avant be designated as the operator of the proposed horizontal wells and HSU.

WHEREFORE, Avant requests this Application be set for hearing on May 2, 2024, before an Examiner of the Oil Conservation Division, and after notice and hearing as required by law, the Division enter an order:

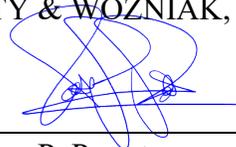
- A. Approving the creation of an approximately 1,280-acre non-standard HSU, composed of the Application Lands, pursuant to 19.15.16.15(B)(5) NMAC;
- B. Pooling all uncommitted interests in the Bone Spring Formation underlying the HSU within the Application Lands;
- C. Approving the **Emerald Fed Com #301H, Emerald Fed Com #302H, Emerald Fed Com #501H, Emerald Fed Com #502H, Emerald Fed Com #601H, and Emerald Fed Com #602H, Emerald Fed Com #303H, Emerald Fed Com #513H, and Emerald Fed Com #603H, Emerald Fed Com #304H, Emerald Fed Com #514H, and Emerald Fed Com #604H, Emerald Fed Com #305H, Emerald Fed Com #306H, Emerald Fed Com #515H, Emerald Fed Com #516H, Emerald Fed Com #605H, and Emerald Fed Com #606H,** as the wells for the HSU.
- D. Designating Avant as operator of the HSU and the horizontal wells to be drilled thereon;

- E. Authorizing Avant to recover its costs of drilling, equipping, and completing the wells;
- F. Approving actual operating charges and costs of supervision, to the maximum extent allowable, while drilling and after completion, together with a provision adjusting the rates pursuant to the COPAS accounting procedures; and
- G. Setting a 200% charge for the risk assumed by Avant in drilling and completing the wells in the event a working interest owner elects not to participate in the wells, as authorized by NMSA 1978, § 70-2-17.

Respectfully submitted,

BEATTY & WOZNIAK, P.C.

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



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Miguel A. Suazo  
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*Attorneys for Avant Operating, LLC*

***Application of Avant Natural Resources, LLC for a Horizontal Spacing Unit and Compulsory Pooling, Lea County, New Mexico.*** Applicant in the above-styled cause seeks an order from the Division: (1) creating a non-standard 1,280-acre, more or less, spacing and proration unit composed of all of Section 31, Township 18 South, Range 33 East, N.M.P.M. and all of Section 6, Township 19 South, Range 33 East, N.M.P.M., Lea County, New Mexico; and (2) pooling all uncommitted mineral interests in the Bone Spring Formation, designated as an oil pool, underlying said unit. The proposed wells to be dedicated to the horizontal spacing unit are Emerald Fed Com #301H, Emerald Fed Com #302H, Emerald Fed Com #501H, Emerald Fed Com #502H, Emerald Fed Com #601H, and Emerald Fed Com #602H, which are oil wells that will be horizontally drilled from a surface location in Lot 7 of Section 6 to a bottom hole location in the Bone Spring Formation in Lot 1 of Section 31; Emerald Fed Com #303H, Emerald Fed Com #513H, and Emerald Fed Com #603H, which are oil wells that will be horizontally drilled from a surface location in Lot 7 of Section 6 to a bottom hole location in the Bone Spring Formation in the NE/4NW/4 (Unit C) of Section 31; Emerald Fed Com #304H, Emerald Fed Com #514H, and Emerald Fed Com #604H, which are oil wells that will be horizontally drilled from a surface location in the SE/4SE/4 (Unit P) of Section 6 to a bottom hole location in the Bone Spring Formation in the NW/4NE/4 (Unit B) of Section 31; and Emerald Fed Com #305H, Emerald Fed Com #306H, Emerald Fed Com #515H, Emerald Fed Com #516H, Emerald Fed Com #605H, and Emerald Fed Com #606H, which are oil wells that will be horizontally drilled from a surface location in the SE/4SE/4 (Unit P) of Section 6 to a bottom hole location in the Bone Spring Formation in the NE/4NE/4 (Unit A) of Section 31. The wells are orthodox in location, and the take points and laterals comply with Statewide Rules for setbacks. Applicant will apply for administrative approval of the non-standard spacing unit. Also to be considered will be the cost of drilling and completing the wells and the allocation of the costs thereof; actual operating costs and charges for supervision; the designation of the Applicant as Operator of the wells and unit; and a 200% charge for the risk involved in drilling and completing the wells. The wells and lands are located approximately 5 miles west from Hobbs, New Mexico.

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

**APPLICATION OF AVANT OPERATING, LLC  
FOR COMPULSORY POOLING AND  
APPROVAL OF NON-STANDARD SPACING  
UNIT, LEA COUNTY, NEW MEXICO**

**Case No. 24376**

**AFFIDAVIT OF SOPHIA GUERRA**

Sophia Guerra, being first duly sworn upon oath, deposes and states as follows:

1. My name is Sophia Guerra, and I am employed by Avant Operating, LLC (“Avant”) as a Senior Landman.

2. I have not previously testified before the New Mexico Oil Conservation Division (“Division”). I have several years of experience in petroleum land matters, and I have worked directly or in a supervisory role with the properties that are the subject of these matters. I ask that the Division accept my credentials as those of an expert witness in petroleum land matters and made a matter of record.

3. I am familiar with the application filed by Avant in the above-referenced case and the status of the lands in the subject lands.

4. I am submitting this affidavit in support of Avant’s application in the above-referenced case pursuant to 19.15.4.12.(A)(1) NMAC. None of the parties proposed to be pooled in this case indicated opposition to this matter proceeding by affidavit, and I do not expect opposition at the hearing.

5. Under Case No. 24376, Avant seeks an order (1) creating a non-standard 1,342-acre, more or less, horizontal spacing unit (“HSU”) composed of all of Section 31, Township 18 South, Range 33 East, N.M.P.M. and all of Section 6, Township 19 South, Range 33 East,

N.M.P.M., Lea County, New Mexico, and (2) pooling all uncommitted mineral interests in the Bone Spring Formation, designated as an oil pool, underlying said HSU.

6. **Avant Exhibit C-1** is a general location map showing the proposed Bone Spring Formation spacing unit. The acreage subject to the applications are federal lands.

7. **Avant Exhibit C-2** contains the Form C-102s reflecting that the proposed Bone Spring wells to be drilled and completed in the subject unit. The location of each well is orthodox and meets the Division's offset requirements. Following approval of the APDs, Avant will submit a Sundry Notice for the Emerald Fed Com #505H and Emerald Fed Com #506H to change the names to the Emerald Fed Com #515H and Emerald Fed Com #516H well, as identified in the above-referenced application.

8. A review of the Bone Spring Formation underlying the subject lands indicated that there are no overlapping spacing units in the Bone Spring Formation.

9. **Avant Exhibit C-3** outlines the proposed Bone Spring unit and tracts therein.

10. **Avant Exhibit C-4** sets forth the ownership of the parties being pooled, the nature of their interests, and their last known address. The exhibit identifies the tract number, tract percentage interest, and spacing unit percentage interest for each mineral owner.

In compiling these addresses, I conducted a diligent search of the public records in Lea County, New Mexico, where the wells are located, and of phone directories and did computer searches to locate the contact information for parties entitled to notification. All interest owners were locatable and noticed, and there are no unleased mineral interest owners. Avant caused notice to be published in the Hobbs News-Sun, a newspaper of general circulation in Lea County, New Mexico. I provided the law firm of Beatty & Wozniak, P.C. with the names and addresses for

these mineral owners and instructed that each owner be provided notice of the hearing in these matters.

11. **Avant Exhibit C-5** is a map depicting the non-standard spacing unit in relation to the outline of a standard spacing unit. The map also identified the interest owners in the tracts surrounding the proposed unit, who were also provided notice of the application.

12. Avant's request for approval of a non-standard spacing unit will allow it to consolidate surface facilities and will consequently prevent surface, environmental, and economic waste. As a result, approval of a non-standard spacing unit is necessary to prevent waste and protect correlative rights.

13. **Avant Exhibit C-6** contains the well proposal letter(s) sent in January of 2024 to each mineral interest owner. A few additional owners received proposals on March 4, 2024.

14. **Avant Exhibit C-7** contains the AFE for each proposed well. The estimated costs of the wells set forth in the AFEs is fair, reasonable, and comparable to the costs of other wells of similar depths and lengths drilled in this area of New Mexico.

15. Avant requests overhead and administrative rates of \$8,000/month for drilling each well and \$800/month for producing each well. These rates are fair and comparable to the rates charged by other operators for wells of this type in this area of New Mexico. Avant respectfully requests that these administrative and overhead costs be incorporated into any orders entered by the Division in these cases.

16. Avant requests the maximum cost, plus 200% risk charge be assessed against nonconsenting working interest owners.

17. **Avant Exhibit C-8** sets forth a chronology of the contacts with owners. Avant has made a good faith effort to obtain voluntary joinder of the interest owners in the proposed wells.

18. Avant requests that it be designated operator of the unit and wells.

19. **Exhibit C-1** through **Exhibit C-8** were either prepared by me or compiled from Avant's company business records under my direction and supervision.

20. The granting of this application for compulsory pooling and approval of a non-standard spacing unit is in the best interest of conservation, the prevention of waste, and the protection of correlative rights, and will avoid the drilling of unnecessary wells.

21. I hereby swear that to the best of my knowledge and belief, all of the matters set forth herein and in the exhibits are true, correct, and accurate.

*[Remainder of page left intentionally blank]*

FURTHER AFFIANT SAYETH NOT.

Dated this 9th day of May, 2024.

  
 \_\_\_\_\_  
 Sophia Guerra  
 Avant Operating, LLC

STATE OF COLORADO            )  
   ) ss.  
 CITY OF DENVER                )

The foregoing instrument was subscribed and sworn to before me this 9th day of May, 2024, by Sophia Guerra, Senior Landman for Avant Operating, LLC.

Witness my hand and official seal.

My commission expires: 8/26/2025

**KATELYN DICK**  
 Notary Public  
 State of Colorado  
 Notary ID # 20214034126  
 My Commission Expires 08-26-2025

  
 \_\_\_\_\_

**SOPHIA E. GUERRA**

3780 Independence Street, Wheat Ridge, CO 8003  
sophia@avantnr.com, (303) 519-2870

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**EDUCATION****University of Colorado at Boulder – Leeds School of Business**

May 2013

Bachelor of Science in Business Administration with an emphasis in accounting.

**EXPERIENCE****Avant Natural Resources, LLC, Denver, CO***Senior Landman*

November 2022 – Present

- Prepare New Mexico acreage position to be ready for near-term development. Review title reports provided by brokers, prepare well proposals and communicate with all working interest and mineral interest owners within proposed units. When necessary, initiate compulsory pooling procedures and work closely with legal counsel to provide exhibit information and other tasks necessary to submit applications. Work closely with development and technical teams to stay ahead of drill schedule and provide any land support needed. Communicate closely with regulatory team to ensure proposed unit and well locations follow New Mexico state and federal regulations.
- Negotiate lease agreements, acquisitions, divestitures and trades with partners in the Permian basin to ensure land position is suitable for large-scale development. Identify deal opportunities within each upcoming unit to bolster working interest and ensure operatorship. Work closely with partners to negotiate joint operating agreements and any other agreements necessary prior to development.
- Provide surface landman support for all drill-ready units, including negotiating surface use agreements, issuing surface damage payments, providing surface owners with all necessary development plans and acting as liaison between surface owners and development team.
- Maintain strong, professional working relationships with the federal and state land offices to ensure all operations are conducted properly, as well as maintaining an open line of communication should any issues arise. Provide the federal and state land offices with all requested information or documentation to resolve any inquiries.

**Centennial Resource Production, LLC, Denver, CO***Landman*

November 2020 – October 2022

- Complete necessary tasks to maintain leasehold for acreage position in Reeves County, Texas. Work with development team to ensure critical land dates are met with drilling rig, review leases for cessation provisions, complete rental calendar reviews to make timely rental payments and other tasks necessary to maintain leasehold.
- Prepare wells to be drilled in my area of responsibility. Tasks include working with brokers and title attorneys to obtain updated title opinions and mineral ownership reports, reviewing title opinions to cure outstanding requirements, working with regulatory and development teams to ensure well plats and surveys are accurate, and completing lease reviews to ensure proposed development plans are acceptable.
- Negotiate lease offers as well as any acquisitions or divestitures with partners. Research chain of title to ensure accurate mineral ownership, draft necessary lease or conveyance documents, and work with attorneys to ensure all legal paperwork is sufficient.

*Land Coordinator*

October 2018 – November 2020

- Assist landmen with various tasks associated with acquisitions and divestitures, preparing wells to drill, maintaining positive relationships with mineral owners and various other special projects. Responsibilities include preparing assignment exhibits, curing title requirements, sending well proposals to partners and calculating working interest.
- Monitor and research wells with cessation of production to determine solution and maintain leasehold acreage. Review leases associated with shut-in wells and work closely with lease brokers, production engineers, development and legal teams to ensure acreage is maintained when wells are temporarily shut in.
- Maintain non-operated acreage and associated wells that fall within my area of responsibility. Negotiate and draft joint operating agreements, calculate division of interest for yearly reserves, and work closely with accounting and land administration teams to mitigate any non-operated inquiries.

**Gary Permian, LLC, Denver CO**

*Lease Analyst*

October 2017 – October 2018

- Maintain accurate lease records for total company acreage position in Pecos County, Texas. Responsibilities include updating land system with lease information, running mineral acreage reports, creating physical lease files and other tasks to confirm leasehold is reported accurately to all departments.
- Assist land managers with new lease negotiations and acquisitions. Responsibilities include chaining title from patent to present to ensure accurate mineral interest, mailing new leases and offer letters, drafting conveyance documents and sending bonus payments to owners.

**Encana Oil & Gas (USA) Inc., Denver, CO**

*Land Coordinator and Land Analyst*

August 2012-September 2017

- Completed new graduate rotation for both lease records analyst and division orders analyst. Responsibilities include maintaining lease records and division orders records for various geographical areas in Texas, New Mexico and Wyoming. Review lease provisions and title opinions, update records in Quorum Land Systems and calculate mineral interests for a high volume of producing wells. Experienced all aspects of the Land Administration department through my rotations.
- Assist the landmen as a coordinator for the Permian land team. Responsibilities include working closely with title attorneys to cure requirements, reviewing chain of title documents and preparing wells to be drilled through the distribution of well proposals and joint operating agreements.

**PROFESSIONAL ORGANIZATIONS**

- American Association of Professional Landmen
- Women in Minerals

# General Location Map

Emerald Federal Com

#301H-#306H / #501-#516H / #601H-#606H

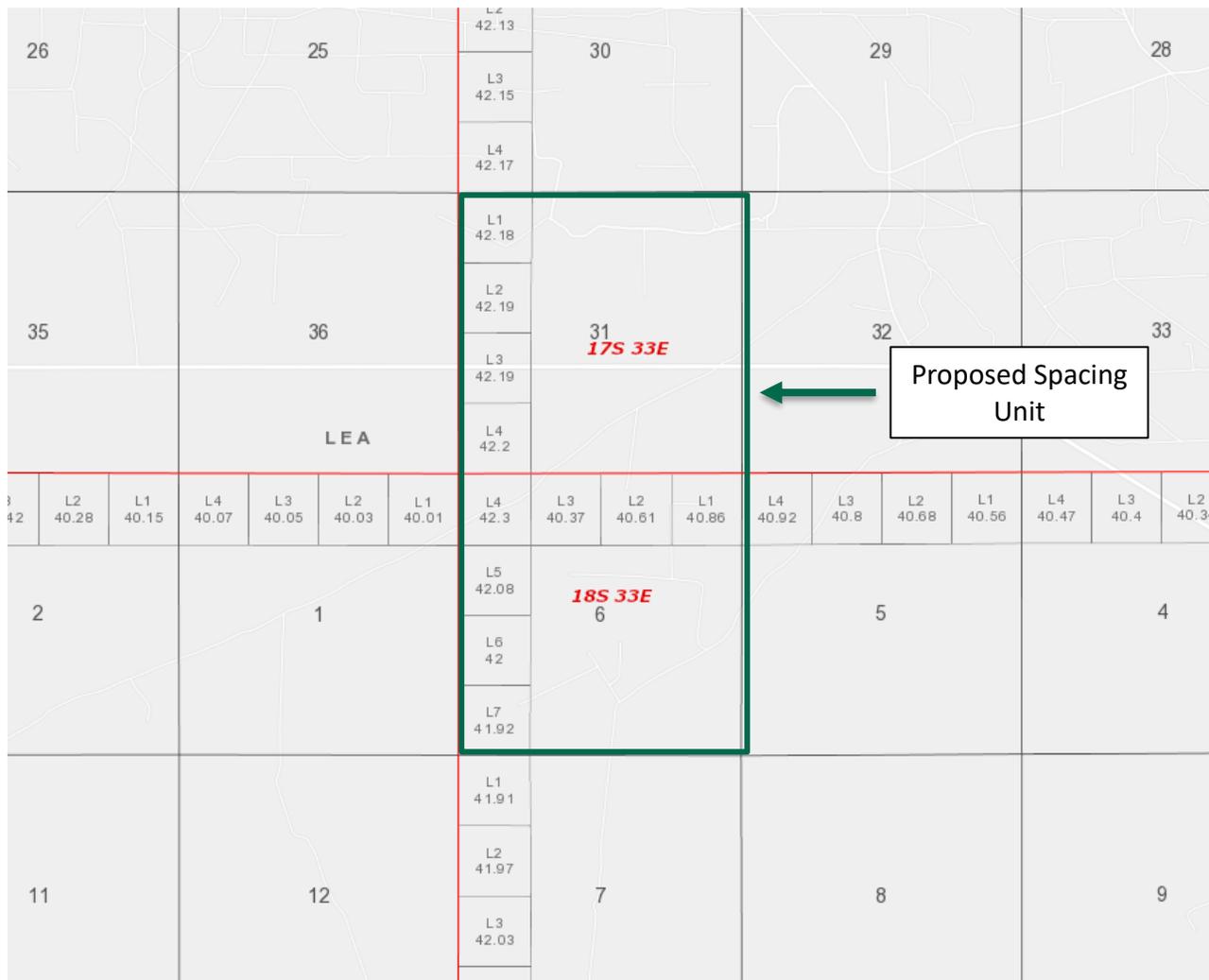
## Avant Operating, LLC

### Case Nos. 24376

### Exhibit C-1



General Location Map: ALL of Section 31, Township 18 South, Range 33 East, N.M.P.M., & ALL of Section 6, Township 19 South, Range 33 East, N.M.P.M., Lea County, New Mexico



DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, N.M. 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102

Revised August 1, 2011

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

Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Table with 3 columns: API Number, Pool Code, Pool Name, Property Code, Property Name, Well Number, OGRID No., Operator Name, Elevation.

Surface Location

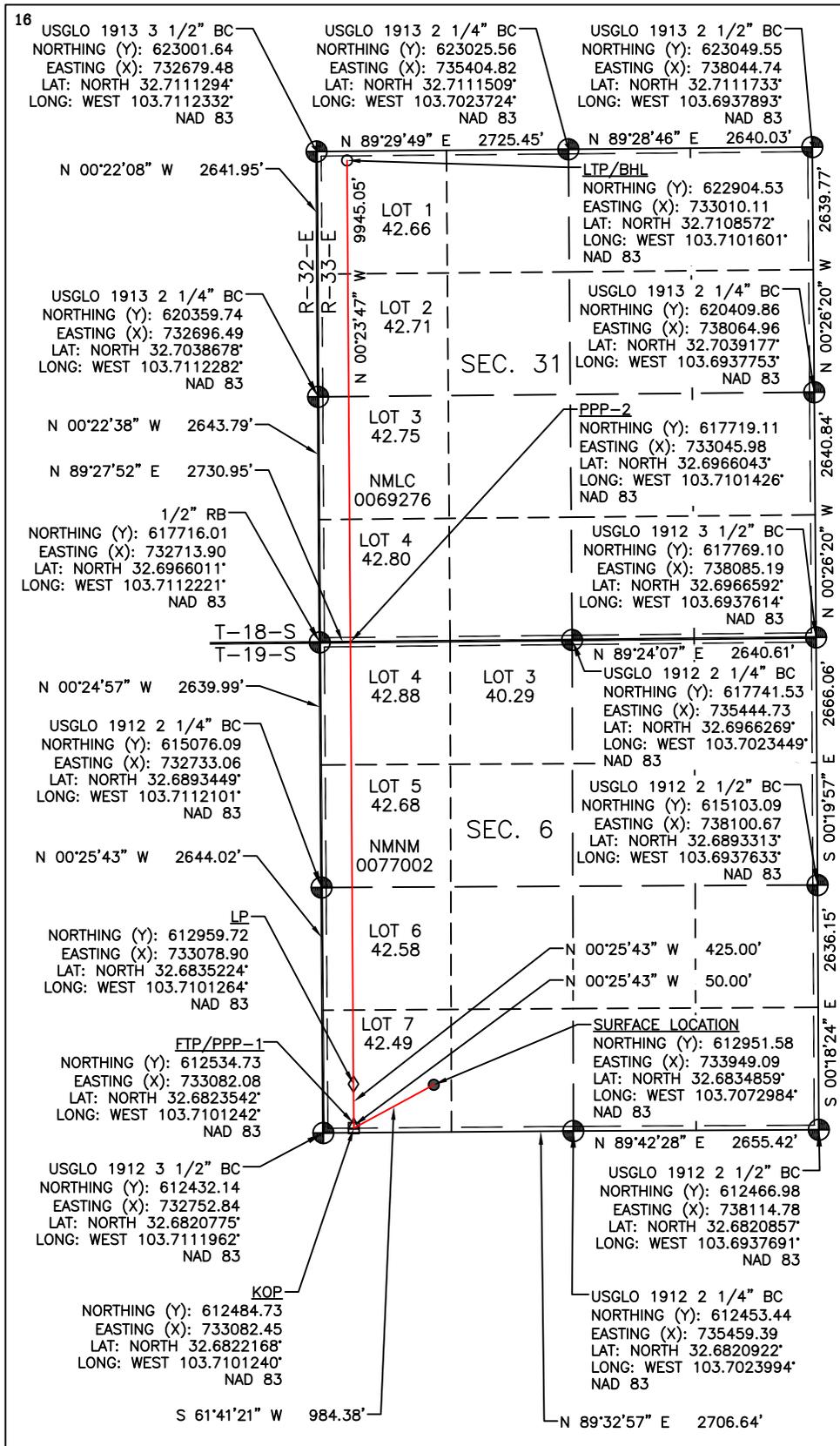
Table with 10 columns: UL or lot no., Section, Township, Range, Lot Idn, Feet from the, North/South line, Feet from the, East/West line, County.

Bottom Hole Location If Different From Surface

Table with 10 columns: UL or lot no., Section, Township, Range, Lot Idn, Feet from the, North/South line, Feet from the, East/West line, County.

Table with 4 columns: Dedicated Acres, Joint or Infill, Consolidation Code, Order No.

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



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

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

PRELIMINARY

- LEGEND:
● = SURFACE LOCATION (SHL)
□ = KICK OFF POINT (KOP)
△ = FTP/PPP-1
◇ = LANDING POINT (LP)
○ = LTP/BHL
⊙ = FOUND MONUMENT

Table with 3 columns: FOOTAGES, SHL, KOP, FTP/PPP-1, LP, PPP-2, LTP/BHL.

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Table with 3 columns: API Number, Pool Code, Pool Name, Property Code, Property Name, Well Number, OGRID No., Operator Name, Elevation.

Surface Location

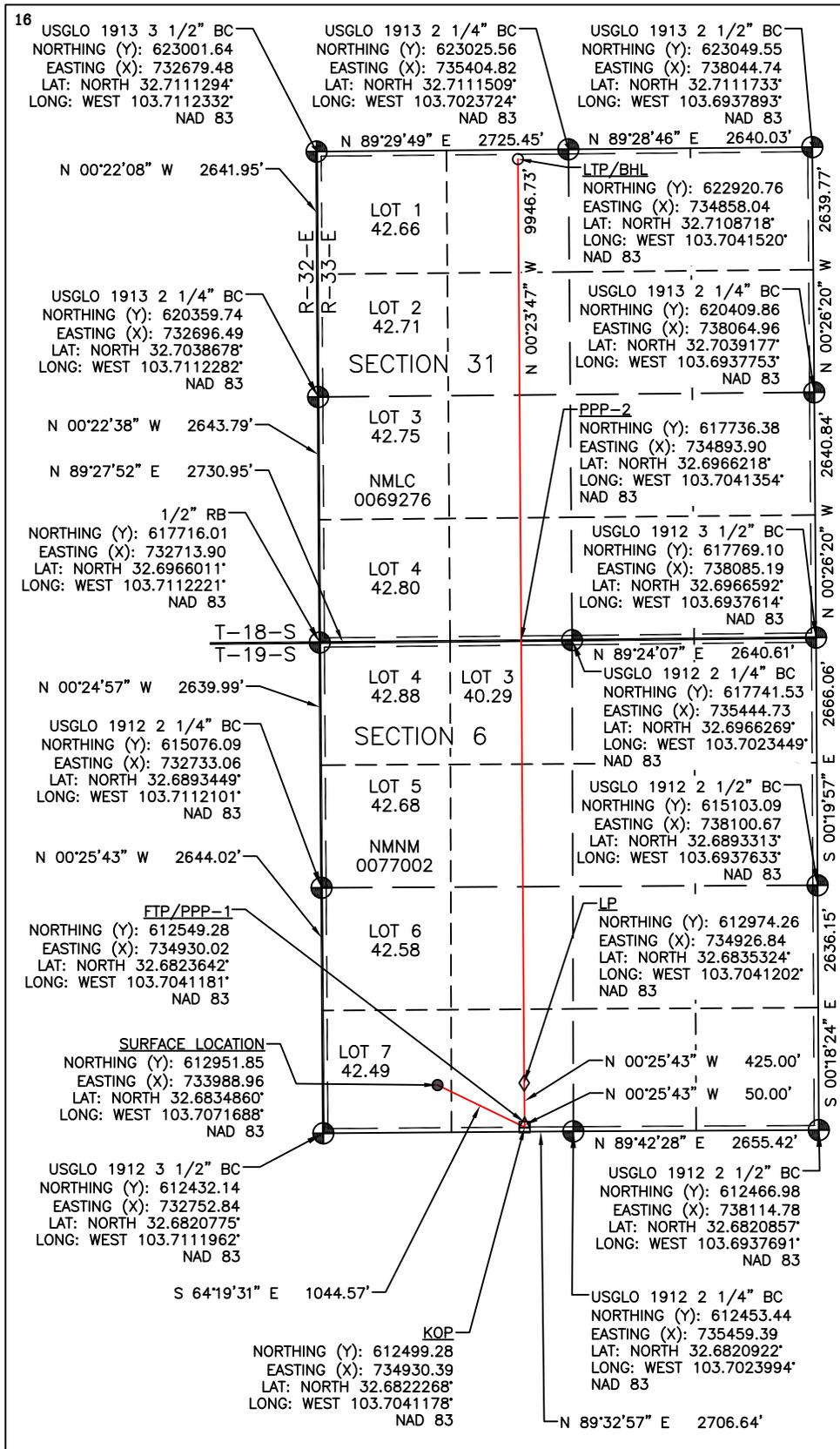
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Bottom Hole Location If Different From Surface

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Table with 4 columns: Dedicated Acres, Joint or Infill, Consolidation Code, Order No.

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17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief...

18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision...

PRELIMINARY

- LEGEND:
● = SURFACE LOCATION (SHL)
□ = KICK OFF POINT (KOP)
△ = FTP/PPP-1
◇ = LANDING POINT (LP)
○ = LTP/BHL
⊙ = FOUND MONUMENT

FOOTAGES table with columns: SHL, KOP, FTP/PPP-1, LP, PPP-2, LTP/BHL and rows for 510' FSL, 1240' FWL, 50' FSL, 2178' FWL, 100' FSL, 2178' FWL, 525' FSL, 2178' FWL, 0' FNL, 2180' FWL, 100' FNL, 2178' FWL.

**DISTRICT I**  
1825 N. French Dr., Hobbs, N.M. 88240  
Phone: (575) 393-6181 Fax: (575) 393-0720

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102

Revised August 1, 2011

**DISTRICT II**  
811 S. First St., Artesia, N.M. 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

**OIL CONSERVATION DIVISION**

Submit one copy to appropriate

District Office

**DISTRICT III**  
1000 Rio Brazos Rd., Aztec, N.M. 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

1220 South St. Francis Dr.  
Santa Fe, N.M. 87505

AMENDED REPORT

**DISTRICT IV**  
1220 S. St. Francis Dr., Santa Fe, N.M. 87505  
Phone: (505) 476-3480 Fax: (505) 476-3482

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-025-50994		<sup>2</sup> Pool Code 13160		<sup>3</sup> Pool Name Corbin, Bone Spring South	
<sup>4</sup> Property Code		<sup>5</sup> Property Name EMERALD FEDERAL COM			<sup>6</sup> Well Number 50IH
<sup>7</sup> GRID No. 330396		<sup>8</sup> Operator Name AVANT OPERATING, LLC			<sup>9</sup> Elevation 3674

<sup>10</sup> Surface Location

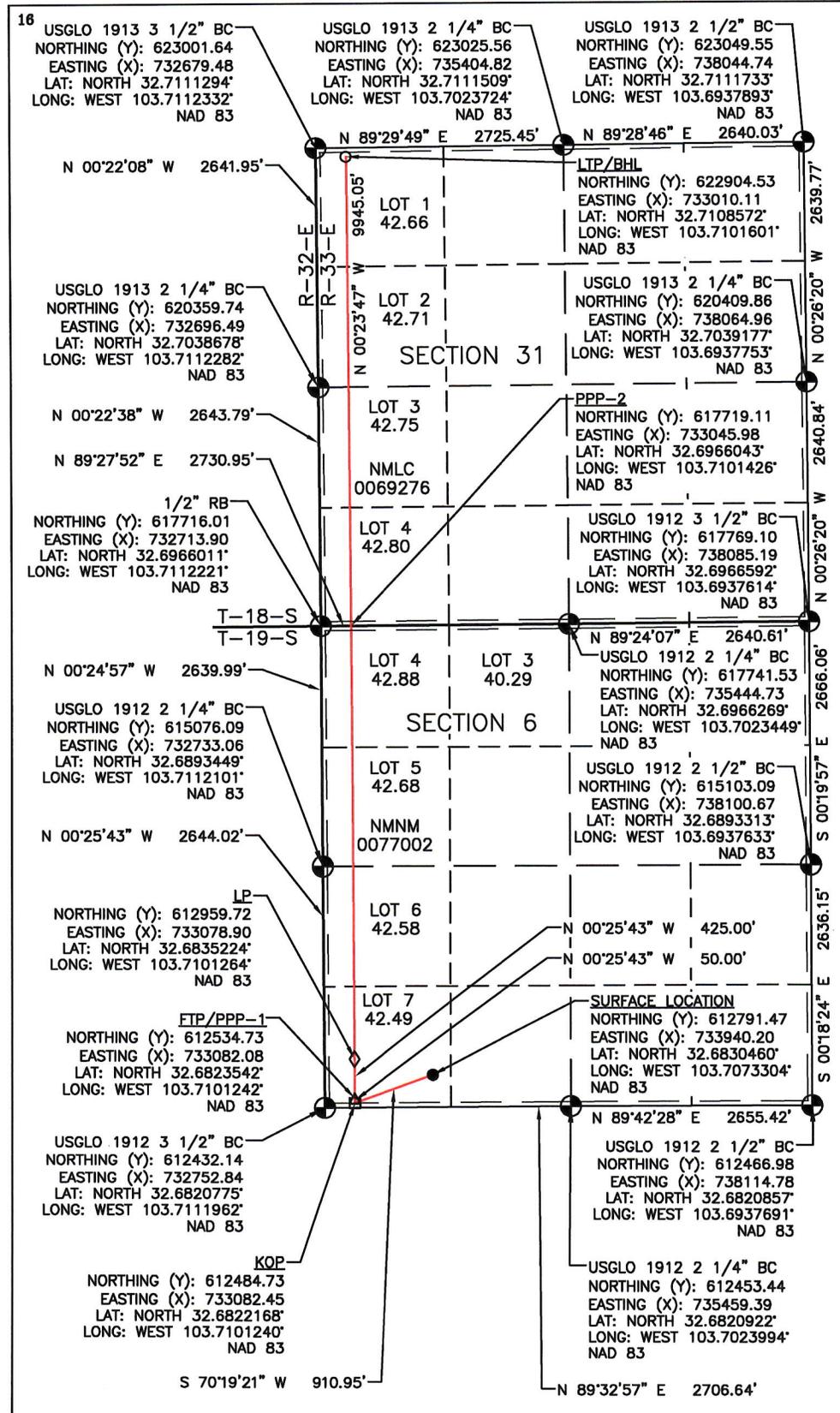
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	6	19 S	33 E	LOT 7	350	SOUTH	1190	WEST	LEA

<sup>11</sup> Bottom Hole 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
D	31	18 S	33 E	LOT 1	100	NORTH	330	WEST	LEA

<sup>12</sup> Dedicated Acres 1342.98 Total Ac.	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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



**17 OPERATOR CERTIFICATION**

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

Signature \_\_\_\_\_ Date \_\_\_\_\_

Printed Name \_\_\_\_\_

E-mail Address \_\_\_\_\_

**18 SURVEYOR CERTIFICATION**

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

12/20/23  
Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number 14931

- LEGEND:**
- = SURFACE LOCATION (SHL)
  - = KICK OFF POINT (KOP)
  - △ = FTP/PPP-1
  - ◇ = LANDING POINT (LP)
  - = LTP/BHL
  - ⊕ = FOUND MONUMENT

FOOTAGES		
SHL	350' FSL	1190' FWL
KOP	50' FSL	330' FWL
FTP/PPP-1	100' FSL	330' FWL
LP	525' FSL	330' FWL
PPP-2	0' FNL	332' FWL
LTP/BHL	100' FNL	330' FWL

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

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DISTRICT II  
811 S. First St., Artesia, N.M. 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.  
Santa Fe, N.M. 87505

Revised August 1, 2011

Submit one copy to appropriate  
District Office

DISTRICT III  
1000 Rio Brazos Rd., Aztec, N.M. 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number		<sup>2</sup> Pool Code 13160		<sup>3</sup> Pool Name Corbin, Bone Spring South	
<sup>4</sup> Property Code		<sup>5</sup> Property Name EMERALD FEDERAL COM			<sup>6</sup> Well Number 302H
<sup>7</sup> OGRID No. 330396		<sup>8</sup> Operator Name AVANT OPERATING, LLC			<sup>9</sup> Elevation 3676.6

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	6	19 S	33 E	LOT 7	510	SOUTH	1220	WEST	LEA

<sup>11</sup> Bottom Hole 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
D	31	18 S	33 E	LOT 1	100	NORTH	1320	WEST	LEA

<sup>12</sup> Dedicated Acres 1342.98 Total Ac.	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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

<sup>16</sup>

**<sup>17</sup> OPERATOR CERTIFICATION**

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Signature \_\_\_\_\_ Date \_\_\_\_\_

Printed Name \_\_\_\_\_

E-mail Address \_\_\_\_\_

---

**<sup>18</sup> SURVEYOR CERTIFICATION**

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

12/20/23  
Date of Survey \_\_\_\_\_

Signature and Seal of Professional Surveyor: \_\_\_\_\_

PRELIMINARY

Certificate Number \_\_\_\_\_

**LEGEND:**

- = SURFACE LOCATION (SHL)
- = KICK OFF POINT (KOP)
- △ = FTP/PPP-1
- ◇ = LANDING POINT (LP)
- = LTP/BHL
- ⊙ = FOUND MONUMENT

FOOTAGES		
SHL	510' FSL	1220' FWL
KOP	50' FSL	1320' FWL
FTP/PPP-1	100' FSL	1320' FWL
LP	525' FSL	1320' FWL
PPP-2	0' FNL	1322' FWL
LTP/BHL	100' FNL	1320' FWL

DISTRICT I  
1625 N. French Dr., Hobbs, N.M. 88240  
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State of New Mexico  
Energy, Minerals & Natural Resources Department

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DISTRICT II  
811 S. First St., Artesia, N.M. 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

OIL CONSERVATION DIVISION

Submit one copy to appropriate

DISTRICT III  
1000 Rio Brazos Rd., Aztec, N.M. 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

1220 South St. Francis Dr.  
Santa Fe, N.M. 87505

District Office

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-50996	<sup>2</sup> Pool Code 13160	<sup>3</sup> Pool Name Corbin, Bone Spring South
<sup>4</sup> Property Code	<sup>5</sup> Property Name EMERALD FEDERAL COM	
<sup>7</sup> GRID No. 330396	<sup>8</sup> Operator Name AVANT OPERATING, LLC	<sup>6</sup> Well Number 513H  <sup>9</sup> Elevation 3674

<sup>10</sup> Surface Location

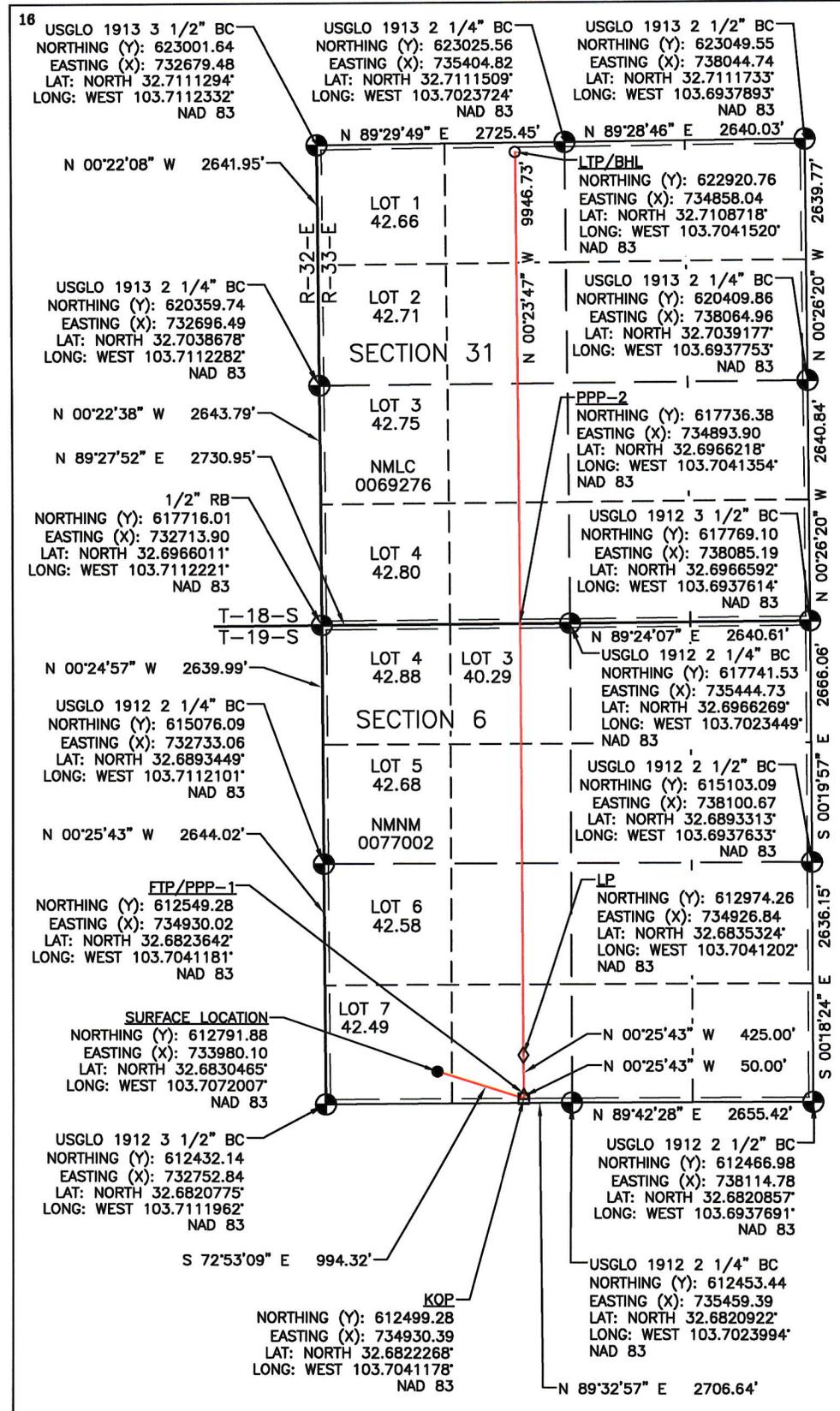
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	6	19 S	33 E	LOT 7	350	SOUTH	1230	WEST	LEA

<sup>11</sup> Bottom Hole 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
C	31	18 S	33 E		100	NORTH	2178	WEST	LEA

<sup>12</sup> Dedicated Acres 1342.98 Total Ac.	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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Signature \_\_\_\_\_ Date \_\_\_\_\_

Printed Name \_\_\_\_\_

E-mail Address \_\_\_\_\_

**18 SURVEYOR CERTIFICATION**

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

Date of Survey: 12/20/23

Signature and Seal of Professional Surveyor: [Signature]

Certificate Number: 14831

**LEGEND:**

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- = KICK OFF POINT (KOP)
- △ = FTP/PPP-1
- ◇ = LANDING POINT (LP)
- = LTP/BHL
- ⊕ = FOUND MONUMENT

FOOTAGES		
SHL	350' FSL	1230' FWL
KOP	50' FSL	2178' FWL
FTP/PPP-1	100' FSL	2178' FWL
LP	525' FSL	2178' FWL
PPP-2	0' FNL	2180' FWL
LTP/BHL	100' FNL	2178' FWL

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OIL CONSERVATION DIVISION

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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number		<sup>2</sup> Pool Code 13160		<sup>3</sup> Pool Name Corbin, Bone Spring South	
<sup>4</sup> Property Code		<sup>5</sup> Property Name EMERALD FEDERAL COM			<sup>6</sup> Well Number 60IH
<sup>7</sup> OGRID No. 330396		<sup>8</sup> Operator Name AVANT OPERATING, LLC			<sup>9</sup> Elevation 3671.8

<sup>10</sup> Surface Location

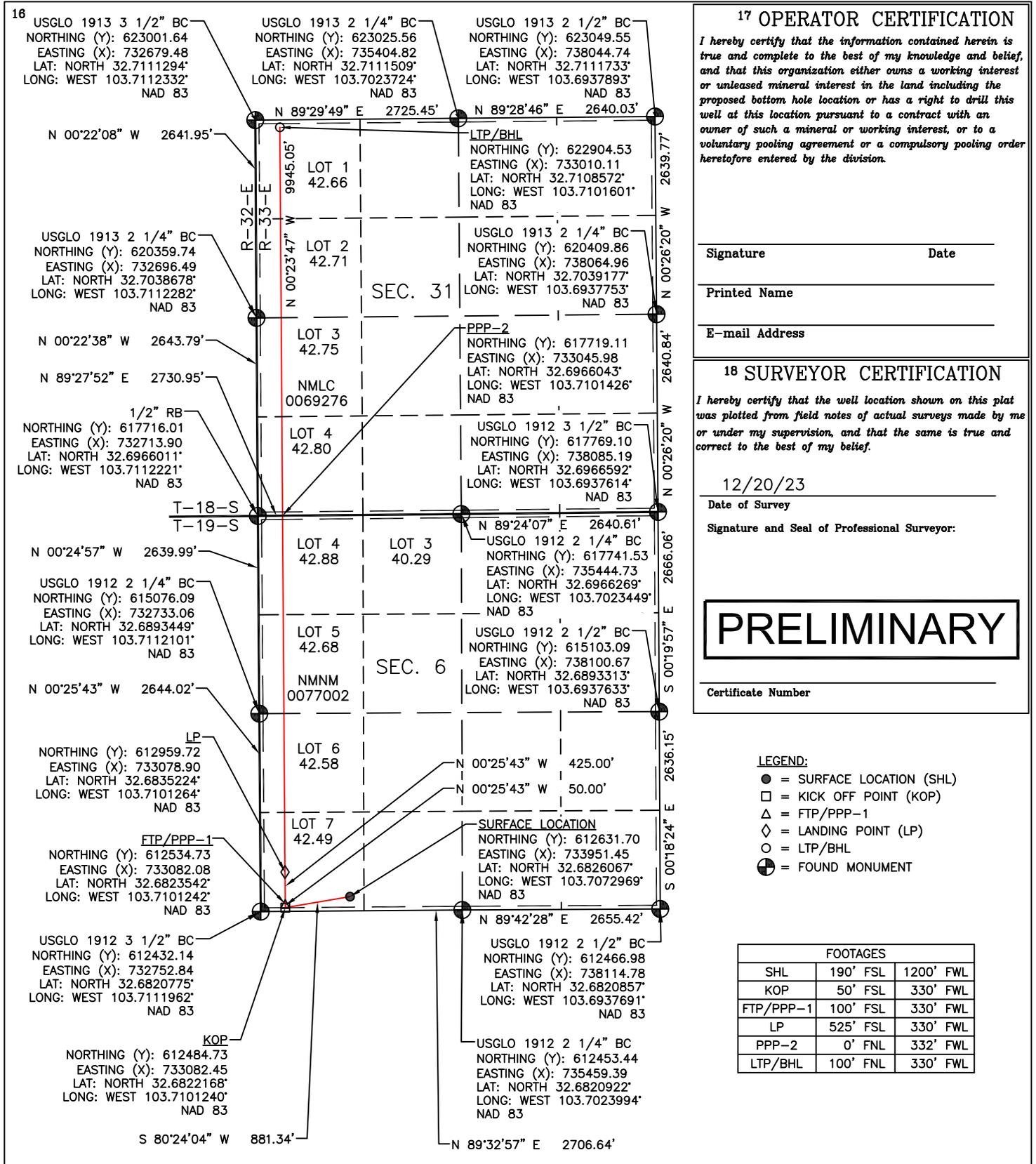
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	6	19 S	33 E	LOT 7	190	SOUTH	1200	WEST	LEA

<sup>11</sup> Bottom Hole 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
D	31	18 S	33 E	LOT 1	100	NORTH	330	WEST	LEA

<sup>12</sup> Dedicated Acres 1342.98 Total Ac.				<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
--	--	--	--	-------------------------------	----------------------------------	-------------------------

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Santa Fe, N.M. 87505

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District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

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Surface Location

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Bottom Hole Location If Different From Surface

Table with 10 columns: UL or lot no., Section, Township, Range, Lot Idn, Feet from the, North/South line, Feet from the, East/West line, County.

Table with 4 columns: Dedicated Acres, Joint or Infill, Consolidation Code, Order No.

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

16 SURVEY MAP showing lots, bearings, distances, and coordinates. Includes 17 OPERATOR CERTIFICATION, 18 SURVEYOR CERTIFICATION, LEGEND, and FOOTAGES table.

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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Surface Location

Table with 10 columns: UL or lot no., Section, Township, Range, Lot Idn, Feet from the, North/South line, Feet from the, East/West line, County.

Bottom Hole Location If Different From Surface

Table with 10 columns: UL or lot no., Section, Township, Range, Lot Idn, Feet from the, North/South line, Feet from the, East/West line, County.

Table with 4 columns: Dedicated Acres, Joint or Infill, Consolidation Code, Order No.

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

Main plat diagram showing sections 31 and 6, lots 1-7, bearings, distances, and well locations. Includes Operator Certification, Surveyor Certification, and a Footages table.

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102

Revised August 1, 2011

DISTRICT II  
811 S. First St., Artesia, N.M. 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

OIL CONSERVATION DIVISION

Submit one copy to appropriate

District Office

DISTRICT III  
1000 Rio Brazos Rd., Aztec, N.M. 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

1220 South St. Francis Dr.  
Santa Fe, N.M. 87505

AMENDED REPORT

DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, N.M. 87505  
Phone: (505) 476-3480 Fax: (505) 476-3482

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-50995	<sup>2</sup> Pool Code 13160	<sup>3</sup> Pool Name Corbin, Bone Spring South
<sup>4</sup> Property Code	<sup>5</sup> Property Name EMERALD FEDERAL COM	<sup>6</sup> Well Number 502H
<sup>7</sup> GRID No. 330396	<sup>8</sup> Operator Name AVANT OPERATING, LLC	<sup>9</sup> Elevation 3674

<sup>10</sup> Surface Location

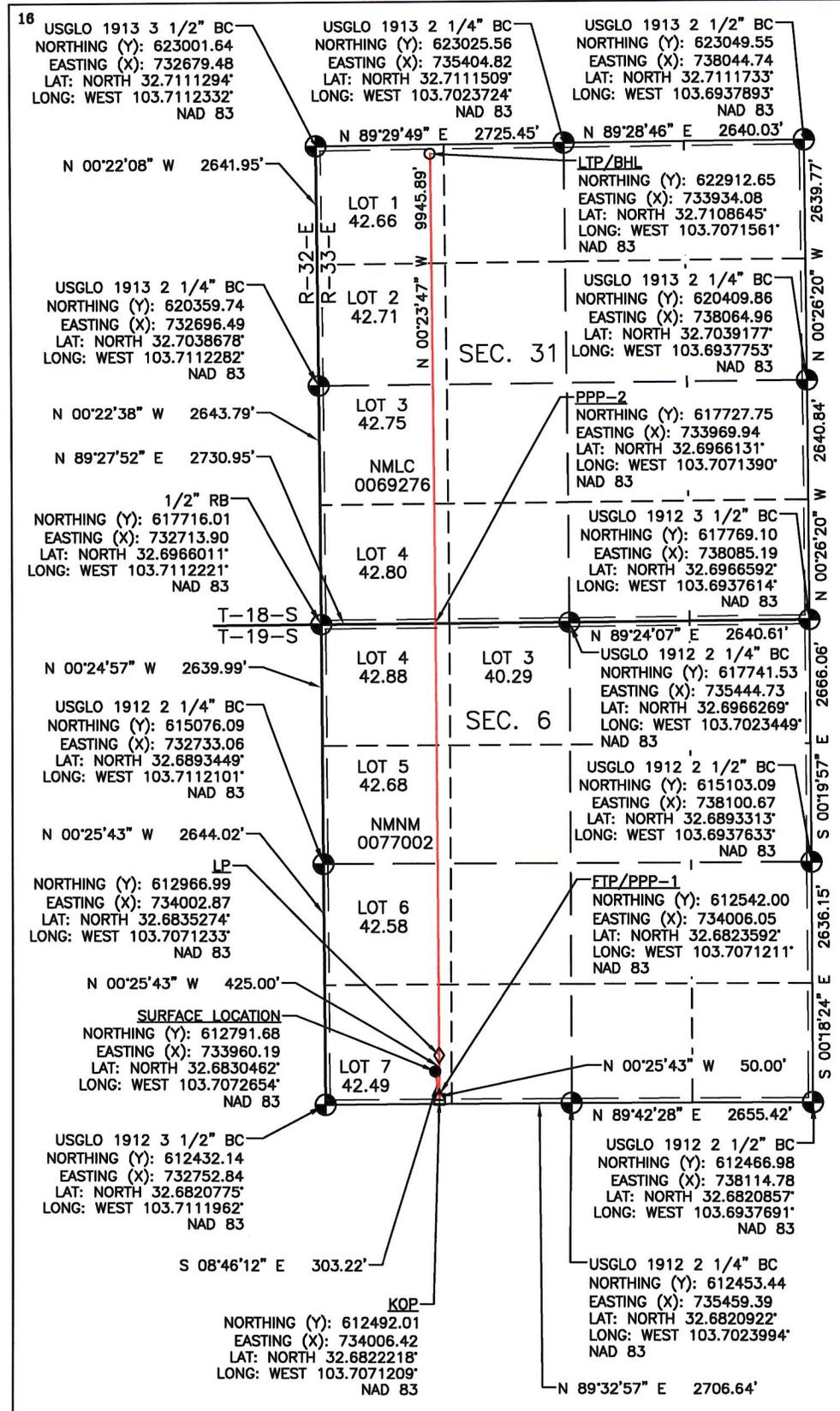
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	6	19 S	33 E	LOT 7	350	SOUTH	1210	WEST	LEA

<sup>11</sup> Bottom Hole 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
D	31	18 S	33 E	LOT 1	100	NORTH	1254	WEST	LEA

<sup>12</sup> Dedicated Acres 1342.98 Total Ac.	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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



**17 OPERATOR CERTIFICATION**

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

Signature \_\_\_\_\_ Date \_\_\_\_\_

Printed Name \_\_\_\_\_

E-mail Address \_\_\_\_\_

**18 SURVEYOR CERTIFICATION**

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

12/20/23  
Date of Survey

Signature and Seal of Professional Surveyor:  
*Julia A. Vukobratovic*

Certificate Number 14831

**LEGEND:**

- = SURFACE LOCATION (SHL)
- = KICK OFF POINT (KOP)
- △ = FTP/PPP-1
- ◇ = LANDING POINT (LP)
- = LTP/BHL
- ⊕ = FOUND MONUMENT

FOOTAGES		
SHL	350' FSL	1210' FWL
KOP	50' FSL	1254' FWL
FTP/PPP-1	100' FSL	1254' FWL
LP	525' FSL	1254' FWL
PPP-2	0' FNL	1256' FWL
LTP/BHL	100' FNL	1254' FWL

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**DISTRICT II**  
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Phone: (575) 748-1283 Fax: (575) 748-9720

**DISTRICT III**  
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**DISTRICT IV**  
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State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102

Revised August 1, 2011

**OIL CONSERVATION DIVISION**

1220 South St. Francis Dr.  
Santa Fe, N.M. 87505

Submit one copy to appropriate  
District Office

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number		<sup>2</sup> Pool Code 13160		<sup>3</sup> Pool Name Corbin, Bone Spring South	
<sup>4</sup> Property Code		<sup>5</sup> Property Name EMERALD FEDERAL COM			<sup>6</sup> Well Number 605H
<sup>7</sup> OGRID No. 330396		<sup>8</sup> Operator Name AVANT OPERATING, LLC			<sup>9</sup> Elevation 3682.5

<sup>10</sup> Surface Location

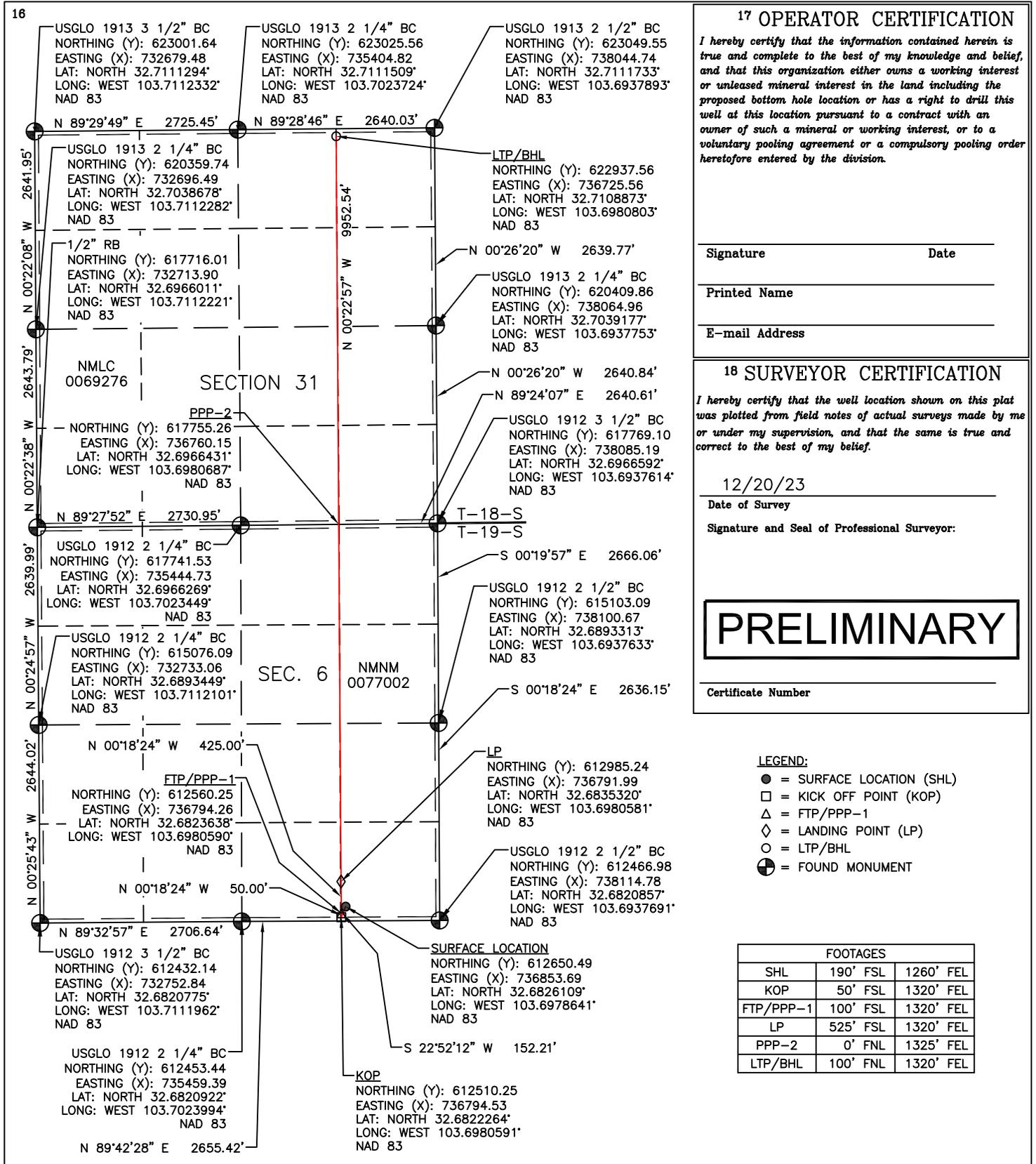
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	6	19 S	33 E		190	SOUTH	1260	EAST	LEA

<sup>11</sup> Bottom Hole 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
A	31	18 S	33 E		100	NORTH	1320	EAST	LEA

<sup>12</sup> Dedicated Acres 1342.98 Total Ac.	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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



DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
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State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102

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

Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Table with 3 columns: API Number, Pool Code, Pool Name, Property Code, Property Name, Well Number, OGRID No., Operator Name, Elevation.

Surface Location

Table with 10 columns: UL or lot no., Section, Township, Range, Lot Idn, Feet from the, North/South line, Feet from the, East/West line, County.

Bottom Hole Location If Different From Surface

Table with 10 columns: UL or lot no., Section, Township, Range, Lot Idn, Feet from the, North/South line, Feet from the, East/West line, County.

Table with 4 columns: Dedicated Acres, Joint or Infill, Consolidation Code, Order No.

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

Main plat diagram showing well location, sections 31 and 6, bearings, distances, and coordinates. Includes operator and surveyor certifications, a legend, and a footages table.

**DISTRICT I**  
1625 N. French Dr., Hobbs, N.M. 88240  
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**OIL CONSERVATION DIVISION**

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District Office

**DISTRICT III**  
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Phone: (505) 334-6178 Fax: (505) 334-6170

1220 South St. Francis Dr.  
Santa Fe, N.M. 87505

AMENDED REPORT

**DISTRICT IV**  
1220 S. St. Francis Dr., Santa Fe, N.M. 87505  
Phone: (505) 476-3480 Fax: (505) 476-3482

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number	<sup>2</sup> Pool Code 13160	<sup>3</sup> Pool Name Corbin, Bone Spring South
<sup>4</sup> Property Code	<sup>5</sup> Property Name EMERALD FEDERAL COM	<sup>6</sup> Well Number 505H
<sup>7</sup> OGRID No. 330396	<sup>8</sup> Operator Name AVANT OPERATING, LLC	<sup>9</sup> Elevation 3682.5

<sup>10</sup> Surface Location

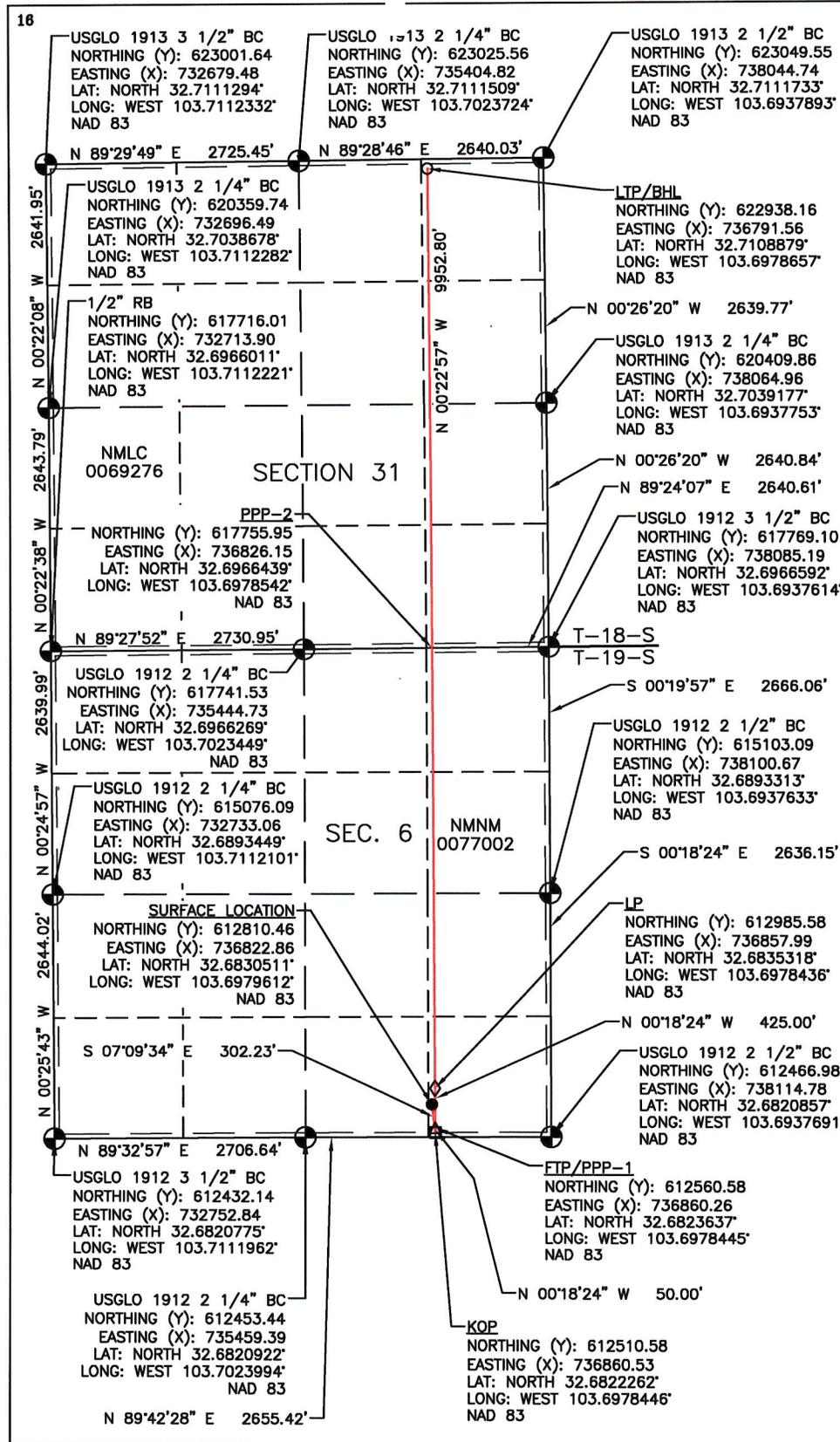
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	6	19 S	33 E		350	SOUTH	1290	EAST	LEA

<sup>11</sup> Bottom Hole 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
A	31	18 S	33 E		100	NORTH	1254	EAST	LEA

<sup>12</sup> Dedicated Acres 1342.98 Total Ac.	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
--	-------------------------------	----------------------------------	-------------------------

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



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

Signature \_\_\_\_\_ Date \_\_\_\_\_  
Printed Name \_\_\_\_\_  
E-mail Address \_\_\_\_\_

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

12/20/2024  
Date of Survey  
Signature and Seal of Professional Surveyor:  
  
Certificate Number 14831

- LEGEND:**
- = SURFACE LOCATION (SHL)
  - = KICK OFF POINT (KOP)
  - △ = FTP/PPP-1
  - ◇ = LANDING POINT (LP)
  - = LTP/BHL
  - ⊕ = FOUND MONUMENT

	FOOTAGES		
SHL	350' FSL	1290' FEL	
KOP	50' FSL	1254' FEL	
FTP/PPP-1	100' FSL	1254' FEL	
LP	525' FSL	1254' FEL	
PPP-2	0' FNL	1259' FEL	
LTP/BHL	100' FNL	1254' FEL	

DISTRICT I  
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DISTRICT II  
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Phone: (575) 748-1283 Fax: (575) 748-9720

OIL CONSERVATION DIVISION

Submit one copy to appropriate  
District Office

DISTRICT III  
1000 Rio Brazos Rd., Aztec, N.M. 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

1220 South St. Francis Dr.  
Santa Fe, N.M. 87505

AMENDED REPORT

DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, N.M. 87505  
Phone: (505) 476-3480 Fax: (505) 476-3482

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	<sup>2</sup> Pool Code 13160	<sup>3</sup> Pool Name Corbin, Bone Spring South
<sup>4</sup> Property Code	<sup>5</sup> Property Name EMERALD FEDERAL COM	<sup>6</sup> Well Number 506H
<sup>7</sup> OGRID No. 330396	<sup>8</sup> Operator Name AVANT OPERATING, LLC	<sup>9</sup> Elevation 3683.1

<sup>10</sup> Surface Location

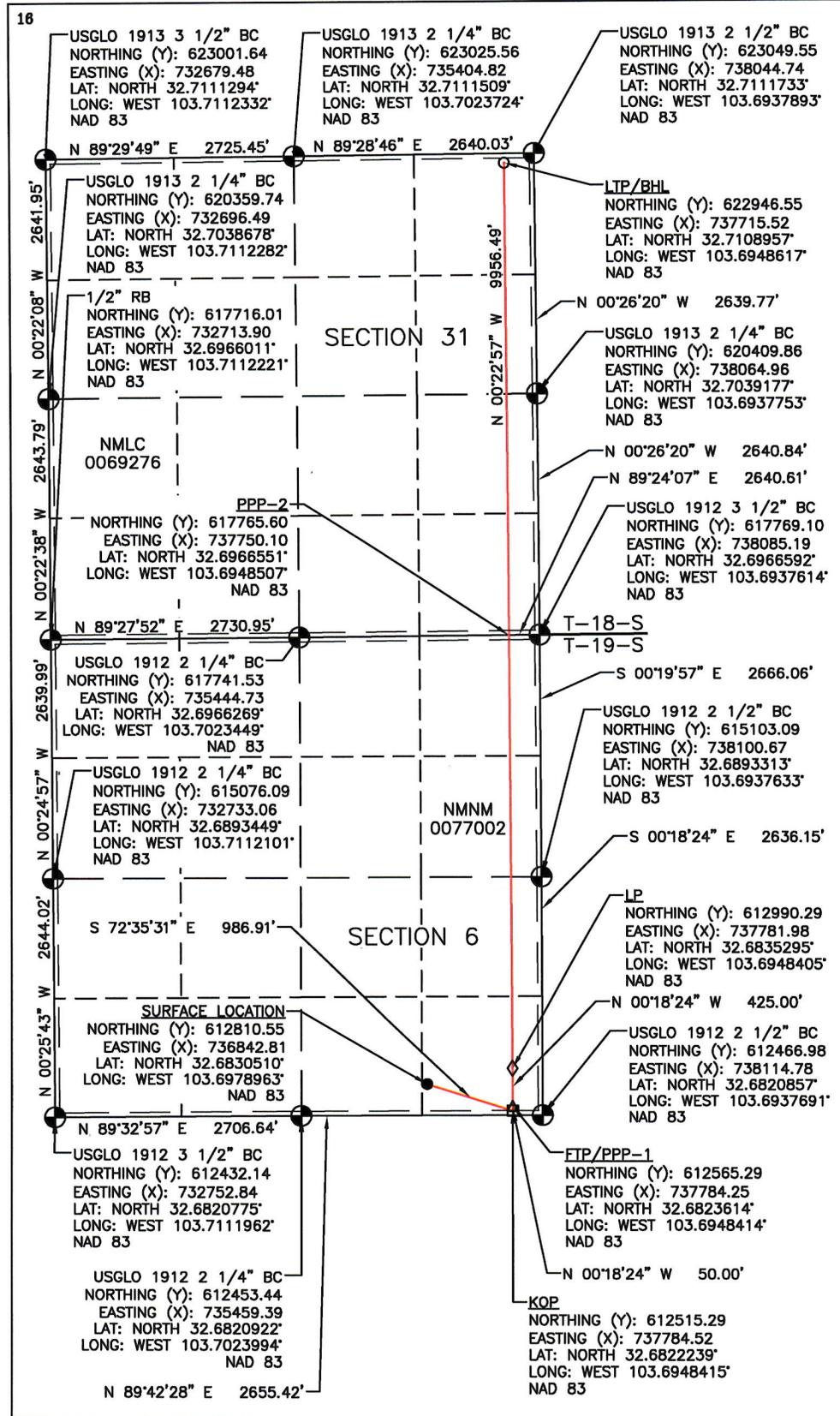
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	6	19 S	33 E		350	SOUTH	1270	EAST	LEA

<sup>11</sup> Bottom Hole 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
A	31	18 S	33 E		100	NORTH	330	EAST	LEA

<sup>12</sup> Dedicated Acres 1342.98 Total Ac.	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
--	-------------------------------	----------------------------------	-------------------------

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**17 OPERATOR CERTIFICATION**

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Signature \_\_\_\_\_ Date \_\_\_\_\_

Printed Name \_\_\_\_\_

E-mail Address \_\_\_\_\_

**18 SURVEYOR CERTIFICATION**

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

12/20/23 A VUKOVIĆ 18/224  
Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number 14831

**LEGEND:**

- = SURFACE LOCATION (SHL)
- = KICK OFF POINT (KOP)
- △ = FTP/PPP-1
- ◇ = LANDING POINT (LP)
- = LTP/BHL
- ⊕ = FOUND MONUMENT

FOOTAGES		
SHL	350' FSL	1270' FEL
KOP	50' FSL	330' FEL
FTP/PPP-1	100' FSL	330' FEL
LP	525' FSL	330' FEL
PPP-2	0' FNL	335' FEL
LTP/BHL	100' FNL	330' FEL

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Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102

Revised August 1, 2011

**OIL CONSERVATION DIVISION**

1220 South St. Francis Dr.  
Santa Fe, N.M. 87505

Submit one copy to appropriate  
District Office

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number		<sup>2</sup> Pool Code 13160		<sup>3</sup> Pool Name Corbin, Bone Spring South	
<sup>4</sup> Property Code		<sup>5</sup> Property Name EMERALD FEDERAL COM			<sup>6</sup> Well Number 305H
<sup>7</sup> OGRID No. 330396		<sup>8</sup> Operator Name AVANT OPERATING, LLC			<sup>9</sup> Elevation 3685.7

<sup>10</sup> Surface Location

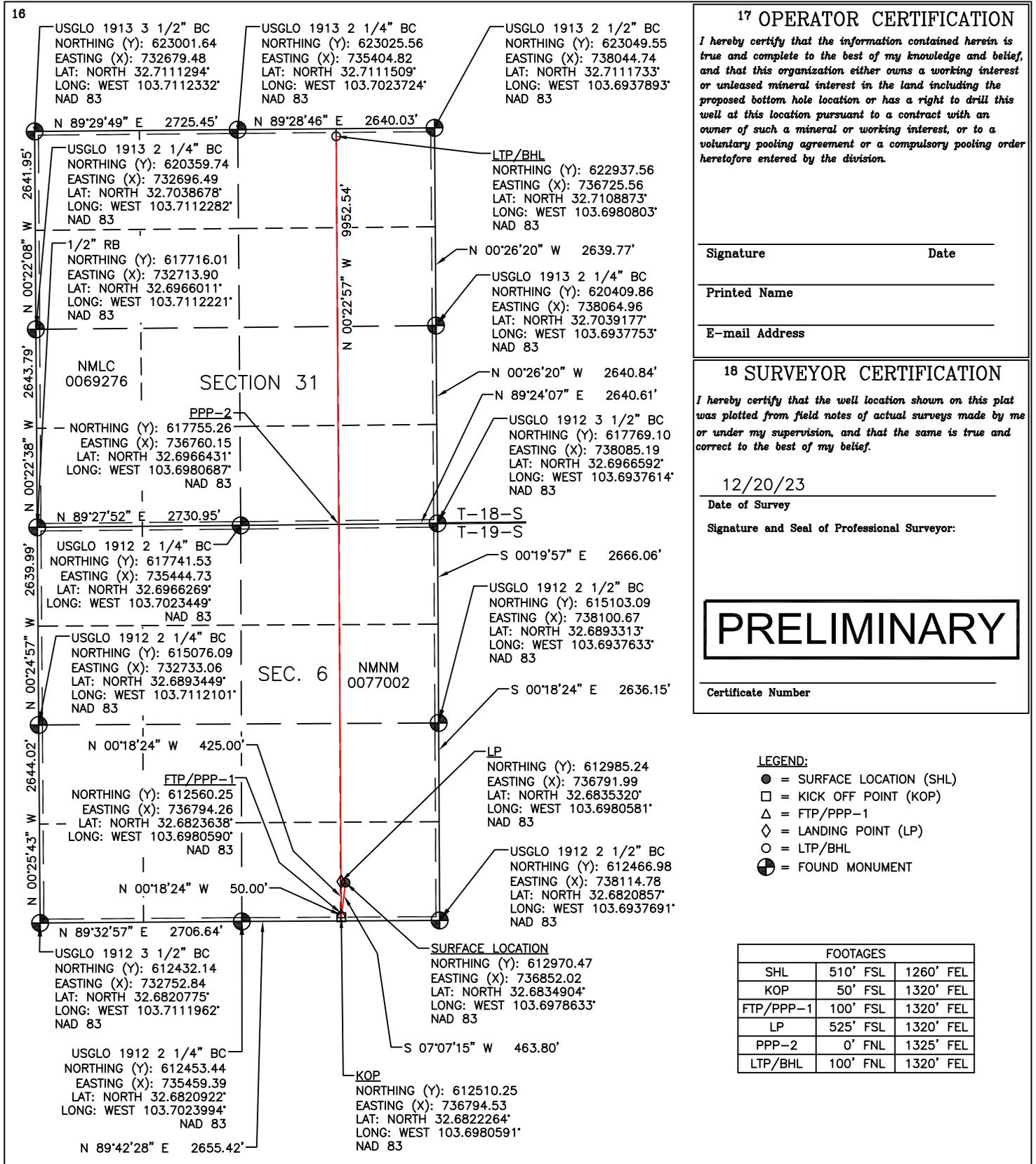
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	6	19 S	33 E		510	SOUTH	1260	EAST	LEA

<sup>11</sup> Bottom Hole 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
A	31	18 S	33 E		100	NORTH	1320	EAST	LEA

<sup>12</sup> Dedicated Acres 1342.98 Total Ac.	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
--	-------------------------------	----------------------------------	-------------------------

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Submit one copy to appropriate  
 District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number		<sup>2</sup> Pool Code 13160		<sup>3</sup> Pool Name Corbin, Bone Spring South	
<sup>4</sup> Property Code		<sup>5</sup> Property Name EMERALD FEDERAL COM			<sup>6</sup> Well Number 306H
<sup>7</sup> OGRID No. 330396		<sup>8</sup> Operator Name AVANT OPERATING, LLC			<sup>9</sup> Elevation 3685.9

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	6	19 S	33 E		510	SOUTH	1240	EAST	LEA

<sup>11</sup> Bottom Hole 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
A	31	18 S	33 E		100	NORTH	330	EAST	LEA

<sup>12</sup> Dedicated Acres 1342.98 Total Ac.	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
--	-------------------------------	----------------------------------	-------------------------

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

<sup>16</sup>

**<sup>17</sup> OPERATOR CERTIFICATION**

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

Signature \_\_\_\_\_ Date \_\_\_\_\_

Printed Name \_\_\_\_\_

E-mail Address \_\_\_\_\_

---

**<sup>18</sup> SURVEYOR CERTIFICATION**

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

12/20/23  
 Date of Survey \_\_\_\_\_

Signature and Seal of Professional Surveyor: \_\_\_\_\_

PRELIMINARY

Certificate Number \_\_\_\_\_

**LEGEND:**

- = SURFACE LOCATION (SHL)
- = KICK OFF POINT (KOP)
- △ = FTP/PPP-1
- ◇ = LANDING POINT (LP)
- = LTP/BHL
- ⊙ = FOUND MONUMENT

FOOTAGES		
SHL	510' FSL	1240' FEL
KOP	50' FSL	330' FEL
FTP/PPP-1	100' FSL	330' FEL
LP	525' FSL	330' FEL
PPP-2	0' FNL	335' FEL
LTP/BHL	100' FNL	330' FEL



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OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, N.M. 87505

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District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Table with 3 columns: API Number (30-025-50997), Pool Code (13160), Pool Name (Corbin, Bone Spring South), Property Code, Property Name (EMERALD FEDERAL COM), Well Number (514H), OGRID No. (330396), Operator Name (AVANT OPERATING, LLC), Elevation (3682)

10 Surface Location

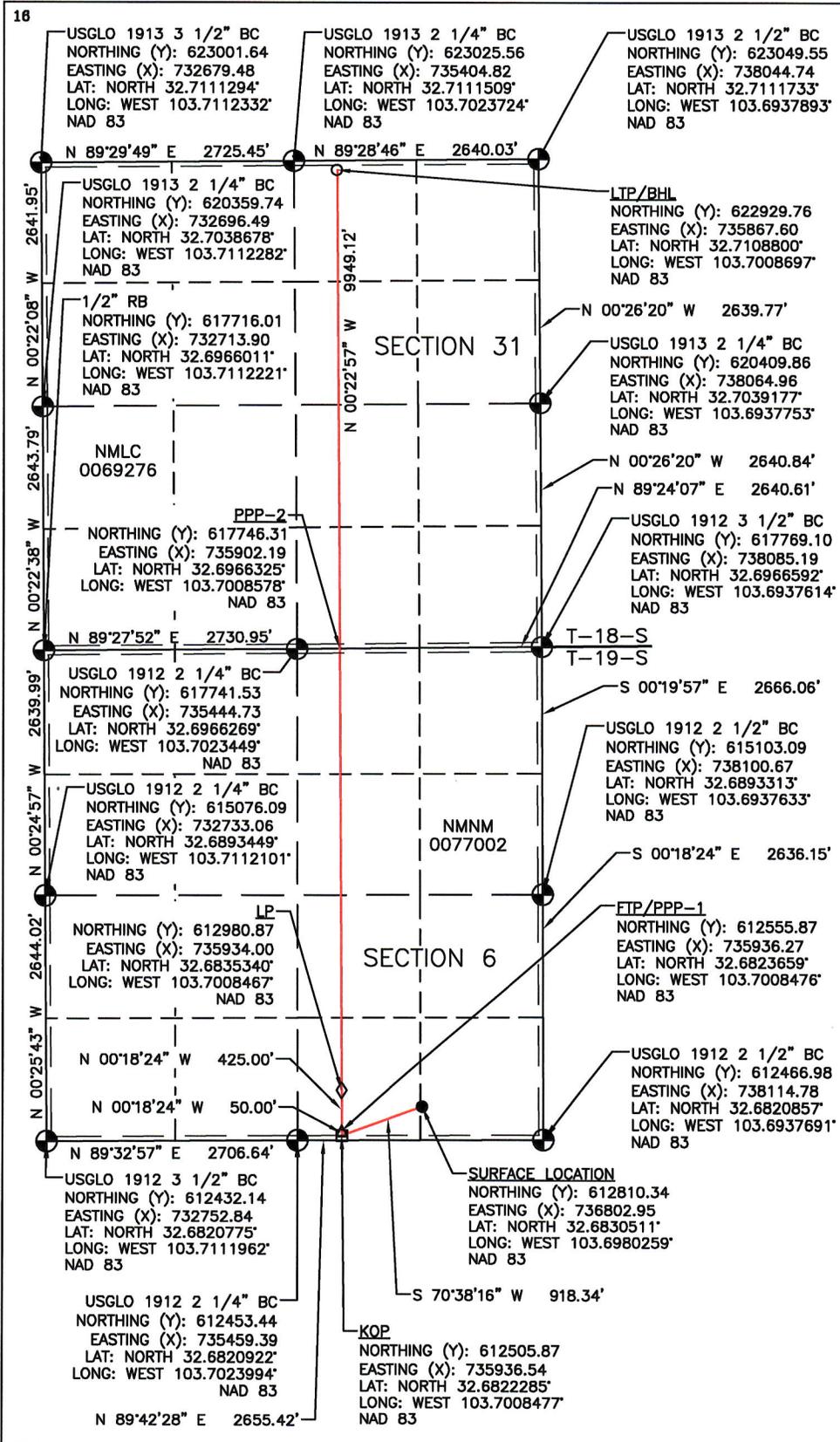
Table with 10 columns: UL or lot no. (P), Section (6), Township (19 S), Range (33 E), Lot Idn, Feet from the (350), North/South line (SOUTH), Feet from the (1310), East/West line (EAST), County (LEA)

11 Bottom Hole Location If Different From Surface

Table with 10 columns: UL or lot no. (B), Section (31), Township (18 S), Range (33 E), Lot Idn, Feet from the (100), North/South line (NORTH), Feet from the (2178), East/West line (EAST), County (LEA)

Table with 4 columns: Dedicated Acres (1342.98 Total Ac.), Joint or Infill, Consolidation Code, Order No.

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



17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
Signature \_\_\_\_\_ Date \_\_\_\_\_
Printed Name \_\_\_\_\_
E-mail Address \_\_\_\_\_

18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
Date of Survey 12/20/23
Signature and Seal of Professional Surveyor: [Seal of J. Vukobratovich, New Mexico Professional Surveyor, 14831]
Certificate Number 14831

- LEGEND:
● = SURFACE LOCATION (SHL)
□ = KICK OFF POINT (KOP)
△ = FTP/PPP-1
◇ = LANDING POINT (LP)
○ = LTP/BHL
⊙ = FOUND MONUMENT

FOOTAGES table with 2 columns: Footage Type and Footage Value. Rows include SHL (350' FSL, 1310' FEL), KOP (50' FSL, 2178' FEL), FTP/PPP-1 (100' FSL, 2178' FEL), LP (525' FSL, 2178' FEL), PPP-2 (0' FNL, 2183' FEL), LTP/BHL (100' FNL, 2178' FEL)

**DISTRICT I**  
1625 N. French Dr., Hobbs, N.M. 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

**DISTRICT II**  
811 S. First St., Artesia, N.M. 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

**DISTRICT III**  
1000 Rio Brazos Rd., Aztec, N.M. 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102

Revised August 1, 2011

**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, N.M. 87505

Submit one copy to appropriate  
District Office

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number		<sup>2</sup> Pool Code 13160		<sup>3</sup> Pool Name Corbin, Bone Spring South	
<sup>4</sup> Property Code		<sup>5</sup> Property Name EMERALD FEDERAL COM			<sup>6</sup> Well Number 304H
<sup>7</sup> OGRID No. 330396		<sup>8</sup> Operator Name AVANT OPERATING, LLC			<sup>9</sup> Elevation 3686.0

<sup>10</sup> Surface Location

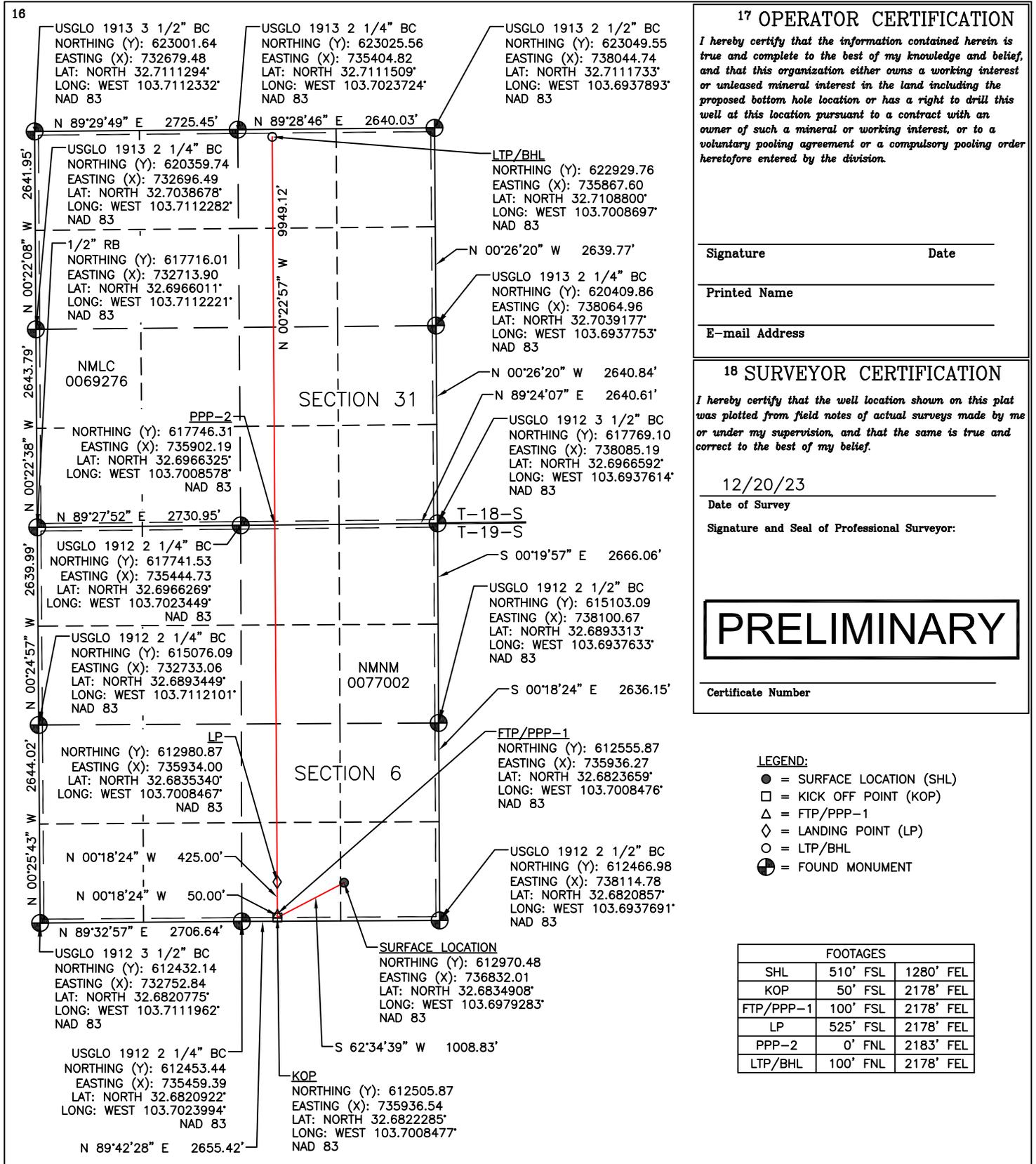
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	6	19 S	33 E		510	SOUTH	1280	EAST	LEA

<sup>11</sup> Bottom Hole 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
B	31	18 S	33 E		100	NORTH	2178	EAST	LEA

<sup>12</sup> Dedicated Acres 1342.98 Total Ac.	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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



# Lease Tract Map

Emerald Federal Com

#301H-#306H / #501-#516H / #601H-#606H

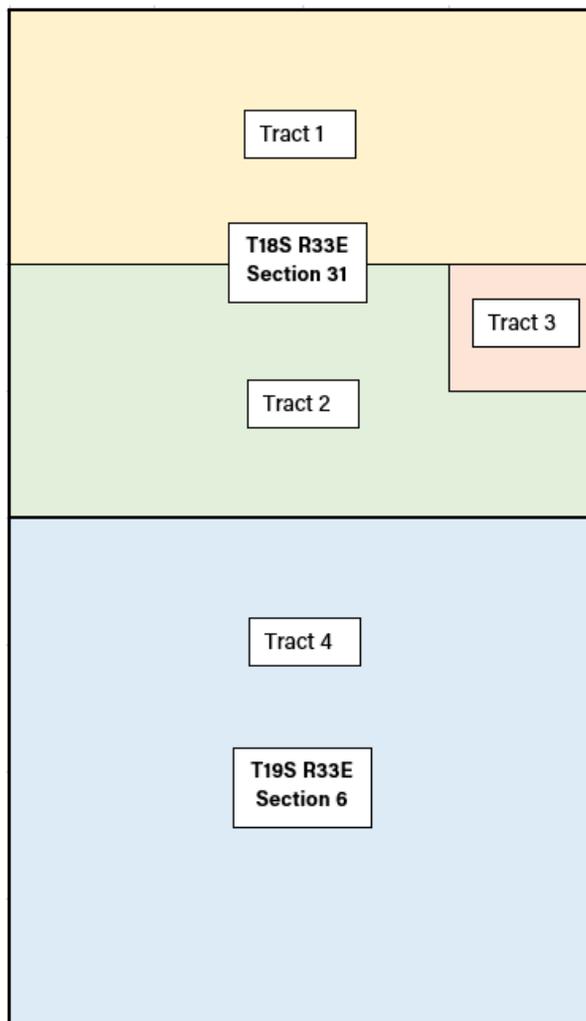
## Avant Operating, LLC

### Case Nos. 24376

### Exhibit C-3



Lease Tract Map: ALL of Section 31, Township 18 South, Range 33 East, N.M.P.M., & ALL of Section 6, Township 19 South, Range 33 East, N.M.P.M., Lea County, New Mexico



Tract	State/Fed/Fee	Lease	Acres
Tract 1	Fed	NMLC 0069276	325.37
Tract 2	Fed	NMLC 0069276	325.55
Tract 3	Fed	NMLC 0069276	40
Tract 4	Fed	NM 0077002	652.06

**Total Fed Acres: 1342.98**



# Tract Map - Locations

Emerald Federal Com

#301H-#306H / #501-#516H / #601H-#606H

Avant Operating, LLC

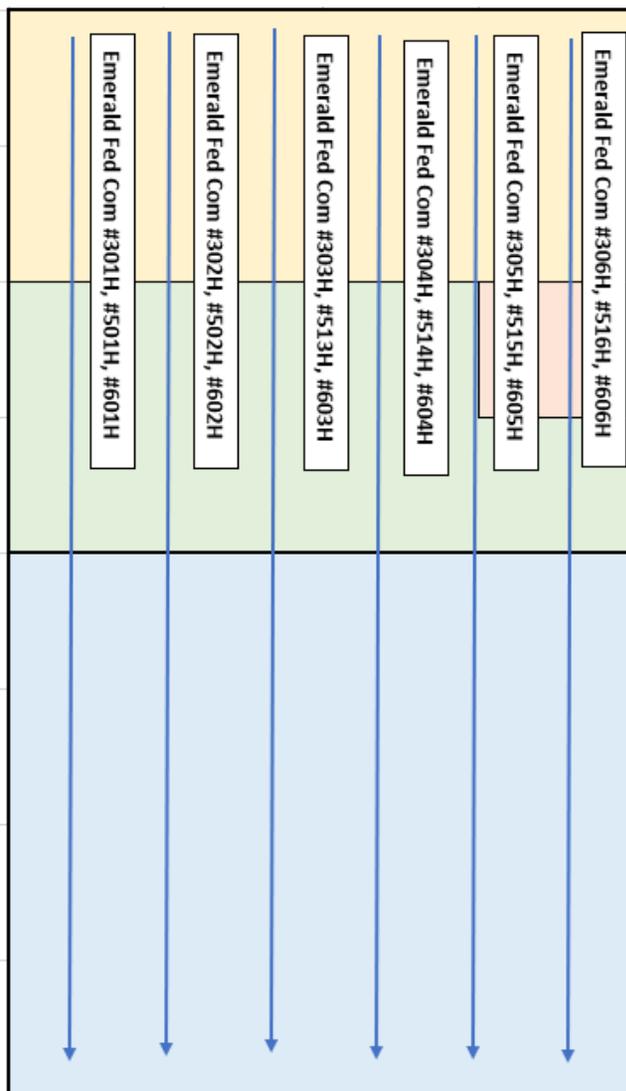
Case Nos. 24376

Exhibit C-3



ALL of Section 31, Township 18 South, Range 33 East, N.M.P.M., & ALL of Section 6, Township 19 South, Range 33 East, N.M.P.M., Lea County, New Mexico

## Tract Map with approx. well locations:



Tract	State/Fed/Fee	Lease	Acres
Tract 1	Fed	NMLC 0069276	325.37
Tract 2	Fed	NMLC 0069276	325.55
Tract 3	Fed	NMLC 0069276	40
Tract 4	Fed	NM 0077002	652.06

**Total Fed Acres: 1342.98**



Tract Ownership  
 Emerald Federal Com  
 #301H-#306H / #501-#516H / #601H-#606H

Avant Operating, LLC  
 Case Nos. 24376  
 Exhibit C-4



ALL of Section 31, Township 18 South, Range 33 East, N.M.P.M., & ALL of Section 6, Township 19 South, Range 33 East, N.M.P.M., Lea County, New Mexico

Tract	Lease	Lands	Tract Acres	Tract TPF	WI Owner	Tract WI	Tract NRI
1	NMLC 0069276	Sec 31 - N2	320	0.25	Francis H. Hudson, Trustee of Lindy's Living Trust	0.031250	0.027344
1	NMLC 0069276	Sec 31 - N2	320	0.25	Bank of America, Trustee of the Delmar Hudson Lewis Living Trust	0.031250	0.027344
1	NMLC 0069276	Sec 31 - N2	320	0.25	Josephine T. Hudson Testamentary Trust fbo J. Terrell Ard	0.010417	0.009115
1	NMLC 0069276	Sec 31 - N2	320	0.25	Javelina Partners	0.041667	0.036458
1	NMLC 0069276	Sec 31 - N2	320	0.25	Zorro Partners, Ltd.	0.041667	0.036458
1	NMLC 0069276	Sec 31 - N2	320	0.25	FR Energy, LLC	0.281250	0.208944
1	NMLC 0069276	Sec 31 - N2	320	0.25	Earthstone Permian, LLC	0.561306	0.417000
1	NMLC 0069276	Sec 31 - N2	320	0.25	Duadav Resources, LLC	0.000651	0.000484
1	NMLC 0069276	Sec 31 - N2	320	0.25	Timothy R. MacDonald	0.000326	0.000242
1	NMLC 0069276	Sec 31 - N2	320	0.25	Maverick Oil & Gas Corp.	0.000217	0.000161
						1.000000	

Tract	Lease	Lands	Tract Acres	Tract TPF	WI Owner	Tract WI	Tract NRI
2	NMLC 0069276	Sec 31 - SW, W2SE, SESE	280	0.21875	Francis H. Hudson, Trustee of Lindy's Living Trust	0.062500	0.054688
2	NMLC 0069276	Sec 31 - SW, W2SE, SESE	280	0.21875	Bank of America, Trustee of the Delmar Hudson Lewis Living Trust	0.062500	0.054688
2	NMLC 0069276	Sec 31 - SW, W2SE, SESE	280	0.21875	Josephine T. Hudson Testamentary Trust fbo J. Terrell Ard	0.010417	0.009115
2	NMLC 0069276	Sec 31 - SW, W2SE, SESE	280	0.21875	Javelina Partners	0.041667	0.036458
2	NMLC 0069276	Sec 31 - SW, W2SE, SESE	280	0.21875	Zorro Partners, Ltd.	0.041667	0.036458
2	NMLC 0069276	Sec 31 - SW, W2SE, SESE	280	0.21875	Magnum Hunter Production, Inc	0.250000	0.218750
2	NMLC 0069276	Sec 31 - SW, W2SE, SESE	280	0.21875	Roy G. Barton, Sr. and Opal Barton Revocable Trust	0.031250	0.027344
2	NMLC 0069276	Sec 31 - SW, W2SE, SESE	280	0.21875	Chisholm Energy Operating, Inc.	0.272806	0.203418
2	NMLC 0069276	Sec 31 - SW, W2SE, SESE	280	0.21875	Chisholm Energy Agent, LLC	0.226892	0.169182
2	NMLC 0069276	Sec 31 - SW, W2SE, SESE	280	0.21875	Timothy R. MacDonald	0.000181	0.000135
2	NMLC 0069276	Sec 31 - SW, W2SE, SESE	280	0.21875	Maverick Oil & Gas Corp.	0.000121	0.000090
						1.000000	



Tract Ownership  
 Emerald Federal Com  
 #301H-#306H / #501-#516H / #601H-#606H

Avant Operating, LLC  
 Case Nos. 24376  
 Exhibit C-4



ALL of Section 31, Township 18 South, Range 33 East, N.M.P.M., & ALL of Section 6, Township 19 South, Range 33 East,  
 N.M.P.M., Lea County, New Mexico

Tract	Lease	Lands	Tract Acres	Tract TPF	WI Owner	Tract WI	Tract NRI
3	NMLC 0069276	Sec 31 - NESE	40	0.03125	Francis H. Hudson, Trustee of Lindy's Living Trust	0.062500	0.054688
3	NMLC 0069276	Sec 31 - NESE	40	0.03125	Bank of America, Trustee of the Delmar Hudson Lewis Living Trust	0.062500	0.054688
3	NMLC 0069276	Sec 31 - NESE	40	0.03125	Josephine T. Hudson Testamentary Trust fbo J. Terrell Ard	0.010417	0.009115
3	NMLC 0069276	Sec 31 - NESE	40	0.03125	Javelina Partners	0.041667	0.036458
3	NMLC 0069276	Sec 31 - NESE	40	0.03125	Zorro Partners, Ltd.	0.041667	0.036458
3	NMLC 0069276	Sec 31 - NESE	40	0.03125	Magnum Hunter Production, Inc	0.250000	0.218750
3	NMLC 0069276	Sec 31 - NESE	40	0.03125	Roy G. Barton, Sr. and Opal Barton Revocable Trust	0.031250	0.027344
3	NMLC 0069276	Sec 31 - NESE	40	0.03125	Earthstone Permian, LLC	0.499698	0.372600
3	NMLC 0069276	Sec 31 - NESE	40	0.03125	Timothy R. MacDonald	0.000181	0.000135
3	NMLC 0069276	Sec 31 - NESE	40	0.03125	Maverick Oil & Gas Corp.	0.000121	0.000090

1.000000

Tract	Lease	Lands	Tract Acres	Tract TPF	WI Owner	Tract WI	Tract NRI
4	NMNM 0077002	Sec 6 - ALL	640	0.50	Legion Production Partners, LLC	0.595000	0.520625
4	NMNM 0077002	Sec 6 - ALL	640	0.50	Avant Operating, LLC	0.170000	0.148750
4	NMNM 0077002	Sec 6 - ALL	640	0.50	Double Cabin Minerals, LLC	0.085000	0.074375
4	NMNM 0077002	Sec 6 - ALL	640	0.50	Cibolo Oil & Gas	0.100000	0.087500
4	NMNM 0077002	Sec 6 - ALL	640	0.50	TH McElvain Oil & Gas LLLP	0.050000	0.043750

1.000000



## Summary of Interests

Emerald Federal Com

#301H-#306H / #501-#516H / #601H-#606H

Avant Operating, LLC

Case Nos. 24376

Exhibit C-4



ALL of Section 31, Township 18 South, Range 33 East, N.M.P.M., & ALL of Section 6, Township 19 South, Range 33 East, N.M.P.M., Lea County, New Mexico

### Summary of Interests and Working Interest Owners to be Pooled:

**COMMITTED INTEREST**

WI OWNER	WI	Net Acres	Tract No	STATUS
<b>Avant Operating, LLC</b>	<b>29.75%</b>	<b>399.54</b>	<b>4</b>	<b>Operator</b>
Legion Production Partners, LLC	8.50%	114.15	4	Committed
Double Cabin Minerals, LLC	4.25%	57.08	4	Committed
T.H. McElvain Oil & Gas LLLP	2.50%	33.57	4	Committed
Cibolo Resources, LLC	5.00%	67.15	4	Committed
FR Energy, LLC	7.03%	94.43	1	Committed
Javelina Partners	2.08%	27.98	1, 2, 3	Committed
Zorro Partners, Ltd.	2.08%	27.98	1, 2, 3	Committed
Roy G. Barton, Sr. and Opal Barton Revocable Trust	0.78%	10.49	2 & 3	Committed
	<b>61.98%</b>	<b>832.37</b>		



Summary of Interests

Emerald Federal Com

#301H-#306H / #501-#516H / #601H-#606H

Avant Operating, LLC

Case Nos. 24376

Exhibit C-4



ALL of Section 31, Township 18 South, Range 33 East, N.M.P.M., & ALL of Section 6, Township 19 South, Range 33 East, N.M.P.M., Lea County, New Mexico

Summary of Interests and Working Interest Owners to be Pooled:

UMCOMMITTED INTEREST

WI OWNER	WI	Net Acres	Tract No	FORCE POOL INTEREST
Francis H. Hudson, Trustee of Lindy's Living Trust	2.34%	31.48	1, 2, 3	Uncommitted
Bank of America, Trustee of the Delmar Hudson Lewis Living Trust	2.34%	31.48	1, 2, 3	Uncommitted
Josephine T. Hudson Testamentary Trust fbo J. Terrell Ard	0.52%	6.99	1, 2, 3	Uncommitted
Earthstone Permian, LLC	15.59%	209.43	1 & 3	Uncommitted
Duadav Resources, LLC	0.02%	0.22	1	Uncommitted
Timothy R. MacDonald	0.01%	0.17	1, 2, 3	Uncommitted
Maverick Oil & Gas Corp.	0.01%	0.11	1, 2, 3	Uncommitted
Magnum Hunter Production, Inc	6.25%	83.94	2 & 3	Uncommitted
Chisholm Energy Operating, Inc.	5.97%	80.14	2	Uncommitted
Chisholm Energy Agent, LLC	4.96%	66.66	2	Uncommitted
	<b>38.02%</b>	<b>510.61</b>		



## Summary of Interests

Emerald Federal Com

#301H-#306H / #501-#516H / #601H-#606H

Avant Operating, LLC

Case Nos. 24376

Exhibit C-4



ALL of Section 31, Township 18 South, Range 33 East, N.M.P.M., & ALL of Section 6, Township 19 South, Range 33 East, N.M.P.M., Lea County, New Mexico

### Summary of ORRI Owners to be Pooled:

ORRI OWNER	Tract No
Ard Oil, Ltd.	1, 2, 3
Pamela Burke, Trustee of the Claire Ann Iverson Revocable Living Trust	1, 2, 3
Pamela Burke, Trustee of the Siegfried James Iverson, III Revocable Living Trust	1, 2, 3
Pamela Burke, Trustee of the EGP Revocable Living Trust	1, 2, 3
Pamela Burke, Trustee of the KIP Revocable Living Trust	1, 2, 3
TIG Properties, LP	1, 2, 3
Hanaco, LLC	1, 2, 3
Hanagan Investment, LLC	1, 2, 3
Magnum Hunter Production, Inc.	1
Dan M. Leonard as Trustee of the DML Revocable Trust dated 1/10/2007	1, 2, 3

ORRI OWNER	Tract No
LML Properties, LLC	1, 2, 3
Red River Energy Partners, LLC	1, 2, 3
New Tex Oil Co.	1, 2, 3
Michael Harrison Moore, Trustee of the Michael Harrison Moore 2006 Trust under Third Amendment and Restatement of the Moore Trust dated December 15, 1998	1, 2, 3
Richard Lyons Moore, Trustee of the Richard Lyons Moore 2006 Trust under Third Amendment and Restatement of the Moore Trust dated December 15, 1998	1, 2, 3
Roy G. Barton, Jr.; Trustee of the Roy G. Barton, Sr and Opal Barton Revocable Trust	1
MAP2004-OK, GP	1, 2, 3
Nearburg Producing Company Employee Fund	1, 2, 3
MaryNellis and/or her successors-in-interest	4



Summary of Interests

Emerald Federal Com

#301H-#306H / #501-#516H / #601H-#606H

Avant Operating, LLC

Case Nos. 24376

Exhibit C-4



ALL of Section 31, Township 18 South, Range 33 East, N.M.P.M., & ALL of Section 6, Township 19 South, Range 33 East, N.M.P.M., Lea County, New Mexico

Last Known Address of the Interested Parties:

OWNER NAME	ADDRESS	INTEREST TYPE	Tract
Cibolo Resources, LLC	3600 Bee Cave Road, Suite 102 West Lake Hills, TX 78746	WI	4 - Section 6
TH McElvain Oil & Gas LLLP	1819 Denver West Drive, Suite 260 Lakewood, CO 80401	WI	4 - Section 6
Francis H. Hudson, Trustee of Lindy's Living Trust	215 West Bandera Road, Suite 114-620 Boerne, TX 78006	WI, ORRI	1, 2, 3 - Section 31
Bank of America, Trustee of the Delmar Hudson Lewis Living Trust u/t/a dated 9/9/2002	3301 Riverwell Ct. Ft. Worth, Texas 76116	WI, ORRI	1, 2, 3 - Section 31
Frost Bank, Trustee of the Josephine T. Hudson Testamentary Trust fbo J. Terrell Ard	Frost Bank as Trustee PO Box 1600 San Antonio, Texas 78296	WI	1, 2, 3 - Section 31
Javelina Partners	616 Texas St. Ft. Worth, Texas 76102	WI	1, 2, 3 - Section 31
Zorro Partners, Ltd.	616 Texas St. Ft. Worth, Texas 76102	WI	1, 2, 3 - Section 31
FR Energy, LLC	1106 Witte Road, Suite 400 Houston, TX 77055	WI	1 - Section 31
Earthstone Permian, LLC	300 N. Marienfeld St., Ste. 1000 Midland, TX 79701	WI	1 & 3 - Section 31
Timothy R. MacDonald	3017 Avenue O Galveston, Texas 77550	WI	1, 2, 3 - Section 31
Maverick Oil & Gas Corp.	PO Box 823085 Dallas, Texas 75382	WI	1, 2, 3 - Section 31



## Summary of Interests

Emerald Federal Com

#301H-#306H / #501-#516H / #601H-#606H

Avant Operating, LLC

Case Nos. 24376

Exhibit C-4



ALL of Section 31, Township 18 South, Range 33 East, N.M.P.M., & ALL of Section 6, Township 19 South, Range 33 East,  
N.M.P.M., Lea County, New Mexico

## Last Known Address of the Interested Parties:

Owner Name	Address	Interest Type	Tract
Cibolo Resources, LLC	3600 Bee Cave Road, Suite 102 West Lake Hills, TX 78746	WI	4
TH McElvain Oil & Gas LLLP	1819 Denver West Drive, Suite 260 Lakewood, CO 80401	WI	4
Francis H. Hudson, Trustee of Lindy's Living Trust	215 West Bandera Road, Suite 114-620 Boerne, TX 78006	WI, ORRI	1, 2, 3
Bank of America, Trustee of the Delmar Hudson Lewis Living Trust u/t/a dated 9/9/2002	3301 Riverwell Ct. Ft. Worth, Texas 76116	WI, ORRI	1, 2, 3
Frost Bank, Trustee of the Josephine T. Hudson Testamentary Trust fbo J. Terrell Ard	Frost Bank as Trustee PO Box 1600 San Antonio, Texas 78296	WI	1, 2, 3
Javelina Partners	616 Texas St. Ft. Worth, Texas 76102	WI	1, 2, 3
Zorro Partners, Ltd.	616 Texas St. Ft. Worth, Texas 76102	WI	1, 2, 3
FR Energy, LLC	1106 Witte Road, Suite 400 Houston, TX 77055	WI	1
Earthstone Permian, LLC	300 N. Marienfeld St., Ste. 1000 Midland, TX 79701	WI	1 & 3
Timothy R. MacDonald	3017 Avenue O Galveston, Texas 77550	WI	1, 2, 3
Maverick Oil & Gas Corp.	PO Box 823085 Dallas, Texas 75382	WI	1, 2, 3
Magnum Hunter Production, Inc	6001 Deauville Blvd, Suite 300N Midland, TX 79706	WI	2 & 3
Chisholm Energy Operating, Inc.	300 N. Marienfeld St., Ste. 1000 Midland, TX 79701	WI	2
Roy G. Barton, Sr. and Opal Barton Revocable Trust	1919 N Turner St Hobbs, NM 88240	WI	2 & 3
Duadav Resources, LLC	6441 Waggoner Dr. Dallas, Texas 75230	WI	1
Chisholm Energy Agent, LLC	300 N. Marienfeld St., Ste. 1000 Midland, TX 79701	WI	2
Ard Oil, Ltd.	222 W 4th St. PH 5 Ft. Worth, Texas 76102	ORRI	1, 2, 3
Pamela Burke, Trustee of the Claire Ann Iverson Revocable Living Trust	PO Box 10508 Midland, Texas 79702	ORRI	1, 2, 3
Pamela Burke, Trustee of the Siegfried James Iverson, III Revocable Living Trust	PO Box 10508 Midland, Texas 79702	ORRI	1, 2, 3

Owner Name	Address	Interest Type	Tract
Pamela Burke, Trustee of the EGP Revocable Living Trust	PO Box 10508 Midland, Texas 79702	ORRI	1, 2, 3
Pamela Burke, Trustee of the KIP Revocable Living Trust	PO Box 10508 Midland, Texas 79702	ORRI	1, 2, 3
TIG Properties, LP	PO Box 10508 Midland, Texas 79702	ORRI	1, 2, 3
Hanaco, LLC	PO Box 746 Big Horn, Wyoming 82833	ORRI	1, 2, 3
Hanagan Investment, LLC	PO Box 1737 Roswell, New Mexico 88202	ORRI	1, 2, 3
Magnum Hunter Production, Inc.	840 Gessner Rd., Ste 1400 Houston, Texas 77024	ORRI	1
Dan M. Leonard as Trustee of the DML Revocable Trust dated 1/10/2007	PO Box 3422 Midland, Texas 79702	ORRI	1, 2, 3
LML Properties, LLC	PO Box 3194 Boulder, Colorado 80307	ORRI	1, 2, 3
Red River Energy Partners, LLC	PO Box 2455 Midland, Texas 79702	ORRI	1, 2, 3
New Tex Oil Co.	PO Box 297 Hobbs, New Mexico 88241	ORRI	1, 2, 3
Michael Harrison Moore, Trustee of the Michael Harrison Moore 2006 Trust under Third Amendment and Restatement of the Moore Trust dated December 15, 1998	PO Box 51570 Midland, Texas 79710	ORRI	1, 2, 3
Richard Lyons Moore, Trustee of the Richard Lyons Moore 2006 Trust under Third Amendment and Restatement of the Moore Trust dated December 15, 1998	16400 Dallas Pkwy., Ste. 400 Dallas, Texas 75248	ORRI	1, 2, 3
Roy G. Barton, Jr.; Trustee of the Roy G. Barton, Sr and Opal Barton Revocable Trust	PO Box 978 Hobbs, New Mexico 88240	ORRI	1
MAP2004-OK, GP	101 N. Robinson, Ste. 1000 Oklahoma City, Oklahoma 73102	ORRI	1, 2, 3
Nearburg Producing Company Employee Fund	PO Box 823085 Dallas, Texas 75382	ORRI	1, 2, 3
Mary Nellis and/or her successors-in-interest	907 West Main Street Artesia, NM 88210	ORRI	4

# Non-Standard Unit Notice

Emerald Federal Com

#301H-#306H / #501-#516H / #601H-#606H

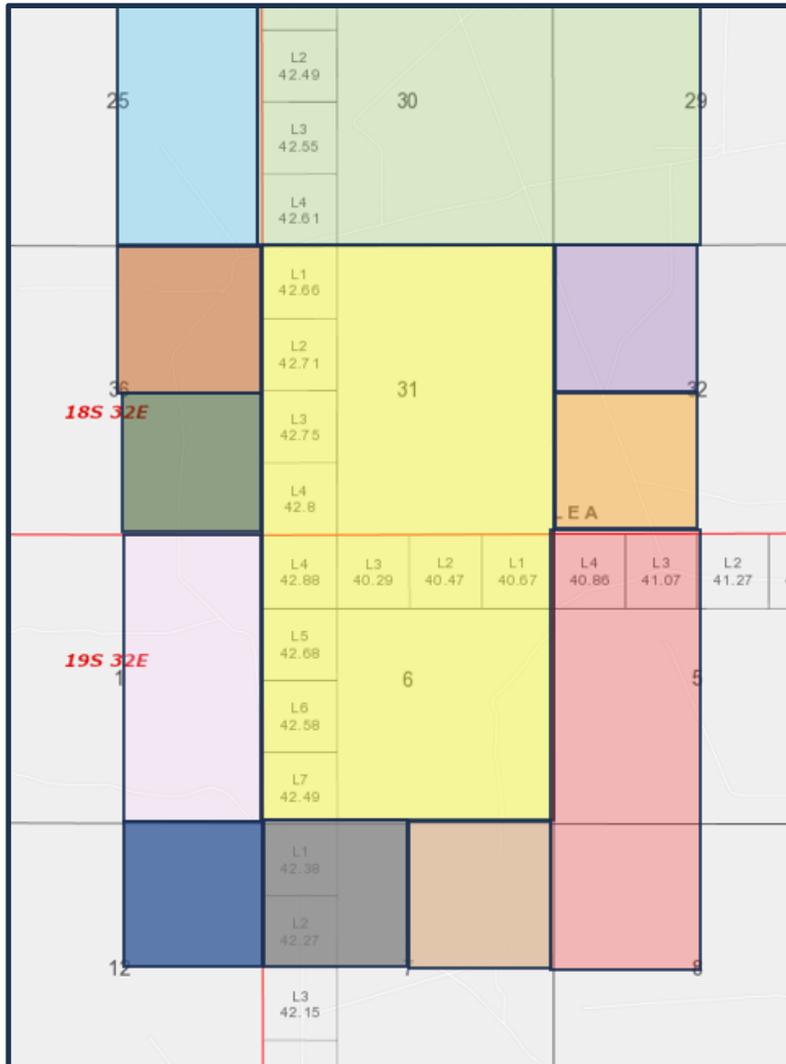
Avant Operating, LLC

Case Nos. 24376

Exhibit C-5



ALL of Section 31, Township 18 South, Range 33 East, N.M.P.M., & ALL of Section 6, Township 19 South, Range 33 East, N.M.P.M., Lea County, New Mexico



WI Owners Noticed in Emerald Fed Com	
Lands	Owner
T18S R33E Sec 31	Francis H. Hudson, Trustee of Lindy's Living Trust
	Bank of America, Trustee of the Delmar Hudson Lewis Living Trust
	Josephine T. Hudson Testamentary Trust fbo J. Terrell Ard
	Javelina Partners
	Zorro Partners, Ltd.
	FR Energy, LLC
	Earthstone Permian, LLC
	Duadav Resources, LLC
	Timothy R. MacDonald
	Maverick Oil & Gas Corp.
	Magnum Hunter Production, Inc
	Chisholm Energy Operating, Inc.
	Roy G. Barton, Sr. and Opal Barton Revocable Trust
Chisholm Energy Agent, LLC	
T19S R33E Sec 6	Legion Production Partners, LLC
	Avant Operating, LLC
	Double Cabin Minerals, LLC
	Cibolo Oil & Gas
	TH McElvain Oil & Gas LLLP



# Non-Standard Unit Notice

Emerald Federal Com

#301H-#306H / #501-#516H / #601H-#606H

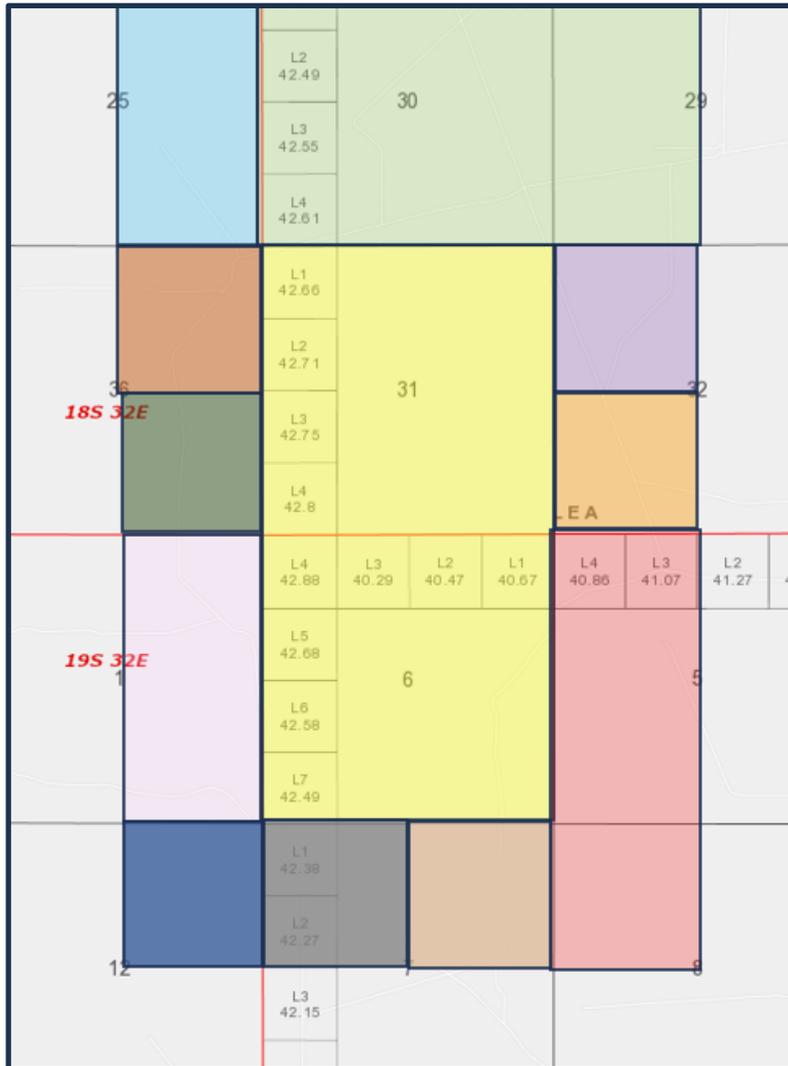
Avant Operating, LLC

Case Nos. 24376

Exhibit C-5



ALL of Section 31, Township 18 South, Range 33 East, N.M.P.M., & ALL of Section 6, Township 19 South, Range 33 East, N.M.P.M., Lea County, New Mexico



Operators/Lessees in Adjacent Tracts Noticed	
Lands	Owner
T18S R32E Sec 25: SE4 & W2NE	BTA Oil Producers, LLC
	French Land & Cattle LTD
	Viersen Oil & Gas Co
T18S R33E Sec 30 & 29	Iverson S J Trust
	M W Iverson Trust
	Lindy's Living Trust
	Javelina Partners
	Zorro Partners LTD
T18S R33E Sec 32: NW4	Edward R Hudson Trust
	J T Hudson Trust fbo J T Ard
T18S R33E Sec 32: SW4	Chisholm Energy Operating
T18S R33E Sec 32: SW4	Chisholm Energy Operating
T19S R33E Sec 5 & 8	ConocoPhillips Company
T19S R33E Sec 7: NE4	Occidental Permian LP
T19S R33E Sec 7: NW4	EOG Resources Inc
	Occidental Permian LP
T19S R32E Sec 12: N2	COG Operating LLC
	Los Siete Exploration
	Seal H Cavin Inc
T19S R32E Sec 1: E2	Upland Production Co
T19S R32E Sec 1: E2	XTO Holdings LLC
T18S R32E Sec 36: NE	Mewbourne Oil
T18S R32E Sec 36: SE	Avant Operating, LLC





January 22, 2024

Sent via USPS

Cibolo Oil & Gas  
5914 W Courtyard Drive, Suite 200  
Austin, TX 78730

RE: Emerald Fed Com #301H, #302H, #303H, #304H, #305H, #306H  
#501H, #502H, #513H, #514H, #505H, #506H  
#601H, #602H, #603H, #604H, #605H, #606H  
Section 31, T18S R33E & Section 6, T19S R33E  
Lea County, New Mexico

Ladies and Gentlemen:

Avant Operating, LLC ("Avant") hereby proposes to drill and complete the Emerald Fed Com #301H, #302H, #303H, #304H, #305H, #306H, #501H, #502H, #513H, #514H, #505H, #506H, #601H, #602H, #603H, #604H, #605H, and #606H wells in Section 31, Township 18 South, Range 33 East and Section 6, Township 19 South, Range 33 East, Lea County, New Mexico.

In connection with the above, please note the following:

- The estimated cost of drilling, testing, completing, and equipping of each proposed well is itemized on the enclosed Authority for Expenditures ("AFE").
- **Emerald Fed Com #301H:** to be drilled from a legal location of Section 6-19S-33E. The Well will have a targeted interval within the Bone Springs formation at a depth of approximately 8,800' TVD and will be drilled horizontally to a Measured Depth of approximately 19,073'.
- **Emerald Fed Com #302H:** to be drilled from a legal location of Section 6-19S-33E. The Well will have a targeted interval within the Bone Springs formation at a depth of approximately 8,800' TVD and will be drilled horizontally to a Measured Depth of approximately 19,073'.
- **Emerald Fed Com #303H:** to be drilled from a legal location of Section 6-19S-33E. The Well will have a targeted interval within the Bone Springs formation at a depth of approximately 8,800' TVD and will be drilled horizontally to a Measured Depth of approximately 19,073'.
- **Emerald Fed Com #304H:** to be drilled from a legal location of Section 6-19S-33E. The Well will have a targeted interval within the Bone Springs formation at a depth of approximately 8,800' TVD and will be drilled horizontally to a Measured Depth of approximately 19,073'.

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- **Emerald Fed Com #305H:** to be drilled from a legal location of Section 6-19S-33E. The Well will have a targeted interval within the Bone Springs formation at a depth of approximately 8,800' TVD and will be drilled horizontally to a Measured Depth of approximately 19,073'.
- **Emerald Fed Com #306H:** to be drilled from a legal location of Section 6-19S-33E. The Well will have a targeted interval within the Bone Springs formation at a depth of approximately 8,800' TVD and will be drilled horizontally to a Measured Depth of approximately 19,073'.
- **Emerald Fed Com #501H:** to be drilled from a legal location of Section 6-19S-33E. The Well will have a targeted interval within the Bone Spring formation at a depth of approximately 9,800' TVD and will be drilled horizontally to a Measured Depth of approximately 20,173'.
- **Emerald Fed Com #502H:** to be drilled from a legal location of Section 6-19S-33E. The Well will have a targeted interval within the Bone Spring formation at a depth of approximately 9,800' TVD and will be drilled horizontally to a Measured Depth of approximately 20,173'.
- **Emerald Fed Com #513H:** to be drilled from a legal location of Section 6-19S-33E. The Well will have a targeted interval within the Bone Spring formation at a depth of approximately 9,800' TVD and will be drilled horizontally to a Measured Depth of approximately 20,173'.
- **Emerald Fed Com #514H:** to be drilled from a legal location of Section 6-19S-33E. The Well will have a targeted interval within the Bone Spring formation at a depth of approximately 9,800' TVD and will be drilled horizontally to a Measured Depth of approximately 20,173'.
- **Emerald Fed Com #505H:** to be drilled from a legal location of Section 6-19S-33E. The Well will have a targeted interval within the Bone Spring formation at a depth of approximately 9,800' TVD and will be drilled horizontally to a Measured Depth of approximately 20,173'.
- **Emerald Fed Com #506H:** to be drilled from a legal location of Section 6-19S-33E. The Well will have a targeted interval within the Bone Spring formation at a depth of approximately 9,800' TVD and will be drilled horizontally to a Measured Depth of approximately 20,173'.
- **Emerald Fed Com #601H:** to be drilled from a legal location of Section 6-19S-33E. The Well will have a targeted interval within the Bone Spring formation at a depth of approximately 10,500' TVD and will be drilled horizontally to a Measured Depth of approximately 20,773'.
- **Emerald Fed Com #602H:** to be drilled from a legal location of Section 6-19S-33E. The Well will have a targeted interval within the Bone Spring formation at a depth of approximately 10,500' TVD and will be drilled horizontally to a Measured Depth of approximately 20,773'.
- **Emerald Fed Com #603H:** to be drilled from a legal location of Section 6-19S-33E. The Well will have a targeted interval within the Bone Spring formation at a depth of approximately 10,500' TVD and will be drilled horizontally to a Measured Depth of approximately 20,773'.

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- **Emerald Fed Com #604H:** to be drilled from a legal location of Section 6-19S-33E. The Well will have a targeted interval within the Bone Spring formation at a depth of approximately 10,500' TVD and will be drilled horizontally to a Measured Depth of approximately 20,773'.
- **Emerald Fed Com #605H:** to be drilled from a legal location of Section 6-19S-33E. The Well will have a targeted interval within the Bone Spring formation at a depth of approximately 10,500' TVD and will be drilled horizontally to a Measured Depth of approximately 20,773'.
- **Emerald Fed Com #606H:** to be drilled from a legal location of Section 6-19S-33E. The Well will have a targeted interval within the Bone Spring formation at a depth of approximately 10,500' TVD and will be drilled horizontally to a Measured Depth of approximately 20,773'.

Avant reserves the right to modify the locations and drilling plans described above to address topography, cultural or environmental concerns, among other reasons.

Avant is proposing to drill the proposed wells under the terms of a modified 1989 AAPL form of Operating Agreement ("JOA"). This JOA will be sent to you following this proposal with the following general provisions:

- 100%/300%/300% non-consent penalty
- \$10,000/\$1000 drilling and producing monthly overhead rates
- Contract Area of Section 6-T19S-R33E and Section 31-T18S-R33E
- This proposed Operating Agreement will supersede any and all existing Operating Agreements as to all depths on all horizontal wells drilled after the effective date of the JOA.

If we do not reach an agreement within thirty (30) days of receipt of these well proposals, Avant will file an application(s) with the New Mexico Oil Conservation Division to compulsory pool your interest into a spacing unit(s) for the proposed wells to promote the development of these lands.

Please indicate your elections in the spaces provided on the following pages. If you elect to participate in the drilling and completion of the wells proposed herein, please sign, and return a copy of this letter along with the enclosed AFEs within thirty (30) days of receipt of this proposal.

In the event you do not wish to participate in this proposed development and would be interested in selling your interest, please let us know. Should you have any questions, please contact the undersigned at [sophia@avantnr.com](mailto:sophia@avantnr.com) or (303) 519-2870.

Sincerely,

A handwritten signature in blue ink, appearing to read "Sophia Guerra".

Sophia Guerra  
Senior Landman

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**Cibolo Oil & Gas elects as follows:**

**Emerald Fed Com #301H:**

\_\_\_\_\_ I/We hereby elect to participate in the **Emerald Fed Com #301H** well.  
\_\_\_\_\_ I/We hereby elect **NOT** to participate in the **Emerald Fed Com #301H** well.

**Emerald Fed Com #302H:**

\_\_\_\_\_ I/We hereby elect to participate in the **Emerald Fed Com #302H** well.  
\_\_\_\_\_ I/We hereby elect **NOT** to participate in the **Emerald Fed Com #302H** well.

**Emerald Fed Com #303H:**

\_\_\_\_\_ I/We hereby elect to participate in the **Emerald Fed Com #303H** well.  
\_\_\_\_\_ I/We hereby elect **NOT** to participate in the **Emerald Fed Com #303H** well.

**Emerald Fed Com #304H:**

\_\_\_\_\_ I/We hereby elect to participate in the **Emerald Fed Com #304H** well.  
\_\_\_\_\_ I/We hereby elect **NOT** to participate in the **Emerald Fed Com #304H** well.

**Emerald Fed Com #305H:**

\_\_\_\_\_ I/We hereby elect to participate in the **Emerald Fed Com #305H** well.  
\_\_\_\_\_ I/We hereby elect **NOT** to participate in the **Emerald Fed Com #305H** well.

**Emerald Fed Com #306H:**

\_\_\_\_\_ I/We hereby elect to participate in the **Emerald Fed Com #306H** well.  
\_\_\_\_\_ I/We hereby elect **NOT** to participate in the **Emerald Fed Com #306H** well.

**Emerald Fed Com #501H:**

\_\_\_\_\_ I/We hereby elect to participate in the **Emerald Fed Com #501H** well.  
\_\_\_\_\_ I/We hereby elect **NOT** to participate in the **Emerald Fed Com #501H** well.

**Emerald Fed Com #502H:**

\_\_\_\_\_ I/We hereby elect to participate in the **Emerald Fed Com #502H** well.  
\_\_\_\_\_ I/We hereby elect **NOT** to participate in the **Emerald Fed Com #502H** well.

**Emerald Fed Com #513H:**

\_\_\_\_\_ I/We hereby elect to participate in the **Emerald Fed Com #513H** well.  
\_\_\_\_\_ I/We hereby elect **NOT** to participate in the **Emerald Fed Com #513H** well.

**Emerald Fed Com #514H:**

\_\_\_\_\_ I/We hereby elect to participate in the **Emerald Fed Com #514H** well.  
\_\_\_\_\_ I/We hereby elect **NOT** to participate in the **Emerald Fed Com #514H** well.

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**Emerald Fed Com #505H:**

\_\_\_\_\_ I/We hereby elect to participate in the **Emerald Fed Com #505H** well.  
\_\_\_\_\_ I/We hereby elect **NOT** to participate in the **Emerald Fed Com #505H** well.

**Emerald Fed Com #506H:**

\_\_\_\_\_ I/We hereby elect to participate in the **Emerald Fed Com #506H** well.  
\_\_\_\_\_ I/We hereby elect **NOT** to participate in the **Emerald Fed Com #506H** well.

**Emerald Fed Com #601H:**

\_\_\_\_\_ I/We hereby elect to participate in the **Emerald Fed Com #601H** well.  
\_\_\_\_\_ I/We hereby elect **NOT** to participate in the **Emerald Fed Com #601H** well.

**Emerald Fed Com #602H:**

\_\_\_\_\_ I/We hereby elect to participate in the **Emerald Fed Com #602H** well.  
\_\_\_\_\_ I/We hereby elect **NOT** to participate in the **Emerald Fed Com #602H** well.

**Emerald Fed Com #603H:**

\_\_\_\_\_ I/We hereby elect to participate in the **Emerald Fed Com #603H** well.  
\_\_\_\_\_ I/We hereby elect **NOT** to participate in the **Emerald Fed Com #603H** well.

**Emerald Fed Com #604H:**

\_\_\_\_\_ I/We hereby elect to participate in the **Emerald Fed Com #604H** well.  
\_\_\_\_\_ I/We hereby elect **NOT** to participate in the **Emerald Fed Com #604H** well.

**Emerald Fed Com #605H:**

\_\_\_\_\_ I/We hereby elect to participate in the **Emerald Fed Com #605H** well.  
\_\_\_\_\_ I/We hereby elect **NOT** to participate in the **Emerald Fed Com #605H** well.

**Emerald Fed Com #606H:**

\_\_\_\_\_ I/We hereby elect to participate in the **Emerald Fed Com #606H** well.  
\_\_\_\_\_ I/We hereby elect **NOT** to participate in the **Emerald Fed Com #606H** well.

**Cibolo Oil & Gas**

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

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

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

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**AUTHORIZATION FOR EXPENDITURE**

**AFE: NM0600**

Date: January 22, 2024

Well Name: Emerald Federal Com #301H

Projected MD/TVD: 19073/8800

Target: 1BS

Spud to TD: 16.8

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100'FNL, 330'FWL

Total Fluid (gal/ft): 3000

**PROJECT DESCRIPTION:**

The proposed AFE is for the Emerald Federal Com #301H, a 2 section Bone Springs horizontal well to be drilled in Lea County, NM. The well is a 3 string casing design consisting of the following: 17.5" surface hole drilled on Fresh to 1250' and 13.375" 54.5# J-55 BTC casing will be set and cemented in place; 12.25" hole will then be drilled on Brine to 3500' and a string of 9.625" 40# J-55 BTC casing will be set and cemented in place; 8.75" production hole will then be drilled on OBM to 19073' and a string of 5.5" 20# P-110 HC GBCD casing will be set and cemented in place. There will be 10000' of treatable lateral and the completions design will consist of +/-64 stages at 2500 lbs/ft & 3000 gals/ft. AFE includes associated costs for initial gas lift installation.

	<u>TOTAL</u>
<b>DRILLING:</b>	<b>\$3,831,757.11</b>
<b>COMPLETIONS:</b>	<b>\$6,656,201.06</b>
<b>FACILITIES:</b>	<b>\$1,580,000.00</b>
<b>COMPLETED WELL COST:</b>	<b>\$12,067,958.17</b>

**OPERATOR APPROVAL:**



**AUTHORIZATION FOR EXPENDITURE**

AFE: NM0600

Date: January 22, 2024

Well Name: Emerald Federal Com #301H

Projected MD/TVD: 19073/8800

Target: 1BS

Spud to TD: 16.8

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100'FNL, 330'FWL

Total Fluid (gal/ft): 3000

TANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Tangible Drilling</b>			\$ 763,754	\$ -	\$ -	\$ 763,754
8400.303	Production Casing	\$ 515,654	\$ -	\$ -	\$ 515,654	
8400.340	Wellhead	\$ 56,835	\$ -	\$ -	\$ 56,835	
8400.302	Intrm 1&2 Casing	\$ 126,471	\$ -	\$ -	\$ 126,471	
8400.301	Surface Casing	\$ 64,795	\$ -	\$ -	\$ 64,795	
<b>Tangible Completion</b>			\$ -	\$ 602,713	\$ -	\$ 602,713
8400.352	Wellhead & Equipment	\$ -	\$ 44,205	\$ -	\$ 44,205	
8325.711	Wellhead Equipment	\$ -	\$ 63,508	\$ -	\$ 63,508	
8325.702	Tubing	\$ -	\$ 90,000	\$ -	\$ 90,000	
8325.705	ESP Equipment/Install	\$ -	\$ 40,000	\$ -	\$ 40,000	
8325.719	Contract Labor Install	\$ -	\$ 15,000	\$ -	\$ 15,000	
8325.704	Downhole Artificial Lift Eqpt	\$ -	\$ 350,000	\$ -	\$ 350,000	
<b>Tangible Facility</b>			\$ -	\$ -	\$ 915,100	\$ 915,100
8355.555	Pump / Supplies	\$ -	\$ -	\$ 87,200	\$ 87,200	
8355.500	Vessels	\$ -	\$ -	\$ 253,200	\$ 253,200	
8355.515	Flare	\$ -	\$ -	\$ 32,000	\$ 32,000	
8355.550	Overhead Power Material	\$ -	\$ -	\$ 53,100	\$ 53,100	
8355.540	Electrical Supplies	\$ -	\$ -	\$ 68,800	\$ 68,800	
8355.530	Compressors	\$ -	\$ -	\$ 11,100	\$ 11,100	
8355.510	Tanks	\$ -	\$ -	\$ 128,400	\$ 128,400	
8355.565	Flowline	\$ -	\$ -	\$ 49,100	\$ 49,100	
8355.535	Instrumentation / Meters	\$ -	\$ -	\$ 60,500	\$ 60,500	
8355.525	Containment	\$ -	\$ -	\$ 25,700	\$ 25,700	
8355.520	PVF	\$ -	\$ -	\$ 146,000	\$ 146,000	
<b>TOTAL TANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 763,754	\$ 602,713	\$ 915,100	\$ 2,281,567

INTANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Intangible Drilling</b>			\$ 3,068,003	\$ -	\$ -	\$ 3,068,003
8200.125	Inspection	\$ 45,258	\$ -	\$ -	\$ 45,258	
8200.103	Drilling - Rig Move	\$ 93,673	\$ -	\$ -	\$ 93,673	
8200.169	Mud-Brine	\$ 25,837	\$ -	\$ -	\$ 25,837	
8200.162	Mancamp	\$ 45,636	\$ -	\$ -	\$ 45,636	
8200.170	Mud-Diesel	\$ 110,882	\$ -	\$ -	\$ 110,882	
8200.168	Roustabout Services	\$ 2,196	\$ -	\$ -	\$ 2,196	
8200.104	Fuel - Rig	\$ 187,966	\$ -	\$ -	\$ 187,966	
8200.137	Casing Services	\$ 71,978	\$ -	\$ -	\$ 71,978	
8200.106	Transportation	\$ 92,233	\$ -	\$ -	\$ 92,233	
8200.124	Equipment Rental	\$ 113,168	\$ -	\$ -	\$ 113,168	
8200.165	Safety/Environmental	\$ 2,513	\$ -	\$ -	\$ 2,513	
8200.143	Geological Services	\$ 10,112	\$ -	\$ -	\$ 10,112	
8200.113	Damages/Row	\$ 7,894	\$ -	\$ -	\$ 7,894	
8200.149	Legal, Title, Etc	\$ 10,525	\$ -	\$ -	\$ 10,525	
8200.114	Disposal	\$ 191,556	\$ -	\$ -	\$ 191,556	
8200.167	Consulting Services	\$ 242,291	\$ -	\$ -	\$ 242,291	
8200.115	Mud-Drill Water	\$ 5,671	\$ -	\$ -	\$ 5,671	
8200.102	Drilling - Daywork	\$ 806,307	\$ -	\$ -	\$ 806,307	
8200.138	Cementing Services	\$ 199,975	\$ -	\$ -	\$ 199,975	
8200.112	Location & Roads, Conductor	\$ 124,415	\$ -	\$ -	\$ 124,415	
8200.119	Mud-Auxiliary	\$ 31,076	\$ -	\$ -	\$ 31,076	
8200.147	Drilling Overhead	\$ 5,194	\$ -	\$ -	\$ 5,194	
8200.116	Drill Bits & BHA	\$ 68,512	\$ -	\$ -	\$ 68,512	
8200.152	Well Control Ins.	\$ 7,894	\$ -	\$ -	\$ 7,894	
8200.111	Survey, Stake/Permit	\$ 5,263	\$ -	\$ -	\$ 5,263	



**AUTHORIZATION FOR EXPENDITURE**

	8200.117	Mud & Chemicals	\$ 175,212	\$ -	\$ -	\$ 175,212
	8200.144	Company Supervision	\$ 2,400	\$ -	\$ -	\$ 2,400
	8200.128	Drilling - Directional	\$ 243,572	\$ -	\$ -	\$ 243,572
	8200.127	Contract Labor	\$ 27,255	\$ -	\$ -	\$ 27,255
	8200.164	Solids Control & Closed Loop	\$ 111,542	\$ -	\$ -	\$ 111,542
<b>Intangible Completion</b>			\$ -	\$ 6,053,488	\$ -	\$ 6,053,488
	8300.273	Flowback	\$ -	\$ 5,616,994	\$ -	\$ 7,821
	8300.203	Fuel	\$ -	\$ 5,616,994	\$ -	\$ 683,704
	8300.214	Perforating & Plugs	\$ -	\$ 5,616,994	\$ -	\$ 390,293
	8300.248	Mancamp	\$ -	\$ 5,616,994	\$ -	\$ 21,324
	8300.205	Location & Roads	\$ -	\$ 5,616,994	\$ -	\$ 5,288
	8300.240	Pump Down Services	\$ -	\$ 5,616,994	\$ -	\$ 101,040
	8300.220	Engineering & Supervision	\$ -	\$ 5,616,994	\$ -	\$ 15,156
	8300.210	Surface Rental Equip	\$ -	\$ 5,616,994	\$ -	\$ 305,001
	8300.229	Transportation	\$ -	\$ 5,616,994	\$ -	\$ 5,263
	8300.276	Safety & Environmental	\$ -	\$ 5,616,994	\$ -	\$ 3,473
	8300.271	Coil Tubing	\$ -	\$ 5,616,994	\$ -	\$ 113,093
	8300.243	Analysis	\$ -	\$ 5,616,994	\$ -	\$ 9,473
	8300.207	Fresh Water	\$ -	\$ 5,616,994	\$ -	\$ 537,798
	8300.278	Roustabouts	\$ -	\$ 5,616,994	\$ -	\$ 1,579
	8300.274	Water Transfer	\$ -	\$ 5,616,994	\$ -	\$ 99,015
	8300.232	Disposal	\$ -	\$ 5,616,994	\$ -	\$ 19,004
	8300.270	Frac - Equipment	\$ -	\$ 5,616,994	\$ -	\$ 1,692,841
	8300.250	Downhole Rental Equip	\$ -	\$ 5,616,994	\$ -	\$ 43,391
	8300.277	Consulting Services	\$ -	\$ 5,616,994	\$ -	\$ 116,828
	8300.275	Frac - Sand	\$ -	\$ 5,616,994	\$ -	\$ 1,015,231
	8300.212	Contract Labor	\$ -	\$ 5,616,994	\$ -	\$ 10,678
	8300.209	Chemicals	\$ -	\$ 5,616,994	\$ -	\$ 419,703
	8360.850	Safety / Environmental	\$ -	\$ 341,344	\$ -	\$ 4,400
	8360.825	Rental Equipment	\$ -	\$ 341,344	\$ -	\$ 190,000
	8360.805	Trucked Water Disposal	\$ -	\$ 341,344	\$ -	\$ 21,464
	8360.820	Well Testing / Flowback	\$ -	\$ 341,344	\$ -	\$ 60,746
	8360.815	Trucking/Vacuum/Transp	\$ -	\$ 341,344	\$ -	\$ 14,334
	8360.845	Wellsite Supervision	\$ -	\$ 341,344	\$ -	\$ 50,400
	8320.611	Trucking/Vacuum/Transportation	\$ -	\$ 95,150	\$ -	\$ 10,000
	8320.612	Kill Truck	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.610	Inspection & Testing	\$ -	\$ 95,150	\$ -	\$ 4,000
	8320.621	Rental Equipment	\$ -	\$ 95,150	\$ -	\$ 15,000
	8320.617	Contract Labor/Roustabout	\$ -	\$ 95,150	\$ -	\$ 15,887
	8320.602	Workover Rig	\$ -	\$ 95,150	\$ -	\$ 30,000
	8320.628	Chemicals	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.625	Wellsite Supervision	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.605	Fuel / Power	\$ -	\$ 95,150	\$ -	\$ 5,263
<b>Intangible Facility</b>			\$ -	\$ -	\$ 664,900	\$ 664,900
	8350.404	Equipment Rental	\$ -	\$ -	\$ 31,000	\$ 31,000
	8350.421	Commissioning	\$ -	\$ -	\$ 3,500	\$ 3,500
	8350.416	Supervision	\$ -	\$ -	\$ 29,600	\$ 29,600
	8350.411	Safety & Environmental	\$ -	\$ -	\$ 11,700	\$ 11,700
	8350.410	Transportation/Trucking	\$ -	\$ -	\$ 24,500	\$ 24,500
	8350.418	Mechanical Labor	\$ -	\$ -	\$ 222,500	\$ 222,500
	8350.417	Overhead Power Labor	\$ -	\$ -	\$ 24,600	\$ 24,600
	8350.413	Contingency	\$ -	\$ -	\$ 75,200	\$ 75,200
	8350.420	Electrical Labor	\$ -	\$ -	\$ 61,900	\$ 61,900
	8350.419	Automation Labor	\$ -	\$ -	\$ 21,500	\$ 21,500
	8350.403	Roads/Location	\$ -	\$ -	\$ 85,100	\$ 85,100
	8350.415	Engineering / Technical	\$ -	\$ -	\$ 38,700	\$ 38,700
	8350.422	Flowline Labor	\$ -	\$ -	\$ 35,100	\$ 35,100
<b>TOTAL INTANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 3,068,003	\$ 6,053,488	\$ 664,900	\$ 9,786,391
<b>TOTAL PROJECT COSTS &gt;&gt;&gt;</b>			\$ 3,831,757	\$ 6,656,201	\$ 1,580,000	\$ 12,067,958
			<b>Drilling</b>	<b>Completion</b>	<b>Facility</b>	<b>Total</b>

This Authority for Expenditure is based on cost estimates. Billing will reflect your proportionate share of the actual invoice costs.



**AUTHORIZATION FOR EXPENDITURE**

**JOINT INTEREST APPROVAL:**

Company: \_\_\_\_\_

Working Interest: \_\_\_\_\_

Signature: \_\_\_\_\_

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

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



**AUTHORIZATION FOR EXPENDITURE**

**AFE: NM0601**

Date: January 22, 2024

Well Name: Emerald Federal Com #302H

Projected MD/TVD: 19073/8800

Target: 1BS

Spud to TD: 16.8

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100'FNL, 1320'FWL

Total Fluid (gal/ft): 3000

**PROJECT DESCRIPTION:**

The proposed AFE is for the Emerald Federal Com #302H, a 2 section Bone Springs horizontal well to be drilled in Lea County, NM. The well is a 3 string casing design consisting of the following: 17.5" surface hole drilled on Fresh to 1250' and 13.375" 54.5# J-55 BTC casing will be set and cemented in place; 12.25" hole will then be drilled on Brine to 3500' and a string of 9.625" 40# J-55 BTC casing will be set and cemented in place; 8.75" production hole will then be drilled on OBM to 19073' and a string of 5.5" 20# P-110 HC GBCD casing will be set and cemented in place. There will be 10000' of treatable lateral and the completions design will consist of +/-64 stages at 2500 lbs/ft & 3000 gals/ft. AFE includes associated costs for initial gas lift installation.

	<u>TOTAL</u>
<b>DRILLING:</b>	<b>\$3,831,757.11</b>
<b>COMPLETIONS:</b>	<b>\$6,656,201.06</b>
<b>FACILITIES:</b>	<b>\$1,580,000.00</b>
<b>COMPLETED WELL COST:</b>	<b>\$12,067,958.17</b>

**OPERATOR APPROVAL:**



**AUTHORIZATION FOR EXPENDITURE**

AFE: NM0601

Date: January 22, 2024

Well Name: Emerald Federal Com #302H

Projected MD/TVD: 19073/8800

Target: 1BS

Spud to TD: 16.8

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100'FNL, 1320'FWL

Total Fluid (gal/ft): 3000

TANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Tangible Drilling</b>			\$ 763,754	\$ -	\$ -	\$ 763,754
8400.303	Production Casing	\$ 515,654	\$ -	\$ -	\$ 515,654	
8400.340	Wellhead	\$ 56,835	\$ -	\$ -	\$ 56,835	
8400.302	Intrm 1&2 Casing	\$ 126,471	\$ -	\$ -	\$ 126,471	
8400.301	Surface Casing	\$ 64,795	\$ -	\$ -	\$ 64,795	
<b>Tangible Completion</b>			\$ -	\$ 602,713	\$ -	\$ 602,713
8400.352	Wellhead & Equipment	\$ -	\$ 44,205	\$ -	\$ 44,205	
8325.711	Wellhead Equipment	\$ -	\$ 63,508	\$ -	\$ 63,508	
8325.702	Tubing	\$ -	\$ 90,000	\$ -	\$ 90,000	
8325.705	ESP Equipment/Install	\$ -	\$ 40,000	\$ -	\$ 40,000	
8325.719	Contract Labor Install	\$ -	\$ 15,000	\$ -	\$ 15,000	
8325.704	Downhole Artificial Lift Eqpt	\$ -	\$ 350,000	\$ -	\$ 350,000	
<b>Tangible Facility</b>			\$ -	\$ -	\$ 915,100	\$ 915,100
8355.555	Pump / Supplies	\$ -	\$ -	\$ 87,200	\$ 87,200	
8355.500	Vessels	\$ -	\$ -	\$ 253,200	\$ 253,200	
8355.515	Flare	\$ -	\$ -	\$ 32,000	\$ 32,000	
8355.550	Overhead Power Material	\$ -	\$ -	\$ 53,100	\$ 53,100	
8355.540	Electrical Supplies	\$ -	\$ -	\$ 68,800	\$ 68,800	
8355.530	Compressors	\$ -	\$ -	\$ 11,100	\$ 11,100	
8355.510	Tanks	\$ -	\$ -	\$ 128,400	\$ 128,400	
8355.565	Flowline	\$ -	\$ -	\$ 49,100	\$ 49,100	
8355.535	Instrumentation / Meters	\$ -	\$ -	\$ 60,500	\$ 60,500	
8355.525	Containment	\$ -	\$ -	\$ 25,700	\$ 25,700	
8355.520	PVF	\$ -	\$ -	\$ 146,000	\$ 146,000	
<b>TOTAL TANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 763,754	\$ 602,713	\$ 915,100	\$ 2,281,567

INTANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Intangible Drilling</b>			\$ 3,068,003	\$ -	\$ -	\$ 3,068,003
8200.125	Inspection	\$ 45,258	\$ -	\$ -	\$ 45,258	
8200.103	Drilling - Rig Move	\$ 93,673	\$ -	\$ -	\$ 93,673	
8200.169	Mud-Brine	\$ 25,837	\$ -	\$ -	\$ 25,837	
8200.162	Mancamp	\$ 45,636	\$ -	\$ -	\$ 45,636	
8200.170	Mud-Diesel	\$ 110,882	\$ -	\$ -	\$ 110,882	
8200.168	Roustabout Services	\$ 2,196	\$ -	\$ -	\$ 2,196	
8200.104	Fuel - Rig	\$ 187,966	\$ -	\$ -	\$ 187,966	
8200.137	Casing Services	\$ 71,978	\$ -	\$ -	\$ 71,978	
8200.106	Transportation	\$ 92,233	\$ -	\$ -	\$ 92,233	
8200.124	Equipment Rental	\$ 113,168	\$ -	\$ -	\$ 113,168	
8200.165	Safety/Environmental	\$ 2,513	\$ -	\$ -	\$ 2,513	
8200.143	Geological Services	\$ 10,112	\$ -	\$ -	\$ 10,112	
8200.113	Damages/Row	\$ 7,894	\$ -	\$ -	\$ 7,894	
8200.149	Legal, Title, Etc	\$ 10,525	\$ -	\$ -	\$ 10,525	
8200.114	Disposal	\$ 191,556	\$ -	\$ -	\$ 191,556	
8200.167	Consulting Services	\$ 242,291	\$ -	\$ -	\$ 242,291	
8200.115	Mud-Drill Water	\$ 5,671	\$ -	\$ -	\$ 5,671	
8200.102	Drilling - Daywork	\$ 806,307	\$ -	\$ -	\$ 806,307	
8200.138	Cementing Services	\$ 199,975	\$ -	\$ -	\$ 199,975	
8200.112	Location & Roads, Conductor	\$ 124,415	\$ -	\$ -	\$ 124,415	
8200.119	Mud-Auxiliary	\$ 31,076	\$ -	\$ -	\$ 31,076	
8200.147	Drilling Overhead	\$ 5,194	\$ -	\$ -	\$ 5,194	
8200.116	Drill Bits & BHA	\$ 68,512	\$ -	\$ -	\$ 68,512	
8200.152	Well Control Ins.	\$ 7,894	\$ -	\$ -	\$ 7,894	
8200.111	Survey, Stake/Permit	\$ 5,263	\$ -	\$ -	\$ 5,263	



**AUTHORIZATION FOR EXPENDITURE**

	8200.117	Mud & Chemicals	\$ 175,212	\$ -	\$ -	\$ 175,212
	8200.144	Company Supervision	\$ 2,400	\$ -	\$ -	\$ 2,400
	8200.128	Drilling - Directional	\$ 243,572	\$ -	\$ -	\$ 243,572
	8200.127	Contract Labor	\$ 27,255	\$ -	\$ -	\$ 27,255
	8200.164	Solids Control & Closed Loop	\$ 111,542	\$ -	\$ -	\$ 111,542
<b>Intangible Completion</b>			\$ -	\$ 6,053,488	\$ -	\$ 6,053,488
	8300.273	Flowback	\$ -	\$ 5,616,994	\$ -	\$ 7,821
	8300.203	Fuel	\$ -	\$ 5,616,994	\$ -	\$ 683,704
	8300.214	Perforating & Plugs	\$ -	\$ 5,616,994	\$ -	\$ 390,293
	8300.248	Mancamp	\$ -	\$ 5,616,994	\$ -	\$ 21,324
	8300.205	Location & Roads	\$ -	\$ 5,616,994	\$ -	\$ 5,288
	8300.240	Pump Down Services	\$ -	\$ 5,616,994	\$ -	\$ 101,040
	8300.220	Engineering & Supervision	\$ -	\$ 5,616,994	\$ -	\$ 15,156
	8300.210	Surface Rental Equip	\$ -	\$ 5,616,994	\$ -	\$ 305,001
	8300.229	Transportation	\$ -	\$ 5,616,994	\$ -	\$ 5,263
	8300.276	Safety & Environmental	\$ -	\$ 5,616,994	\$ -	\$ 3,473
	8300.271	Coil Tubing	\$ -	\$ 5,616,994	\$ -	\$ 113,093
	8300.243	Analysis	\$ -	\$ 5,616,994	\$ -	\$ 9,473
	8300.207	Fresh Water	\$ -	\$ 5,616,994	\$ -	\$ 537,798
	8300.278	Roustabouts	\$ -	\$ 5,616,994	\$ -	\$ 1,579
	8300.274	Water Transfer	\$ -	\$ 5,616,994	\$ -	\$ 99,015
	8300.232	Disposal	\$ -	\$ 5,616,994	\$ -	\$ 19,004
	8300.270	Frac - Equipment	\$ -	\$ 5,616,994	\$ -	\$ 1,692,841
	8300.250	Downhole Rental Equip	\$ -	\$ 5,616,994	\$ -	\$ 43,391
	8300.277	Consulting Services	\$ -	\$ 5,616,994	\$ -	\$ 116,828
	8300.275	Frac - Sand	\$ -	\$ 5,616,994	\$ -	\$ 1,015,231
	8300.212	Contract Labor	\$ -	\$ 5,616,994	\$ -	\$ 10,678
	8300.209	Chemicals	\$ -	\$ 5,616,994	\$ -	\$ 419,703
	8360.850	Safety / Environmental	\$ -	\$ 341,344	\$ -	\$ 4,400
	8360.825	Rental Equipment	\$ -	\$ 341,344	\$ -	\$ 190,000
	8360.805	Trucked Water Disposal	\$ -	\$ 341,344	\$ -	\$ 21,464
	8360.820	Well Testing / Flowback	\$ -	\$ 341,344	\$ -	\$ 60,746
	8360.815	Trucking/Vacuum/Transp	\$ -	\$ 341,344	\$ -	\$ 14,334
	8360.845	Wellsite Supervision	\$ -	\$ 341,344	\$ -	\$ 50,400
	8320.611	Trucking/Vacuum/Transportation	\$ -	\$ 95,150	\$ -	\$ 10,000
	8320.612	Kill Truck	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.610	Inspection & Testing	\$ -	\$ 95,150	\$ -	\$ 4,000
	8320.621	Rental Equipment	\$ -	\$ 95,150	\$ -	\$ 15,000
	8320.617	Contract Labor/Roustabout	\$ -	\$ 95,150	\$ -	\$ 15,887
	8320.602	Workover Rig	\$ -	\$ 95,150	\$ -	\$ 30,000
	8320.628	Chemicals	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.625	Wellsite Supervision	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.605	Fuel / Power	\$ -	\$ 95,150	\$ -	\$ 5,263
<b>Intangible Facility</b>			\$ -	\$ -	\$ 664,900	\$ 664,900
	8350.404	Equipment Rental	\$ -	\$ -	\$ 31,000	\$ 31,000
	8350.421	Commissioning	\$ -	\$ -	\$ 3,500	\$ 3,500
	8350.416	Supervision	\$ -	\$ -	\$ 29,600	\$ 29,600
	8350.411	Safety & Environmental	\$ -	\$ -	\$ 11,700	\$ 11,700
	8350.410	Transportation/Trucking	\$ -	\$ -	\$ 24,500	\$ 24,500
	8350.418	Mechanical Labor	\$ -	\$ -	\$ 222,500	\$ 222,500
	8350.417	Overhead Power Labor	\$ -	\$ -	\$ 24,600	\$ 24,600
	8350.413	Contingency	\$ -	\$ -	\$ 75,200	\$ 75,200
	8350.420	Electrical Labor	\$ -	\$ -	\$ 61,900	\$ 61,900
	8350.419	Automation Labor	\$ -	\$ -	\$ 21,500	\$ 21,500
	8350.403	Roads/Location	\$ -	\$ -	\$ 85,100	\$ 85,100
	8350.415	Engineering / Technical	\$ -	\$ -	\$ 38,700	\$ 38,700
	8350.422	Flowline Labor	\$ -	\$ -	\$ 35,100	\$ 35,100
<b>TOTAL INTANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 3,068,003	\$ 6,053,488	\$ 664,900	\$ 9,786,391
<b>TOTAL PROJECT COSTS &gt;&gt;&gt;</b>			\$ 3,831,757	\$ 6,656,201	\$ 1,580,000	\$ 12,067,958
			<b>Drilling</b>	<b>Completion</b>	<b>Facility</b>	<b>Total</b>

This Authority for Expenditure is based on cost estimates. Billing will reflect your proportionate share of the actual invoice costs.



**AUTHORIZATION FOR EXPENDITURE**

**JOINT INTEREST APPROVAL:**

Company: \_\_\_\_\_

Working Interest: \_\_\_\_\_

Signature: \_\_\_\_\_

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

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



**AUTHORIZATION FOR EXPENDITURE**

**AFE: NM0602**

Date: January 22, 2024

Well Name: Emerald Federal Com #303H

Projected MD/TVD: 19073/8800

Target: 1BS

Spud to TD: 16.8

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100'FNL, 2178'FWL

Total Fluid (gal/ft): 3000

**PROJECT DESCRIPTION:**

The proposed AFE is for the Emerald Federal Com #303H, a 2 section Bone Springs horizontal well to be drilled in Lea County, NM. The well is a 3 string casing design consisting of the following: 17.5" surface hole drilled on Fresh to 1250' and 13.375" 54.5# J-55 BTC casing will be set and cemented in place; 12.25" hole will then be drilled on Brine to 3500' and a string of 9.625" 40# J-55 BTC casing will be set and cemented in place; 8.75" production hole will then be drilled on OBM to 19073' and a string of 5.5" 20# P-110 HC GBCD casing will be set and cemented in place. There will be 10000' of treatable lateral and the completions design will consist of +/-64 stages at 2500 lbs/ft & 3000 gals/ft. AFE includes associated costs for initial gas lift installation.

	<u>TOTAL</u>
<b>DRILLING:</b>	<b>\$3,831,757.11</b>
<b>COMPLETIONS:</b>	<b>\$6,656,201.06</b>
<b>FACILITIES:</b>	<b>\$1,580,000.00</b>
<b>COMPLETED WELL COST:</b>	<b>\$12,067,958.17</b>

**OPERATOR APPROVAL:**



**AUTHORIZATION FOR EXPENDITURE**

AFE: NM0602

Date: January 22, 2024

Well Name: Emerald Federal Com #303H

Projected MD/TVD: 19073/8800

Target: 1BS

Spud to TD: 16.8

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100'FNL, 2178'FWL

Total Fluid (gal/ft): 3000

TANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Tangible Drilling</b>			\$ 763,754	\$ -	\$ -	\$ 763,754
8400.303	Production Casing		\$ 515,654	\$ -	\$ -	\$ 515,654
8400.340	Wellhead		\$ 56,835	\$ -	\$ -	\$ 56,835
8400.302	Intrm 1&2 Casing		\$ 126,471	\$ -	\$ -	\$ 126,471
8400.301	Surface Casing		\$ 64,795	\$ -	\$ -	\$ 64,795
<b>Tangible Completion</b>			\$ -	\$ 602,713	\$ -	\$ 602,713
8400.352	Wellhead & Equipment		\$ -	\$ 44,205	\$ -	\$ 44,205
8325.711	Wellhead Equipment		\$ -	\$ 63,508	\$ -	\$ 63,508
8325.702	Tubing		\$ -	\$ 90,000	\$ -	\$ 90,000
8325.705	ESP Equipment/Install		\$ -	\$ 40,000	\$ -	\$ 40,000
8325.719	Contract Labor Install		\$ -	\$ 15,000	\$ -	\$ 15,000
8325.704	Downhole Artificial Lift Eqpt		\$ -	\$ 350,000	\$ -	\$ 350,000
<b>Tangible Facility</b>			\$ -	\$ -	\$ 915,100	\$ 915,100
8355.555	Pump / Supplies		\$ -	\$ -	\$ 87,200	\$ 87,200
8355.500	Vessels		\$ -	\$ -	\$ 253,200	\$ 253,200
8355.515	Flare		\$ -	\$ -	\$ 32,000	\$ 32,000
8355.550	Overhead Power Material		\$ -	\$ -	\$ 53,100	\$ 53,100
8355.540	Electrical Supplies		\$ -	\$ -	\$ 68,800	\$ 68,800
8355.530	Compressors		\$ -	\$ -	\$ 11,100	\$ 11,100
8355.510	Tanks		\$ -	\$ -	\$ 128,400	\$ 128,400
8355.565	Flowline		\$ -	\$ -	\$ 49,100	\$ 49,100
8355.535	Instrumentation / Meters		\$ -	\$ -	\$ 60,500	\$ 60,500
8355.525	Containment		\$ -	\$ -	\$ 25,700	\$ 25,700
8355.520	PVF		\$ -	\$ -	\$ 146,000	\$ 146,000
<b>TOTAL TANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 763,754	\$ 602,713	\$ 915,100	\$ 2,281,567

INTANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Intangible Drilling</b>			\$ 3,068,003	\$ -	\$ -	\$ 3,068,003
8200.125	Inspection		\$ 45,258	\$ -	\$ -	\$ 45,258
8200.103	Drilling - Rig Move		\$ 93,673	\$ -	\$ -	\$ 93,673
8200.169	Mud-Brine		\$ 25,837	\$ -	\$ -	\$ 25,837
8200.162	Mancamp		\$ 45,636	\$ -	\$ -	\$ 45,636
8200.170	Mud-Diesel		\$ 110,882	\$ -	\$ -	\$ 110,882
8200.168	Roustabout Services		\$ 2,196	\$ -	\$ -	\$ 2,196
8200.104	Fuel - Rig		\$ 187,966	\$ -	\$ -	\$ 187,966
8200.137	Casing Services		\$ 71,978	\$ -	\$ -	\$ 71,978
8200.106	Transportation		\$ 92,233	\$ -	\$ -	\$ 92,233
8200.124	Equipment Rental		\$ 113,168	\$ -	\$ -	\$ 113,168
8200.165	Safety/Environmental		\$ 2,513	\$ -	\$ -	\$ 2,513
8200.143	Geological Services		\$ 10,112	\$ -	\$ -	\$ 10,112
8200.113	Damages/Row		\$ 7,894	\$ -	\$ -	\$ 7,894
8200.149	Legal, Title, Etc		\$ 10,525	\$ -	\$ -	\$ 10,525
8200.114	Disposal		\$ 191,556	\$ -	\$ -	\$ 191,556
8200.167	Consulting Services		\$ 242,291	\$ -	\$ -	\$ 242,291
8200.115	Mud-Drill Water		\$ 5,671	\$ -	\$ -	\$ 5,671
8200.102	Drilling - Daywork		\$ 806,307	\$ -	\$ -	\$ 806,307
8200.138	Cementing Services		\$ 199,975	\$ -	\$ -	\$ 199,975
8200.112	Location & Roads, Conductor		\$ 124,415	\$ -	\$ -	\$ 124,415
8200.119	Mud-Auxiliary		\$ 31,076	\$ -	\$ -	\$ 31,076
8200.147	Drilling Overhead		\$ 5,194	\$ -	\$ -	\$ 5,194
8200.116	Drill Bits & BHA		\$ 68,512	\$ -	\$ -	\$ 68,512
8200.152	Well Control Ins.		\$ 7,894	\$ -	\$ -	\$ 7,894
8200.111	Survey, Stake/Permit		\$ 5,263	\$ -	\$ -	\$ 5,263



**AUTHORIZATION FOR EXPENDITURE**

	8200.117	Mud & Chemicals	\$ 175,212	\$ -	\$ -	\$ 175,212
	8200.144	Company Supervision	\$ 2,400	\$ -	\$ -	\$ 2,400
	8200.128	Drilling - Directional	\$ 243,572	\$ -	\$ -	\$ 243,572
	8200.127	Contract Labor	\$ 27,255	\$ -	\$ -	\$ 27,255
	8200.164	Solids Control & Closed Loop	\$ 111,542	\$ -	\$ -	\$ 111,542
<b>Intangible Completion</b>			\$ -	\$ 6,053,488	\$ -	\$ 6,053,488
	8300.273	Flowback	\$ -	\$ 5,616,994	\$ -	\$ 7,821
	8300.203	Fuel	\$ -	\$ 5,616,994	\$ -	\$ 683,704
	8300.214	Perforating & Plugs	\$ -	\$ 5,616,994	\$ -	\$ 390,293
	8300.248	Mancamp	\$ -	\$ 5,616,994	\$ -	\$ 21,324
	8300.205	Location & Roads	\$ -	\$ 5,616,994	\$ -	\$ 5,288
	8300.240	Pump Down Services	\$ -	\$ 5,616,994	\$ -	\$ 101,040
	8300.220	Engineering & Supervision	\$ -	\$ 5,616,994	\$ -	\$ 15,156
	8300.210	Surface Rental Equip	\$ -	\$ 5,616,994	\$ -	\$ 305,001
	8300.229	Transportation	\$ -	\$ 5,616,994	\$ -	\$ 5,263
	8300.276	Safety & Environmental	\$ -	\$ 5,616,994	\$ -	\$ 3,473
	8300.271	Coil Tubing	\$ -	\$ 5,616,994	\$ -	\$ 113,093
	8300.243	Analysis	\$ -	\$ 5,616,994	\$ -	\$ 9,473
	8300.207	Fresh Water	\$ -	\$ 5,616,994	\$ -	\$ 537,798
	8300.278	Roustabouts	\$ -	\$ 5,616,994	\$ -	\$ 1,579
	8300.274	Water Transfer	\$ -	\$ 5,616,994	\$ -	\$ 99,015
	8300.232	Disposal	\$ -	\$ 5,616,994	\$ -	\$ 19,004
	8300.270	Frac - Equipment	\$ -	\$ 5,616,994	\$ -	\$ 1,692,841
	8300.250	Downhole Rental Equip	\$ -	\$ 5,616,994	\$ -	\$ 43,391
	8300.277	Consulting Services	\$ -	\$ 5,616,994	\$ -	\$ 116,828
	8300.275	Frac - Sand	\$ -	\$ 5,616,994	\$ -	\$ 1,015,231
	8300.212	Contract Labor	\$ -	\$ 5,616,994	\$ -	\$ 10,678
	8300.209	Chemicals	\$ -	\$ 5,616,994	\$ -	\$ 419,703
	8360.850	Safety / Environmental	\$ -	\$ 341,344	\$ -	\$ 4,400
	8360.825	Rental Equipment	\$ -	\$ 341,344	\$ -	\$ 190,000
	8360.805	Trucked Water Disposal	\$ -	\$ 341,344	\$ -	\$ 21,464
	8360.820	Well Testing / Flowback	\$ -	\$ 341,344	\$ -	\$ 60,746
	8360.815	Trucking/Vacuum/Transp	\$ -	\$ 341,344	\$ -	\$ 14,334
	8360.845	Wellsite Supervision	\$ -	\$ 341,344	\$ -	\$ 50,400
	8320.611	Trucking/Vacuum/Transportation	\$ -	\$ 95,150	\$ -	\$ 10,000
	8320.612	Kill Truck	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.610	Inspection & Testing	\$ -	\$ 95,150	\$ -	\$ 4,000
	8320.621	Rental Equipment	\$ -	\$ 95,150	\$ -	\$ 15,000
	8320.617	Contract Labor/Roustabout	\$ -	\$ 95,150	\$ -	\$ 15,887
	8320.602	Workover Rig	\$ -	\$ 95,150	\$ -	\$ 30,000
	8320.628	Chemicals	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.625	Wellsite Supervision	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.605	Fuel / Power	\$ -	\$ 95,150	\$ -	\$ 5,263
<b>Intangible Facility</b>			\$ -	\$ -	\$ 664,900	\$ 664,900
	8350.404	Equipment Rental	\$ -	\$ -	\$ 31,000	\$ 31,000
	8350.421	Commissioning	\$ -	\$ -	\$ 3,500	\$ 3,500
	8350.416	Supervision	\$ -	\$ -	\$ 29,600	\$ 29,600
	8350.411	Safety & Environmental	\$ -	\$ -	\$ 11,700	\$ 11,700
	8350.410	Transportation/Trucking	\$ -	\$ -	\$ 24,500	\$ 24,500
	8350.418	Mechanical Labor	\$ -	\$ -	\$ 222,500	\$ 222,500
	8350.417	Overhead Power Labor	\$ -	\$ -	\$ 24,600	\$ 24,600
	8350.413	Contingency	\$ -	\$ -	\$ 75,200	\$ 75,200
	8350.420	Electrical Labor	\$ -	\$ -	\$ 61,900	\$ 61,900
	8350.419	Automation Labor	\$ -	\$ -	\$ 21,500	\$ 21,500
	8350.403	Roads/Location	\$ -	\$ -	\$ 85,100	\$ 85,100
	8350.415	Engineering / Technical	\$ -	\$ -	\$ 38,700	\$ 38,700
	8350.422	Flowline Labor	\$ -	\$ -	\$ 35,100	\$ 35,100
<b>TOTAL INTANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 3,068,003	\$ 6,053,488	\$ 664,900	\$ 9,786,391
<b>TOTAL PROJECT COSTS &gt;&gt;&gt;</b>			\$ 3,831,757	\$ 6,656,201	\$ 1,580,000	\$ 12,067,958
			<b>Drilling</b>	<b>Completion</b>	<b>Facility</b>	<b>Total</b>

This Authority for Expenditure is based on cost estimates. Billing will reflect your proportionate share of the actual invoice costs.



**AUTHORIZATION FOR EXPENDITURE**

**JOINT INTEREST APPROVAL:**

Company: \_\_\_\_\_

Working Interest: \_\_\_\_\_

Signature: \_\_\_\_\_

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

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



**AUTHORIZATION FOR EXPENDITURE**

**AFE: NM0609**

Date: January 22, 2024

Well Name: Emerald Federal Com #304H

Projected MD/TVD: 19073/8800

Target: 1BS

Spud to TD: 16.8

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100'FNL, 2178'FEL

Total Fluid (gal/ft): 3000

**PROJECT DESCRIPTION:**

The proposed AFE is for the Emerald Federal Com #304H, a 2 section Bone Springs horizontal well to be drilled in Lea County, NM. The well is a 3 string casing design consisting of the following: 17.5" surface hole drilled on Fresh to 1250' and 13.375" 54.5# J-55 BTC casing will be set and cemented in place; 12.25" hole will then be drilled on Brine to 3500' and a string of 9.625" 40# J-55 BTC casing will be set and cemented in place; 8.75" production hole will then be drilled on OBM to 19073' and a string of 5.5" 20# P-110 HC GBCD casing will be set and cemented in place. There will be 10000' of treatable lateral and the completions design will consist of +/-64 stages at 2500 lbs/ft & 3000 gals/ft. AFE includes associated costs for initial gas lift installation.

	<u>TOTAL</u>
<b>DRILLING:</b>	<b>\$3,831,757.11</b>
<b>COMPLETIONS:</b>	<b>\$6,656,201.06</b>
<b>FACILITIES:</b>	<b>\$1,580,000.00</b>
<b>COMPLETED WELL COST:</b>	<b>\$12,067,958.17</b>

**OPERATOR APPROVAL:**



**AUTHORIZATION FOR EXPENDITURE**

AFE: NM0609

Date: January 22, 2024

Well Name: Emerald Federal Com #304H

Projected MD/TVD: 19073/8800

Target: 1BS

Spud to TD: 16.8

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100'FNL, 2178'FEL

Total Fluid (gal/ft): 3000

TANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Tangible Drilling</b>			\$ 763,754	\$ -	\$ -	\$ 763,754
8400.303	Production Casing		\$ 515,654	\$ -	\$ -	\$ 515,654
8400.340	Wellhead		\$ 56,835	\$ -	\$ -	\$ 56,835
8400.302	Intrm 1&2 Casing		\$ 126,471	\$ -	\$ -	\$ 126,471
8400.301	Surface Casing		\$ 64,795	\$ -	\$ -	\$ 64,795
<b>Tangible Completion</b>			\$ -	\$ 602,713	\$ -	\$ 602,713
8400.352	Wellhead & Equipment		\$ -	\$ 44,205	\$ -	\$ 44,205
8325.711	Wellhead Equipment		\$ -	\$ 63,508	\$ -	\$ 63,508
8325.702	Tubing		\$ -	\$ 90,000	\$ -	\$ 90,000
8325.705	ESP Equipment/Install		\$ -	\$ 40,000	\$ -	\$ 40,000
8325.719	Contract Labor Install		\$ -	\$ 15,000	\$ -	\$ 15,000
8325.704	Downhole Artificial Lift Eqpt		\$ -	\$ 350,000	\$ -	\$ 350,000
<b>Tangible Facility</b>			\$ -	\$ -	\$ 915,100	\$ 915,100
8355.555	Pump / Supplies		\$ -	\$ -	\$ 87,200	\$ 87,200
8355.500	Vessels		\$ -	\$ -	\$ 253,200	\$ 253,200
8355.515	Flare		\$ -	\$ -	\$ 32,000	\$ 32,000
8355.550	Overhead Power Material		\$ -	\$ -	\$ 53,100	\$ 53,100
8355.540	Electrical Supplies		\$ -	\$ -	\$ 68,800	\$ 68,800
8355.530	Compressors		\$ -	\$ -	\$ 11,100	\$ 11,100
8355.510	Tanks		\$ -	\$ -	\$ 128,400	\$ 128,400
8355.565	Flowline		\$ -	\$ -	\$ 49,100	\$ 49,100
8355.535	Instrumentation / Meters		\$ -	\$ -	\$ 60,500	\$ 60,500
8355.525	Containment		\$ -	\$ -	\$ 25,700	\$ 25,700
8355.520	PVF		\$ -	\$ -	\$ 146,000	\$ 146,000
<b>TOTAL TANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 763,754	\$ 602,713	\$ 915,100	\$ 2,281,567

INTANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Intangible Drilling</b>			\$ 3,068,003	\$ -	\$ -	\$ 3,068,003
8200.125	Inspection		\$ 45,258	\$ -	\$ -	\$ 45,258
8200.103	Drilling - Rig Move		\$ 93,673	\$ -	\$ -	\$ 93,673
8200.169	Mud-Brine		\$ 25,837	\$ -	\$ -	\$ 25,837
8200.162	Mancamp		\$ 45,636	\$ -	\$ -	\$ 45,636
8200.170	Mud-Diesel		\$ 110,882	\$ -	\$ -	\$ 110,882
8200.168	Roustabout Services		\$ 2,196	\$ -	\$ -	\$ 2,196
8200.104	Fuel - Rig		\$ 187,966	\$ -	\$ -	\$ 187,966
8200.137	Casing Services		\$ 71,978	\$ -	\$ -	\$ 71,978
8200.106	Transportation		\$ 92,233	\$ -	\$ -	\$ 92,233
8200.124	Equipment Rental		\$ 113,168	\$ -	\$ -	\$ 113,168
8200.165	Safety/Environmental		\$ 2,513	\$ -	\$ -	\$ 2,513
8200.143	Geological Services		\$ 10,112	\$ -	\$ -	\$ 10,112
8200.113	Damages/Row		\$ 7,894	\$ -	\$ -	\$ 7,894
8200.149	Legal, Title, Etc		\$ 10,525	\$ -	\$ -	\$ 10,525
8200.114	Disposal		\$ 191,556	\$ -	\$ -	\$ 191,556
8200.167	Consulting Services		\$ 242,291	\$ -	\$ -	\$ 242,291
8200.115	Mud-Drill Water		\$ 5,671	\$ -	\$ -	\$ 5,671
8200.102	Drilling - Daywork		\$ 806,307	\$ -	\$ -	\$ 806,307
8200.138	Cementing Services		\$ 199,975	\$ -	\$ -	\$ 199,975
8200.112	Location & Roads, Conductor		\$ 124,415	\$ -	\$ -	\$ 124,415
8200.119	Mud-Auxiliary		\$ 31,076	\$ -	\$ -	\$ 31,076
8200.147	Drilling Overhead		\$ 5,194	\$ -	\$ -	\$ 5,194
8200.116	Drill Bits & BHA		\$ 68,512	\$ -	\$ -	\$ 68,512
8200.152	Well Control Ins.		\$ 7,894	\$ -	\$ -	\$ 7,894
8200.111	Survey, Stake/Permit		\$ 5,263	\$ -	\$ -	\$ 5,263



**AUTHORIZATION FOR EXPENDITURE**

	8200.117	Mud & Chemicals	\$ 175,212	\$ -	\$ -	\$ 175,212
	8200.144	Company Supervision	\$ 2,400	\$ -	\$ -	\$ 2,400
	8200.128	Drilling - Directional	\$ 243,572	\$ -	\$ -	\$ 243,572
	8200.127	Contract Labor	\$ 27,255	\$ -	\$ -	\$ 27,255
	8200.164	Solids Control & Closed Loop	\$ 111,542	\$ -	\$ -	\$ 111,542
<b>Intangible Completion</b>			\$ -	\$ 6,053,488	\$ -	\$ 6,053,488
	8300.273	Flowback	\$ -	\$ 5,616,994	\$ -	\$ 7,821
	8300.203	Fuel	\$ -	\$ 5,616,994	\$ -	\$ 683,704
	8300.214	Perforating & Plugs	\$ -	\$ 5,616,994	\$ -	\$ 390,293
	8300.248	Mancamp	\$ -	\$ 5,616,994	\$ -	\$ 21,324
	8300.205	Location & Roads	\$ -	\$ 5,616,994	\$ -	\$ 5,288
	8300.240	Pump Down Services	\$ -	\$ 5,616,994	\$ -	\$ 101,040
	8300.220	Engineering & Supervision	\$ -	\$ 5,616,994	\$ -	\$ 15,156
	8300.210	Surface Rental Equip	\$ -	\$ 5,616,994	\$ -	\$ 305,001
	8300.229	Transportation	\$ -	\$ 5,616,994	\$ -	\$ 5,263
	8300.276	Safety & Environmental	\$ -	\$ 5,616,994	\$ -	\$ 3,473
	8300.271	Coil Tubing	\$ -	\$ 5,616,994	\$ -	\$ 113,093
	8300.243	Analysis	\$ -	\$ 5,616,994	\$ -	\$ 9,473
	8300.207	Fresh Water	\$ -	\$ 5,616,994	\$ -	\$ 537,798
	8300.278	Roustabouts	\$ -	\$ 5,616,994	\$ -	\$ 1,579
	8300.274	Water Transfer	\$ -	\$ 5,616,994	\$ -	\$ 99,015
	8300.232	Disposal	\$ -	\$ 5,616,994	\$ -	\$ 19,004
	8300.270	Frac - Equipment	\$ -	\$ 5,616,994	\$ -	\$ 1,692,841
	8300.250	Downhole Rental Equip	\$ -	\$ 5,616,994	\$ -	\$ 43,391
	8300.277	Consulting Services	\$ -	\$ 5,616,994	\$ -	\$ 116,828
	8300.275	Frac - Sand	\$ -	\$ 5,616,994	\$ -	\$ 1,015,231
	8300.212	Contract Labor	\$ -	\$ 5,616,994	\$ -	\$ 10,678
	8300.209	Chemicals	\$ -	\$ 5,616,994	\$ -	\$ 419,703
	8360.850	Safety / Environmental	\$ -	\$ 341,344	\$ -	\$ 4,400
	8360.825	Rental Equipment	\$ -	\$ 341,344	\$ -	\$ 190,000
	8360.805	Trucked Water Disposal	\$ -	\$ 341,344	\$ -	\$ 21,464
	8360.820	Well Testing / Flowback	\$ -	\$ 341,344	\$ -	\$ 60,746
	8360.815	Trucking/Vacuum/Transp	\$ -	\$ 341,344	\$ -	\$ 14,334
	8360.845	Wellsite Supervision	\$ -	\$ 341,344	\$ -	\$ 50,400
	8320.611	Trucking/Vacuum/Transportation	\$ -	\$ 95,150	\$ -	\$ 10,000
	8320.612	Kill Truck	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.610	Inspection & Testing	\$ -	\$ 95,150	\$ -	\$ 4,000
	8320.621	Rental Equipment	\$ -	\$ 95,150	\$ -	\$ 15,000
	8320.617	Contract Labor/Roustabout	\$ -	\$ 95,150	\$ -	\$ 15,887
	8320.602	Workover Rig	\$ -	\$ 95,150	\$ -	\$ 30,000
	8320.628	Chemicals	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.625	Wellsite Supervision	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.605	Fuel / Power	\$ -	\$ 95,150	\$ -	\$ 5,263
<b>Intangible Facility</b>			\$ -	\$ -	\$ 664,900	\$ 664,900
	8350.404	Equipment Rental	\$ -	\$ -	\$ 31,000	\$ 31,000
	8350.421	Commissioning	\$ -	\$ -	\$ 3,500	\$ 3,500
	8350.416	Supervision	\$ -	\$ -	\$ 29,600	\$ 29,600
	8350.411	Safety & Environmental	\$ -	\$ -	\$ 11,700	\$ 11,700
	8350.410	Transportation/Trucking	\$ -	\$ -	\$ 24,500	\$ 24,500
	8350.418	Mechanical Labor	\$ -	\$ -	\$ 222,500	\$ 222,500
	8350.417	Overhead Power Labor	\$ -	\$ -	\$ 24,600	\$ 24,600
	8350.413	Contingency	\$ -	\$ -	\$ 75,200	\$ 75,200
	8350.420	Electrical Labor	\$ -	\$ -	\$ 61,900	\$ 61,900
	8350.419	Automation Labor	\$ -	\$ -	\$ 21,500	\$ 21,500
	8350.403	Roads/Location	\$ -	\$ -	\$ 85,100	\$ 85,100
	8350.415	Engineering / Technical	\$ -	\$ -	\$ 38,700	\$ 38,700
	8350.422	Flowline Labor	\$ -	\$ -	\$ 35,100	\$ 35,100
<b>TOTAL INTANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 3,068,003	\$ 6,053,488	\$ 664,900	\$ 9,786,391
<b>TOTAL PROJECT COSTS &gt;&gt;&gt;</b>			\$ 3,831,757	\$ 6,656,201	\$ 1,580,000	\$ 12,067,958
			<b>Drilling</b>	<b>Completion</b>	<b>Facility</b>	<b>Total</b>

This Authority for Expenditure is based on cost estimates. Billing will reflect your proportionate share of the actual invoice costs.



**AUTHORIZATION FOR EXPENDITURE**

**JOINT INTEREST APPROVAL:**

Company: \_\_\_\_\_

Working Interest: \_\_\_\_\_

Signature: \_\_\_\_\_

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

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



**AUTHORIZATION FOR EXPENDITURE**

**AFE: NM0610**

Date: January 22, 2024

Well Name: Emerald Federal Com #305H

Projected MD/TVD: 19073/8800

Target: 1BS

Spud to TD: 16.8

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100'FNL, 1320'FEL

Total Fluid (gal/ft): 3000

**PROJECT DESCRIPTION:**

The proposed AFE is for the Emerald Federal Com #305H, a 2 section Bone Springs horizontal well to be drilled in Lea County, NM. The well is a 3 string casing design consisting of the following: 17.5" surface hole drilled on Fresh to 1250' and 13.375" 54.5# J-55 BTC casing will be set and cemented in place; 12.25" hole will then be drilled on Brine to 3500' and a string of 9.625" 40# J-55 BTC casing will be set and cemented in place; 8.75" production hole will then be drilled on OBM to 19073' and a string of 5.5" 20# P-110 HC GBCD casing will be set and cemented in place. There will be 10000' of treatable lateral and the completions design will consist of +/-64 stages at 2500 lbs/ft & 3000 gals/ft. AFE includes associated costs for initial gas lift installation.

	<u>TOTAL</u>
<b>DRILLING:</b>	<b>\$3,831,757.11</b>
<b>COMPLETIONS:</b>	<b>\$6,656,201.06</b>
<b>FACILITIES:</b>	<b>\$1,580,000.00</b>
<b>COMPLETED WELL COST:</b>	<b>\$12,067,958.17</b>

**OPERATOR APPROVAL:**



**AUTHORIZATION FOR EXPENDITURE**

AFE: NM0610

Date: January 22, 2024

Well Name: Emerald Federal Com #305H

Projected MD/TVD: 19073/8800

Target: 1BS

Spud to TD: 16.8

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100'FNL, 1320'FEL

Total Fluid (gal/ft): 3000

TANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Tangible Drilling</b>			\$ 763,754	\$ -	\$ -	\$ 763,754
8400.303	Production Casing		\$ 515,654	\$ -	\$ -	\$ 515,654
8400.340	Wellhead		\$ 56,835	\$ -	\$ -	\$ 56,835
8400.302	Intrm 1&2 Casing		\$ 126,471	\$ -	\$ -	\$ 126,471
8400.301	Surface Casing		\$ 64,795	\$ -	\$ -	\$ 64,795
<b>Tangible Completion</b>			\$ -	\$ 602,713	\$ -	\$ 602,713
8400.352	Wellhead & Equipment		\$ -	\$ 44,205	\$ -	\$ 44,205
8325.711	Wellhead Equipment		\$ -	\$ 63,508	\$ -	\$ 63,508
8325.702	Tubing		\$ -	\$ 90,000	\$ -	\$ 90,000
8325.705	ESP Equipment/Install		\$ -	\$ 40,000	\$ -	\$ 40,000
8325.719	Contract Labor Install		\$ -	\$ 15,000	\$ -	\$ 15,000
8325.704	Downhole Artificial Lift Eqpt		\$ -	\$ 350,000	\$ -	\$ 350,000
<b>Tangible Facility</b>			\$ -	\$ -	\$ 915,100	\$ 915,100
8355.555	Pump / Supplies		\$ -	\$ -	\$ 87,200	\$ 87,200
8355.500	Vessels		\$ -	\$ -	\$ 253,200	\$ 253,200
8355.515	Flare		\$ -	\$ -	\$ 32,000	\$ 32,000
8355.550	Overhead Power Material		\$ -	\$ -	\$ 53,100	\$ 53,100
8355.540	Electrical Supplies		\$ -	\$ -	\$ 68,800	\$ 68,800
8355.530	Compressors		\$ -	\$ -	\$ 11,100	\$ 11,100
8355.510	Tanks		\$ -	\$ -	\$ 128,400	\$ 128,400
8355.565	Flowline		\$ -	\$ -	\$ 49,100	\$ 49,100
8355.535	Instrumentation / Meters		\$ -	\$ -	\$ 60,500	\$ 60,500
8355.525	Containment		\$ -	\$ -	\$ 25,700	\$ 25,700
8355.520	PVF		\$ -	\$ -	\$ 146,000	\$ 146,000
<b>TOTAL TANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 763,754	\$ 602,713	\$ 915,100	\$ 2,281,567

INTANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Intangible Drilling</b>			\$ 3,068,003	\$ -	\$ -	\$ 3,068,003
8200.125	Inspection		\$ 45,258	\$ -	\$ -	\$ 45,258
8200.103	Drilling - Rig Move		\$ 93,673	\$ -	\$ -	\$ 93,673
8200.169	Mud-Brine		\$ 25,837	\$ -	\$ -	\$ 25,837
8200.162	Mancamp		\$ 45,636	\$ -	\$ -	\$ 45,636
8200.170	Mud-Diesel		\$ 110,882	\$ -	\$ -	\$ 110,882
8200.168	Roustabout Services		\$ 2,196	\$ -	\$ -	\$ 2,196
8200.104	Fuel - Rig		\$ 187,966	\$ -	\$ -	\$ 187,966
8200.137	Casing Services		\$ 71,978	\$ -	\$ -	\$ 71,978
8200.106	Transportation		\$ 92,233	\$ -	\$ -	\$ 92,233
8200.124	Equipment Rental		\$ 113,168	\$ -	\$ -	\$ 113,168
8200.165	Safety/Environmental		\$ 2,513	\$ -	\$ -	\$ 2,513
8200.143	Geological Services		\$ 10,112	\$ -	\$ -	\$ 10,112
8200.113	Damages/Row		\$ 7,894	\$ -	\$ -	\$ 7,894
8200.149	Legal, Title, Etc		\$ 10,525	\$ -	\$ -	\$ 10,525
8200.114	Disposal		\$ 191,556	\$ -	\$ -	\$ 191,556
8200.167	Consulting Services		\$ 242,291	\$ -	\$ -	\$ 242,291
8200.115	Mud-Drill Water		\$ 5,671	\$ -	\$ -	\$ 5,671
8200.102	Drilling - Daywork		\$ 806,307	\$ -	\$ -	\$ 806,307
8200.138	Cementing Services		\$ 199,975	\$ -	\$ -	\$ 199,975
8200.112	Location & Roads, Conductor		\$ 124,415	\$ -	\$ -	\$ 124,415
8200.119	Mud-Auxiliary		\$ 31,076	\$ -	\$ -	\$ 31,076
8200.147	Drilling Overhead		\$ 5,194	\$ -	\$ -	\$ 5,194
8200.116	Drill Bits & BHA		\$ 68,512	\$ -	\$ -	\$ 68,512
8200.152	Well Control Ins.		\$ 7,894	\$ -	\$ -	\$ 7,894
8200.111	Survey, Stake/Permit		\$ 5,263	\$ -	\$ -	\$ 5,263



**AUTHORIZATION FOR EXPENDITURE**

	8200.117	Mud & Chemicals	\$ 175,212	\$ -	\$ -	\$ 175,212
	8200.144	Company Supervision	\$ 2,400	\$ -	\$ -	\$ 2,400
	8200.128	Drilling - Directional	\$ 243,572	\$ -	\$ -	\$ 243,572
	8200.127	Contract Labor	\$ 27,255	\$ -	\$ -	\$ 27,255
	8200.164	Solids Control & Closed Loop	\$ 111,542	\$ -	\$ -	\$ 111,542
<b>Intangible Completion</b>			\$ -	\$ 6,053,488	\$ -	\$ 6,053,488
	8300.273	Flowback	\$ -	\$ 5,616,994	\$ -	\$ 7,821
	8300.203	Fuel	\$ -	\$ 5,616,994	\$ -	\$ 683,704
	8300.214	Perforating & Plugs	\$ -	\$ 5,616,994	\$ -	\$ 390,293
	8300.248	Mancamp	\$ -	\$ 5,616,994	\$ -	\$ 21,324
	8300.205	Location & Roads	\$ -	\$ 5,616,994	\$ -	\$ 5,288
	8300.240	Pump Down Services	\$ -	\$ 5,616,994	\$ -	\$ 101,040
	8300.220	Engineering & Supervision	\$ -	\$ 5,616,994	\$ -	\$ 15,156
	8300.210	Surface Rental Equip	\$ -	\$ 5,616,994	\$ -	\$ 305,001
	8300.229	Transportation	\$ -	\$ 5,616,994	\$ -	\$ 5,263
	8300.276	Safety & Environmental	\$ -	\$ 5,616,994	\$ -	\$ 3,473
	8300.271	Coil Tubing	\$ -	\$ 5,616,994	\$ -	\$ 113,093
	8300.243	Analysis	\$ -	\$ 5,616,994	\$ -	\$ 9,473
	8300.207	Fresh Water	\$ -	\$ 5,616,994	\$ -	\$ 537,798
	8300.278	Roustabouts	\$ -	\$ 5,616,994	\$ -	\$ 1,579
	8300.274	Water Transfer	\$ -	\$ 5,616,994	\$ -	\$ 99,015
	8300.232	Disposal	\$ -	\$ 5,616,994	\$ -	\$ 19,004
	8300.270	Frac - Equipment	\$ -	\$ 5,616,994	\$ -	\$ 1,692,841
	8300.250	Downhole Rental Equip	\$ -	\$ 5,616,994	\$ -	\$ 43,391
	8300.277	Consulting Services	\$ -	\$ 5,616,994	\$ -	\$ 116,828
	8300.275	Frac - Sand	\$ -	\$ 5,616,994	\$ -	\$ 1,015,231
	8300.212	Contract Labor	\$ -	\$ 5,616,994	\$ -	\$ 10,678
	8300.209	Chemicals	\$ -	\$ 5,616,994	\$ -	\$ 419,703
	8360.850	Safety / Environmental	\$ -	\$ 341,344	\$ -	\$ 4,400
	8360.825	Rental Equipment	\$ -	\$ 341,344	\$ -	\$ 190,000
	8360.805	Trucked Water Disposal	\$ -	\$ 341,344	\$ -	\$ 21,464
	8360.820	Well Testing / Flowback	\$ -	\$ 341,344	\$ -	\$ 60,746
	8360.815	Trucking/Vacuum/Transp	\$ -	\$ 341,344	\$ -	\$ 14,334
	8360.845	Wellsite Supervision	\$ -	\$ 341,344	\$ -	\$ 50,400
	8320.611	Trucking/Vacuum/Transportation	\$ -	\$ 95,150	\$ -	\$ 10,000
	8320.612	Kill Truck	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.610	Inspection & Testing	\$ -	\$ 95,150	\$ -	\$ 4,000
	8320.621	Rental Equipment	\$ -	\$ 95,150	\$ -	\$ 15,000
	8320.617	Contract Labor/Roustabout	\$ -	\$ 95,150	\$ -	\$ 15,887
	8320.602	Workover Rig	\$ -	\$ 95,150	\$ -	\$ 30,000
	8320.628	Chemicals	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.625	Wellsite Supervision	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.605	Fuel / Power	\$ -	\$ 95,150	\$ -	\$ 5,263
<b>Intangible Facility</b>			\$ -	\$ -	\$ 664,900	\$ 664,900
	8350.404	Equipment Rental	\$ -	\$ -	\$ 31,000	\$ 31,000
	8350.421	Commissioning	\$ -	\$ -	\$ 3,500	\$ 3,500
	8350.416	Supervision	\$ -	\$ -	\$ 29,600	\$ 29,600
	8350.411	Safety & Environmental	\$ -	\$ -	\$ 11,700	\$ 11,700
	8350.410	Transportation/Trucking	\$ -	\$ -	\$ 24,500	\$ 24,500
	8350.418	Mechanical Labor	\$ -	\$ -	\$ 222,500	\$ 222,500
	8350.417	Overhead Power Labor	\$ -	\$ -	\$ 24,600	\$ 24,600
	8350.413	Contingency	\$ -	\$ -	\$ 75,200	\$ 75,200
	8350.420	Electrical Labor	\$ -	\$ -	\$ 61,900	\$ 61,900
	8350.419	Automation Labor	\$ -	\$ -	\$ 21,500	\$ 21,500
	8350.403	Roads/Location	\$ -	\$ -	\$ 85,100	\$ 85,100
	8350.415	Engineering / Technical	\$ -	\$ -	\$ 38,700	\$ 38,700
	8350.422	Flowline Labor	\$ -	\$ -	\$ 35,100	\$ 35,100
<b>TOTAL INTANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 3,068,003	\$ 6,053,488	\$ 664,900	\$ 9,786,391
<b>TOTAL PROJECT COSTS &gt;&gt;&gt;</b>			\$ 3,831,757	\$ 6,656,201	\$ 1,580,000	\$ 12,067,958
			<b>Drilling</b>	<b>Completion</b>	<b>Facility</b>	<b>Total</b>

This Authority for Expenditure is based on cost estimates. Billing will reflect your proportionate share of the actual invoice costs.



**AUTHORIZATION FOR EXPENDITURE**

**JOINT INTEREST APPROVAL:**

Company: \_\_\_\_\_

Working Interest: \_\_\_\_\_

Signature: \_\_\_\_\_

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

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



**AUTHORIZATION FOR EXPENDITURE**

**AFE: NM0611**

Date: January 22, 2024

Well Name: Emerald Federal Com #306H

Projected MD/TVD: 19073/8800

Target: 1BS

Spud to TD: 16.8

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100'FNL, 330'FEL

Total Fluid (gal/ft): 3000

**PROJECT DESCRIPTION:**

The proposed AFE is for the Emerald Federal Com #306H, a 2 section Bone Springs horizontal well to be drilled in Lea County, NM. The well is a 3 string casing design consisting of the following: 17.5" surface hole drilled on Fresh to 1250' and 13.375" 54.5# J-55 BTC casing will be set and cemented in place; 12.25" hole will then be drilled on Brine to 3500' and a string of 9.625" 40# J-55 BTC casing will be set and cemented in place; 8.75" production hole will then be drilled on OBM to 19073' and a string of 5.5" 20# P-110 HC GBCD casing will be set and cemented in place. There will be 10000' of treatable lateral and the completions design will consist of +/-64 stages at 2500 lbs/ft & 3000 gals/ft. AFE includes associated costs for initial gas lift installation.

	<u>TOTAL</u>
<b>DRILLING:</b>	<b>\$3,831,757.11</b>
<b>COMPLETIONS:</b>	<b>\$6,656,201.06</b>
<b>FACILITIES:</b>	<b>\$1,580,000.00</b>
<b>COMPLETED WELL COST:</b>	<b>\$12,067,958.17</b>

**OPERATOR APPROVAL:**



**AUTHORIZATION FOR EXPENDITURE**

AFE: NM0611

Date: January 22, 2024

Well Name: Emerald Federal Com #306H

Projected MD/TVD: 19073/8800

Target: 1BS

Spud to TD: 16.8

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100'FNL, 330'FEL

Total Fluid (gal/ft): 3000

TANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Tangible Drilling</b>			\$ 763,754	\$ -	\$ -	\$ 763,754
8400.303	Production Casing		\$ 515,654	\$ -	\$ -	\$ 515,654
8400.340	Wellhead		\$ 56,835	\$ -	\$ -	\$ 56,835
8400.302	Intrm 1&2 Casing		\$ 126,471	\$ -	\$ -	\$ 126,471
8400.301	Surface Casing		\$ 64,795	\$ -	\$ -	\$ 64,795
<b>Tangible Completion</b>			\$ -	\$ 602,713	\$ -	\$ 602,713
8400.352	Wellhead & Equipment		\$ -	\$ 44,205	\$ -	\$ 44,205
8325.711	Wellhead Equipment		\$ -	\$ 63,508	\$ -	\$ 63,508
8325.702	Tubing		\$ -	\$ 90,000	\$ -	\$ 90,000
8325.705	ESP Equipment/Install		\$ -	\$ 40,000	\$ -	\$ 40,000
8325.719	Contract Labor Install		\$ -	\$ 15,000	\$ -	\$ 15,000
8325.704	Downhole Artificial Lift Eqpt		\$ -	\$ 350,000	\$ -	\$ 350,000
<b>Tangible Facility</b>			\$ -	\$ -	\$ 915,100	\$ 915,100
8355.555	Pump / Supplies		\$ -	\$ -	\$ 87,200	\$ 87,200
8355.500	Vessels		\$ -	\$ -	\$ 253,200	\$ 253,200
8355.515	Flare		\$ -	\$ -	\$ 32,000	\$ 32,000
8355.550	Overhead Power Material		\$ -	\$ -	\$ 53,100	\$ 53,100
8355.540	Electrical Supplies		\$ -	\$ -	\$ 68,800	\$ 68,800
8355.530	Compressors		\$ -	\$ -	\$ 11,100	\$ 11,100
8355.510	Tanks		\$ -	\$ -	\$ 128,400	\$ 128,400
8355.565	Flowline		\$ -	\$ -	\$ 49,100	\$ 49,100
8355.535	Instrumentation / Meters		\$ -	\$ -	\$ 60,500	\$ 60,500
8355.525	Containment		\$ -	\$ -	\$ 25,700	\$ 25,700
8355.520	PVF		\$ -	\$ -	\$ 146,000	\$ 146,000
<b>TOTAL TANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 763,754	\$ 602,713	\$ 915,100	\$ 2,281,567

INTANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Intangible Drilling</b>			\$ 3,068,003	\$ -	\$ -	\$ 3,068,003
8200.125	Inspection		\$ 45,258	\$ -	\$ -	\$ 45,258
8200.103	Drilling - Rig Move		\$ 93,673	\$ -	\$ -	\$ 93,673
8200.169	Mud-Brine		\$ 25,837	\$ -	\$ -	\$ 25,837
8200.162	Mancamp		\$ 45,636	\$ -	\$ -	\$ 45,636
8200.170	Mud-Diesel		\$ 110,882	\$ -	\$ -	\$ 110,882
8200.168	Roustabout Services		\$ 2,196	\$ -	\$ -	\$ 2,196
8200.104	Fuel - Rig		\$ 187,966	\$ -	\$ -	\$ 187,966
8200.137	Casing Services		\$ 71,978	\$ -	\$ -	\$ 71,978
8200.106	Transportation		\$ 92,233	\$ -	\$ -	\$ 92,233
8200.124	Equipment Rental		\$ 113,168	\$ -	\$ -	\$ 113,168
8200.165	Safety/Environmental		\$ 2,513	\$ -	\$ -	\$ 2,513
8200.143	Geological Services		\$ 10,112	\$ -	\$ -	\$ 10,112
8200.113	Damages/Row		\$ 7,894	\$ -	\$ -	\$ 7,894
8200.149	Legal, Title, Etc		\$ 10,525	\$ -	\$ -	\$ 10,525
8200.114	Disposal		\$ 191,556	\$ -	\$ -	\$ 191,556
8200.167	Consulting Services		\$ 242,291	\$ -	\$ -	\$ 242,291
8200.115	Mud-Drill Water		\$ 5,671	\$ -	\$ -	\$ 5,671
8200.102	Drilling - Daywork		\$ 806,307	\$ -	\$ -	\$ 806,307
8200.138	Cementing Services		\$ 199,975	\$ -	\$ -	\$ 199,975
8200.112	Location & Roads, Conductor		\$ 124,415	\$ -	\$ -	\$ 124,415
8200.119	Mud-Auxiliary		\$ 31,076	\$ -	\$ -	\$ 31,076
8200.147	Drilling Overhead		\$ 5,194	\$ -	\$ -	\$ 5,194
8200.116	Drill Bits & BHA		\$ 68,512	\$ -	\$ -	\$ 68,512
8200.152	Well Control Ins.		\$ 7,894	\$ -	\$ -	\$ 7,894
8200.111	Survey, Stake/Permit		\$ 5,263	\$ -	\$ -	\$ 5,263



**AUTHORIZATION FOR EXPENDITURE**

	8200.117	Mud & Chemicals	\$ 175,212	\$ -	\$ -	\$ 175,212
	8200.144	Company Supervision	\$ 2,400	\$ -	\$ -	\$ 2,400
	8200.128	Drilling - Directional	\$ 243,572	\$ -	\$ -	\$ 243,572
	8200.127	Contract Labor	\$ 27,255	\$ -	\$ -	\$ 27,255
	8200.164	Solids Control & Closed Loop	\$ 111,542	\$ -	\$ -	\$ 111,542
<b>Intangible Completion</b>			\$ -	\$ 6,053,488	\$ -	\$ 6,053,488
	8300.273	Flowback	\$ -	\$ 5,616,994	\$ -	\$ 7,821
	8300.203	Fuel	\$ -	\$ 5,616,994	\$ -	\$ 683,704
	8300.214	Perforating & Plugs	\$ -	\$ 5,616,994	\$ -	\$ 390,293
	8300.248	Mancamp	\$ -	\$ 5,616,994	\$ -	\$ 21,324
	8300.205	Location & Roads	\$ -	\$ 5,616,994	\$ -	\$ 5,288
	8300.240	Pump Down Services	\$ -	\$ 5,616,994	\$ -	\$ 101,040
	8300.220	Engineering & Supervision	\$ -	\$ 5,616,994	\$ -	\$ 15,156
	8300.210	Surface Rental Equip	\$ -	\$ 5,616,994	\$ -	\$ 305,001
	8300.229	Transportation	\$ -	\$ 5,616,994	\$ -	\$ 5,263
	8300.276	Safety & Environmental	\$ -	\$ 5,616,994	\$ -	\$ 3,473
	8300.271	Coil Tubing	\$ -	\$ 5,616,994	\$ -	\$ 113,093
	8300.243	Analysis	\$ -	\$ 5,616,994	\$ -	\$ 9,473
	8300.207	Fresh Water	\$ -	\$ 5,616,994	\$ -	\$ 537,798
	8300.278	Roustabouts	\$ -	\$ 5,616,994	\$ -	\$ 1,579
	8300.274	Water Transfer	\$ -	\$ 5,616,994	\$ -	\$ 99,015
	8300.232	Disposal	\$ -	\$ 5,616,994	\$ -	\$ 19,004
	8300.270	Frac - Equipment	\$ -	\$ 5,616,994	\$ -	\$ 1,692,841
	8300.250	Downhole Rental Equip	\$ -	\$ 5,616,994	\$ -	\$ 43,391
	8300.277	Consulting Services	\$ -	\$ 5,616,994	\$ -	\$ 116,828
	8300.275	Frac - Sand	\$ -	\$ 5,616,994	\$ -	\$ 1,015,231
	8300.212	Contract Labor	\$ -	\$ 5,616,994	\$ -	\$ 10,678
	8300.209	Chemicals	\$ -	\$ 5,616,994	\$ -	\$ 419,703
	8360.850	Safety / Environmental	\$ -	\$ 341,344	\$ -	\$ 4,400
	8360.825	Rental Equipment	\$ -	\$ 341,344	\$ -	\$ 190,000
	8360.805	Trucked Water Disposal	\$ -	\$ 341,344	\$ -	\$ 21,464
	8360.820	Well Testing / Flowback	\$ -	\$ 341,344	\$ -	\$ 60,746
	8360.815	Trucking/Vacuum/Transp	\$ -	\$ 341,344	\$ -	\$ 14,334
	8360.845	Wellsite Supervision	\$ -	\$ 341,344	\$ -	\$ 50,400
	8320.611	Trucking/Vacuum/Transportation	\$ -	\$ 95,150	\$ -	\$ 10,000
	8320.612	Kill Truck	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.610	Inspection & Testing	\$ -	\$ 95,150	\$ -	\$ 4,000
	8320.621	Rental Equipment	\$ -	\$ 95,150	\$ -	\$ 15,000
	8320.617	Contract Labor/Roustabout	\$ -	\$ 95,150	\$ -	\$ 15,887
	8320.602	Workover Rig	\$ -	\$ 95,150	\$ -	\$ 30,000
	8320.628	Chemicals	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.625	Wellsite Supervision	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.605	Fuel / Power	\$ -	\$ 95,150	\$ -	\$ 5,263
<b>Intangible Facility</b>			\$ -	\$ -	\$ 664,900	\$ 664,900
	8350.404	Equipment Rental	\$ -	\$ -	\$ 31,000	\$ 31,000
	8350.421	Commissioning	\$ -	\$ -	\$ 3,500	\$ 3,500
	8350.416	Supervision	\$ -	\$ -	\$ 29,600	\$ 29,600
	8350.411	Safety & Environmental	\$ -	\$ -	\$ 11,700	\$ 11,700
	8350.410	Transportation/Trucking	\$ -	\$ -	\$ 24,500	\$ 24,500
	8350.418	Mechanical Labor	\$ -	\$ -	\$ 222,500	\$ 222,500
	8350.417	Overhead Power Labor	\$ -	\$ -	\$ 24,600	\$ 24,600
	8350.413	Contingency	\$ -	\$ -	\$ 75,200	\$ 75,200
	8350.420	Electrical Labor	\$ -	\$ -	\$ 61,900	\$ 61,900
	8350.419	Automation Labor	\$ -	\$ -	\$ 21,500	\$ 21,500
	8350.403	Roads/Location	\$ -	\$ -	\$ 85,100	\$ 85,100
	8350.415	Engineering / Technical	\$ -	\$ -	\$ 38,700	\$ 38,700
	8350.422	Flowline Labor	\$ -	\$ -	\$ 35,100	\$ 35,100
<b>TOTAL INTANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 3,068,003	\$ 6,053,488	\$ 664,900	\$ 9,786,391
<b>TOTAL PROJECT COSTS &gt;&gt;&gt;</b>			\$ 3,831,757	\$ 6,656,201	\$ 1,580,000	\$ 12,067,958
			<b>Drilling</b>	<b>Completion</b>	<b>Facility</b>	<b>Total</b>

This Authority for Expenditure is based on cost estimates. Billing will reflect your proportionate share of the actual invoice costs.



**AUTHORIZATION FOR EXPENDITURE**

**JOINT INTEREST APPROVAL:**

Company: \_\_\_\_\_

Working Interest: \_\_\_\_\_

Signature: \_\_\_\_\_

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

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



**AUTHORIZATION FOR EXPENDITURE**

**AFE: NM0603**

Date: January 22, 2024

Well Name: Emerald Federal Com #501H

Projected MD/TVD: 20173/9800

Target: 2BS

Spud to TD: 17.3

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100' FSL, 330' FWL

Total Fluid (gal/ft): 3000

**PROJECT DESCRIPTION:**

The proposed AFE is for the Emerald Federal Com #501H, a 2 section Bone Springs horizontal well to be drilled in Lea County, NM. The well is a 3 string casing design consisting of the following: 17.5" surface hole drilled on Fresh to 1250' and 13.375" 54.5# J-55 BTC casing will be set and cemented in place; 12.25" hole will then be drilled on Brine to 3500' and a string of 9.625" 40# J-55 BTC casing will be set and cemented in place; 8.75" production hole will then be drilled on OBM to 20173' and a string of 5.5" 20# P-110 HC GBCD casing will be set and cemented in place. There will be 10000' of treatable lateral and the completions design will consist of +/-64 stages at 2500 lbs/ft & 3000 gals/ft. AFE includes associated costs for initial gas lift installation.

	<u>TOTAL</u>
<b>DRILLING:</b>	<b>\$3,874,027.40</b>
<b>COMPLETIONS:</b>	<b>\$6,659,324.81</b>
<b>FACILITIES:</b>	<b>\$1,580,000.00</b>
<b>COMPLETED WELL COST:</b>	<b>\$12,113,352.21</b>

**OPERATOR APPROVAL:**



**AUTHORIZATION FOR EXPENDITURE**

AFE: NM0603

Date: January 22, 2024

Well Name: Emerald Federal Com #501H

Projected MD/TVD: 20173/9800

Target: 2BS

Spud to TD: 17.3

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100' FSL, 330' FWL

Total Fluid (gal/ft): 3000

TANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Tangible Drilling</b>			\$ 776,700	\$ -	\$ -	\$ 776,700
	8400.301	Surface Casing	\$ 64,795	\$ -	\$ -	\$ 64,795
	8400.302	Intrm 1&2 Casing	\$ 126,471	\$ -	\$ -	\$ 126,471
	8400.340	Wellhead	\$ 56,835	\$ -	\$ -	\$ 56,835
	8400.303	Production Casing	\$ 528,600	\$ -	\$ -	\$ 528,600
<b>Tangible Completion</b>			\$ -	\$ 602,713	\$ -	\$ 602,713
	8400.352	Wellhead & Equipment	\$ -	\$ 44,205	\$ -	\$ 44,205
	8325.711	Wellhead Equipment	\$ -	\$ 63,508	\$ -	\$ 63,508
	8325.702	Tubing	\$ -	\$ 90,000	\$ -	\$ 90,000
	8325.719	Contract Labor Install	\$ -	\$ 15,000	\$ -	\$ 15,000
	8325.705	ESP Equipment/Install	\$ -	\$ 40,000	\$ -	\$ 40,000
	8325.704	Downhole Artificial Lift Eqpt	\$ -	\$ 350,000	\$ -	\$ 350,000
<b>Tangible Facility</b>			\$ -	\$ -	\$ 915,100	\$ 915,100
	8355.525	Containment	\$ -	\$ -	\$ 25,700	\$ 25,700
	8355.565	Flowline	\$ -	\$ -	\$ 49,100	\$ 49,100
	8355.535	Instrumentation / Meters	\$ -	\$ -	\$ 60,500	\$ 60,500
	8355.555	Pump / Supplies	\$ -	\$ -	\$ 87,200	\$ 87,200
	8355.550	Overhead Power Material	\$ -	\$ -	\$ 53,100	\$ 53,100
	8355.510	Tanks	\$ -	\$ -	\$ 128,400	\$ 128,400
	8355.515	Flare	\$ -	\$ -	\$ 32,000	\$ 32,000
	8355.500	Vessels	\$ -	\$ -	\$ 253,200	\$ 253,200
	8355.530	Compressors	\$ -	\$ -	\$ 11,100	\$ 11,100
	8355.540	Electrical Supplies	\$ -	\$ -	\$ 68,800	\$ 68,800
	8355.520	PVF	\$ -	\$ -	\$ 146,000	\$ 146,000
<b>TOTAL TANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 776,700	\$ 602,713	\$ 915,100	\$ 2,294,513

INTANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Intangible Drilling</b>			\$ 3,097,328	\$ -	\$ -	\$ 3,097,328
	8200.117	Mud & Chemicals	\$ 176,172	\$ -	\$ -	\$ 176,172
	8200.169	Mud-Brine	\$ 25,837	\$ -	\$ -	\$ 25,837
	8200.125	Inspection	\$ 45,258	\$ -	\$ -	\$ 45,258
	8200.112	Location & Roads, Conductor	\$ 124,415	\$ -	\$ -	\$ 124,415
	8200.138	Cementing Services	\$ 199,975	\$ -	\$ -	\$ 199,975
	8200.144	Company Supervision	\$ 2,400	\$ -	\$ -	\$ 2,400
	8200.128	Drilling - Directional	\$ 246,815	\$ -	\$ -	\$ 246,815
	8200.111	Survey, Stake/Permit	\$ 5,263	\$ -	\$ -	\$ 5,263
	8200.170	Mud-Diesel	\$ 110,882	\$ -	\$ -	\$ 110,882
	8200.167	Consulting Services	\$ 246,443	\$ -	\$ -	\$ 246,443
	8200.113	Damages/Row	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.152	Well Control Ins.	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.168	Roustabout Services	\$ 2,202	\$ -	\$ -	\$ 2,202
	8200.162	Mancamp	\$ 45,996	\$ -	\$ -	\$ 45,996
	8200.124	Equipment Rental	\$ 114,515	\$ -	\$ -	\$ 114,515
	8200.115	Mud-Drill Water	\$ 5,718	\$ -	\$ -	\$ 5,718
	8200.116	Drill Bits & BHA	\$ 68,656	\$ -	\$ -	\$ 68,656
	8200.119	Mud-Auxiliary	\$ 31,269	\$ -	\$ -	\$ 31,269
	8200.114	Disposal	\$ 192,069	\$ -	\$ -	\$ 192,069
	8200.104	Fuel - Rig	\$ 190,965	\$ -	\$ -	\$ 190,965
	8200.143	Geological Services	\$ 10,157	\$ -	\$ -	\$ 10,157
	8200.106	Transportation	\$ 93,811	\$ -	\$ -	\$ 93,811
	8200.102	Drilling - Daywork	\$ 818,273	\$ -	\$ -	\$ 818,273
	8200.103	Drilling - Rig Move	\$ 93,673	\$ -	\$ -	\$ 93,673
	8200.149	Legal, Title, Etc	\$ 10,525	\$ -	\$ -	\$ 10,525



**AUTHORIZATION FOR EXPENDITURE**

	8200.147	Drilling Overhead	\$ 5,272	\$ -	\$ -	\$ 5,272
	8200.127	Contract Labor	\$ 27,255	\$ -	\$ -	\$ 27,255
	8200.164	Solids Control & Closed Loop	\$ 113,092	\$ -	\$ -	\$ 113,092
	8200.165	Safety/Environmental	\$ 2,545	\$ -	\$ -	\$ 2,545
	8200.137	Casing Services	\$ 72,089	\$ -	\$ -	\$ 72,089
<b>Intangible Completion</b>			\$ -	\$ 6,056,612	\$ -	\$ 6,056,612
	8300.277	Consulting Services	\$ -	\$ 5,620,118	\$ -	\$ 116,828
	8300.229	Transportation	\$ -	\$ 5,620,118	\$ -	\$ 5,263
	8300.214	Perforating & Plugs	\$ -	\$ 5,620,118	\$ -	\$ 390,293
	8300.205	Location & Roads	\$ -	\$ 5,620,118	\$ -	\$ 5,288
	8300.271	Coil Tubing	\$ -	\$ 5,620,118	\$ -	\$ 113,408
	8300.243	Analysis	\$ -	\$ 5,620,118	\$ -	\$ 9,473
	8300.273	Flowback	\$ -	\$ 5,620,118	\$ -	\$ 7,821
	8300.248	Mancamp	\$ -	\$ 5,620,118	\$ -	\$ 21,324
	8300.275	Frac - Sand	\$ -	\$ 5,620,118	\$ -	\$ 1,015,231
	8300.210	Surface Rental Equip	\$ -	\$ 5,620,118	\$ -	\$ 305,001
	8300.203	Fuel	\$ -	\$ 5,620,118	\$ -	\$ 683,704
	8300.274	Water Transfer	\$ -	\$ 5,620,118	\$ -	\$ 99,015
	8300.278	Roustabouts	\$ -	\$ 5,620,118	\$ -	\$ 1,579
	8300.270	Frac - Equipment	\$ -	\$ 5,620,118	\$ -	\$ 1,692,841
	8300.232	Disposal	\$ -	\$ 5,620,118	\$ -	\$ 19,004
	8300.212	Contract Labor	\$ -	\$ 5,620,118	\$ -	\$ 10,678
	8300.240	Pump Down Services	\$ -	\$ 5,620,118	\$ -	\$ 101,040
	8300.279	Completions Overhead	\$ -	\$ 5,620,118	\$ -	\$ 2,808
	8300.209	Chemicals	\$ -	\$ 5,620,118	\$ -	\$ 419,703
	8300.207	Fresh Water	\$ -	\$ 5,620,118	\$ -	\$ 537,798
	8300.250	Downhole Rental Equip	\$ -	\$ 5,620,118	\$ -	\$ 43,391
	8300.220	Engineering & Supervision	\$ -	\$ 5,620,118	\$ -	\$ 15,156
	8300.276	Safety & Environmental	\$ -	\$ 5,620,118	\$ -	\$ 3,473
	8360.805	Trucked Water Disposal	\$ -	\$ 341,344	\$ -	\$ 21,464
	8360.820	Well Testing / Flowback	\$ -	\$ 341,344	\$ -	\$ 60,746
	8360.825	Rental Equipment	\$ -	\$ 341,344	\$ -	\$ 190,000
	8360.850	Safety / Environmental	\$ -	\$ 341,344	\$ -	\$ 4,400
	8360.845	Wellsite Supervision	\$ -	\$ 341,344	\$ -	\$ 50,400
	8360.815	Trucking/Vacuum/Transp	\$ -	\$ 341,344	\$ -	\$ 14,334
	8320.611	Trucking/Vacuum/Transportation	\$ -	\$ 95,150	\$ -	\$ 10,000
	8320.625	Wellsite Supervision	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.612	Kill Truck	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.628	Chemicals	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.621	Rental Equipment	\$ -	\$ 95,150	\$ -	\$ 15,000
	8320.605	Fuel / Power	\$ -	\$ 95,150	\$ -	\$ 5,263
	8320.617	Contract Labor/Roustabout	\$ -	\$ 95,150	\$ -	\$ 15,887
	8320.610	Inspection & Testing	\$ -	\$ 95,150	\$ -	\$ 4,000
	8320.602	Workover Rig	\$ -	\$ 95,150	\$ -	\$ 30,000
<b>Intangible Facility</b>			\$ -	\$ -	\$ 664,900	\$ 664,900
	8350.420	Electrical Labor	\$ -	\$ -	\$ 61,900	\$ 61,900
	8350.410	Transportation/Trucking	\$ -	\$ -	\$ 24,500	\$ 24,500
	8350.418	Mechanical Labor	\$ -	\$ -	\$ 222,500	\$ 222,500
	8350.416	Supervision	\$ -	\$ -	\$ 29,600	\$ 29,600
	8350.404	Equipment Rental	\$ -	\$ -	\$ 31,000	\$ 31,000
	8350.411	Safety & Environmental	\$ -	\$ -	\$ 11,700	\$ 11,700
	8350.403	Roads/Location	\$ -	\$ -	\$ 85,100	\$ 85,100
	8350.421	Commissioning	\$ -	\$ -	\$ 3,500	\$ 3,500
	8350.419	Automation Labor	\$ -	\$ -	\$ 21,500	\$ 21,500
	8350.417	Overhead Power Labor	\$ -	\$ -	\$ 24,600	\$ 24,600
	8350.422	Flowline Labor	\$ -	\$ -	\$ 35,100	\$ 35,100
	8350.415	Engineering / Technical	\$ -	\$ -	\$ 38,700	\$ 38,700
	8350.413	Contingency	\$ -	\$ -	\$ 75,200	\$ 75,200
<b>TOTAL INTANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 3,097,328	\$ 6,056,612	\$ 664,900	\$ 9,818,840
<b>TOTAL PROJECT COSTS &gt;&gt;&gt;</b>			\$ 3,874,027	\$ 6,659,325	\$ 1,580,000	\$ 12,113,352
			<b>Drilling</b>	<b>Completion</b>	<b>Facility</b>	<b>Total</b>

This Authority for Expenditure is based on cost estimates. Billing will reflect your proportionate share of the actual invoice costs.



**AUTHORIZATION FOR EXPENDITURE**

**JOINT INTEREST APPROVAL:**

Company: \_\_\_\_\_

Working Interest: \_\_\_\_\_

Signature: \_\_\_\_\_

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

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



**AUTHORIZATION FOR EXPENDITURE**

**AFE: NM0604**

Date: January 22, 2024

Well Name: Emerald Federal Com #502H

Projected MD/TVD: 20173/9800

Target: 2BS

Spud to TD: 17.3

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100' FSL, 1320' FWL

Total Fluid (gal/ft): 3000

**PROJECT DESCRIPTION:**

The proposed AFE is for the Emerald Federal Com #502H, a 2 section Bone Springs horizontal well to be drilled in Lea County, NM. The well is a 3 string casing design consisting of the following: 17.5" surface hole drilled on Fresh to 1250' and 13.375" 54.5# J-55 BTC casing will be set and cemented in place; 12.25" hole will then be drilled on Brine to 3500' and a string of 9.625" 40# J-55 BTC casing will be set and cemented in place; 8.75" production hole will then be drilled on OBM to 20173' and a string of 5.5" 20# P-110 HC GBCD casing will be set and cemented in place. There will be 10000' of treatable lateral and the completions design will consist of +/-64 stages at 2500 lbs/ft & 3000 gals/ft. AFE includes associated costs for initial gas lift installation.

	<u>TOTAL</u>
<b>DRILLING:</b>	<b>\$3,874,027.40</b>
<b>COMPLETIONS:</b>	<b>\$6,659,324.81</b>
<b>FACILITIES:</b>	<b>\$1,580,000.00</b>
<b>COMPLETED WELL COST:</b>	<b>\$12,113,352.21</b>

**OPERATOR APPROVAL:**



**AUTHORIZATION FOR EXPENDITURE**

AFE: NM0604

Date: January 22, 2024

Well Name: Emerald Federal Com #502H

Projected MD/TVD: 20173/9800

Target: 2BS

Spud to TD: 17.3

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100' FSL, 1320' FWL

Total Fluid (gal/ft): 3000

TANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Tangible Drilling</b>			\$ 776,700	\$ -	\$ -	\$ 776,700
	8400.301	Surface Casing	\$ 64,795	\$ -	\$ -	\$ 64,795
	8400.302	Intrm 1&2 Casing	\$ 126,471	\$ -	\$ -	\$ 126,471
	8400.340	Wellhead	\$ 56,835	\$ -	\$ -	\$ 56,835
	8400.303	Production Casing	\$ 528,600	\$ -	\$ -	\$ 528,600
<b>Tangible Completion</b>			\$ -	\$ 602,713	\$ -	\$ 602,713
	8400.352	Wellhead & Equipment	\$ -	\$ 44,205	\$ -	\$ 44,205
	8325.711	Wellhead Equipment	\$ -	\$ 63,508	\$ -	\$ 63,508
	8325.702	Tubing	\$ -	\$ 90,000	\$ -	\$ 90,000
	8325.719	Contract Labor Install	\$ -	\$ 15,000	\$ -	\$ 15,000
	8325.705	ESP Equipment/Install	\$ -	\$ 40,000	\$ -	\$ 40,000
	8325.704	Downhole Artificial Lift Eqpt	\$ -	\$ 350,000	\$ -	\$ 350,000
<b>Tangible Facility</b>			\$ -	\$ -	\$ 915,100	\$ 915,100
	8355.525	Containment	\$ -	\$ -	\$ 25,700	\$ 25,700
	8355.565	Flowline	\$ -	\$ -	\$ 49,100	\$ 49,100
	8355.535	Instrumentation / Meters	\$ -	\$ -	\$ 60,500	\$ 60,500
	8355.555	Pump / Supplies	\$ -	\$ -	\$ 87,200	\$ 87,200
	8355.550	Overhead Power Material	\$ -	\$ -	\$ 53,100	\$ 53,100
	8355.510	Tanks	\$ -	\$ -	\$ 128,400	\$ 128,400
	8355.515	Flare	\$ -	\$ -	\$ 32,000	\$ 32,000
	8355.500	Vessels	\$ -	\$ -	\$ 253,200	\$ 253,200
	8355.530	Compressors	\$ -	\$ -	\$ 11,100	\$ 11,100
	8355.540	Electrical Supplies	\$ -	\$ -	\$ 68,800	\$ 68,800
	8355.520	PVF	\$ -	\$ -	\$ 146,000	\$ 146,000
<b>TOTAL TANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 776,700	\$ 602,713	\$ 915,100	\$ 2,294,513

INTANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Intangible Drilling</b>			\$ 3,097,328	\$ -	\$ -	\$ 3,097,328
	8200.117	Mud & Chemicals	\$ 176,172	\$ -	\$ -	\$ 176,172
	8200.169	Mud-Brine	\$ 25,837	\$ -	\$ -	\$ 25,837
	8200.125	Inspection	\$ 45,258	\$ -	\$ -	\$ 45,258
	8200.112	Location & Roads, Conductor	\$ 124,415	\$ -	\$ -	\$ 124,415
	8200.138	Cementing Services	\$ 199,975	\$ -	\$ -	\$ 199,975
	8200.144	Company Supervision	\$ 2,400	\$ -	\$ -	\$ 2,400
	8200.128	Drilling - Directional	\$ 246,815	\$ -	\$ -	\$ 246,815
	8200.111	Survey, Stake/Permit	\$ 5,263	\$ -	\$ -	\$ 5,263
	8200.170	Mud-Diesel	\$ 110,882	\$ -	\$ -	\$ 110,882
	8200.167	Consulting Services	\$ 246,443	\$ -	\$ -	\$ 246,443
	8200.113	Damages/Row	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.152	Well Control Ins.	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.168	Roustabout Services	\$ 2,202	\$ -	\$ -	\$ 2,202
	8200.162	Mancamp	\$ 45,996	\$ -	\$ -	\$ 45,996
	8200.124	Equipment Rental	\$ 114,515	\$ -	\$ -	\$ 114,515
	8200.115	Mud-Drill Water	\$ 5,718	\$ -	\$ -	\$ 5,718
	8200.116	Drill Bits & BHA	\$ 68,656	\$ -	\$ -	\$ 68,656
	8200.119	Mud-Auxiliary	\$ 31,269	\$ -	\$ -	\$ 31,269
	8200.114	Disposal	\$ 192,069	\$ -	\$ -	\$ 192,069
	8200.104	Fuel - Rig	\$ 190,965	\$ -	\$ -	\$ 190,965
	8200.143	Geological Services	\$ 10,157	\$ -	\$ -	\$ 10,157
	8200.106	Transportation	\$ 93,811	\$ -	\$ -	\$ 93,811
	8200.102	Drilling - Daywork	\$ 818,273	\$ -	\$ -	\$ 818,273
	8200.103	Drilling - Rig Move	\$ 93,673	\$ -	\$ -	\$ 93,673
	8200.149	Legal, Title, Etc	\$ 10,525	\$ -	\$ -	\$ 10,525



**AUTHORIZATION FOR EXPENDITURE**

	8200.147	Drilling Overhead	\$ 5,272	\$ -	\$ -	\$ 5,272
	8200.127	Contract Labor	\$ 27,255	\$ -	\$ -	\$ 27,255
	8200.164	Solids Control & Closed Loop	\$ 113,092	\$ -	\$ -	\$ 113,092
	8200.165	Safety/Environmental	\$ 2,545	\$ -	\$ -	\$ 2,545
	8200.137	Casing Services	\$ 72,089	\$ -	\$ -	\$ 72,089
<b>Intangible Completion</b>			\$ -	\$ 6,056,612	\$ -	\$ 6,056,612
	8300.277	Consulting Services	\$ -	\$ 5,620,118	\$ -	\$ 116,828
	8300.229	Transportation	\$ -	\$ 5,620,118	\$ -	\$ 5,263
	8300.214	Perforating & Plugs	\$ -	\$ 5,620,118	\$ -	\$ 390,293
	8300.205	Location & Roads	\$ -	\$ 5,620,118	\$ -	\$ 5,288
	8300.271	Coil Tubing	\$ -	\$ 5,620,118	\$ -	\$ 113,408
	8300.243	Analysis	\$ -	\$ 5,620,118	\$ -	\$ 9,473
	8300.273	Flowback	\$ -	\$ 5,620,118	\$ -	\$ 7,821
	8300.248	Mancamp	\$ -	\$ 5,620,118	\$ -	\$ 21,324
	8300.275	Frac - Sand	\$ -	\$ 5,620,118	\$ -	\$ 1,015,231
	8300.210	Surface Rental Equip	\$ -	\$ 5,620,118	\$ -	\$ 305,001
	8300.203	Fuel	\$ -	\$ 5,620,118	\$ -	\$ 683,704
	8300.274	Water Transfer	\$ -	\$ 5,620,118	\$ -	\$ 99,015
	8300.278	Roustabouts	\$ -	\$ 5,620,118	\$ -	\$ 1,579
	8300.270	Frac - Equipment	\$ -	\$ 5,620,118	\$ -	\$ 1,692,841
	8300.232	Disposal	\$ -	\$ 5,620,118	\$ -	\$ 19,004
	8300.212	Contract Labor	\$ -	\$ 5,620,118	\$ -	\$ 10,678
	8300.240	Pump Down Services	\$ -	\$ 5,620,118	\$ -	\$ 101,040
	8300.279	Completions Overhead	\$ -	\$ 5,620,118	\$ -	\$ 2,808
	8300.209	Chemicals	\$ -	\$ 5,620,118	\$ -	\$ 419,703
	8300.207	Fresh Water	\$ -	\$ 5,620,118	\$ -	\$ 537,798
	8300.250	Downhole Rental Equip	\$ -	\$ 5,620,118	\$ -	\$ 43,391
	8300.220	Engineering & Supervision	\$ -	\$ 5,620,118	\$ -	\$ 15,156
	8300.276	Safety & Environmental	\$ -	\$ 5,620,118	\$ -	\$ 3,473
	8360.805	Trucked Water Disposal	\$ -	\$ 341,344	\$ -	\$ 21,464
	8360.820	Well Testing / Flowback	\$ -	\$ 341,344	\$ -	\$ 60,746
	8360.825	Rental Equipment	\$ -	\$ 341,344	\$ -	\$ 190,000
	8360.850	Safety / Environmental	\$ -	\$ 341,344	\$ -	\$ 4,400
	8360.845	Wellsite Supervision	\$ -	\$ 341,344	\$ -	\$ 50,400
	8360.815	Trucking/Vacuum/Transp	\$ -	\$ 341,344	\$ -	\$ 14,334
	8320.611	Trucking/Vacuum/Transportation	\$ -	\$ 95,150	\$ -	\$ 10,000
	8320.625	Wellsite Supervision	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.612	Kill Truck	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.628	Chemicals	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.621	Rental Equipment	\$ -	\$ 95,150	\$ -	\$ 15,000
	8320.605	Fuel / Power	\$ -	\$ 95,150	\$ -	\$ 5,263
	8320.617	Contract Labor/Roustabout	\$ -	\$ 95,150	\$ -	\$ 15,887
	8320.610	Inspection & Testing	\$ -	\$ 95,150	\$ -	\$ 4,000
	8320.602	Workover Rig	\$ -	\$ 95,150	\$ -	\$ 30,000
<b>Intangible Facility</b>			\$ -	\$ -	\$ 664,900	\$ 664,900
	8350.420	Electrical Labor	\$ -	\$ -	\$ 61,900	\$ 61,900
	8350.410	Transportation/Trucking	\$ -	\$ -	\$ 24,500	\$ 24,500
	8350.418	Mechanical Labor	\$ -	\$ -	\$ 222,500	\$ 222,500
	8350.416	Supervision	\$ -	\$ -	\$ 29,600	\$ 29,600
	8350.404	Equipment Rental	\$ -	\$ -	\$ 31,000	\$ 31,000
	8350.411	Safety & Environmental	\$ -	\$ -	\$ 11,700	\$ 11,700
	8350.403	Roads/Location	\$ -	\$ -	\$ 85,100	\$ 85,100
	8350.421	Commissioning	\$ -	\$ -	\$ 3,500	\$ 3,500
	8350.419	Automation Labor	\$ -	\$ -	\$ 21,500	\$ 21,500
	8350.417	Overhead Power Labor	\$ -	\$ -	\$ 24,600	\$ 24,600
	8350.422	Flowline Labor	\$ -	\$ -	\$ 35,100	\$ 35,100
	8350.415	Engineering / Technical	\$ -	\$ -	\$ 38,700	\$ 38,700
	8350.413	Contingency	\$ -	\$ -	\$ 75,200	\$ 75,200
<b>TOTAL INTANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 3,097,328	\$ 6,056,612	\$ 664,900	\$ 9,818,840
<b>TOTAL PROJECT COSTS &gt;&gt;&gt;</b>			\$ 3,874,027	\$ 6,659,325	\$ 1,580,000	\$ 12,113,352
			<b>Drilling</b>	<b>Completion</b>	<b>Facility</b>	<b>Total</b>

This Authority for Expenditure is based on cost estimates. Billing will reflect your proportionate share of the actual invoice costs.



**AUTHORIZATION FOR EXPENDITURE**

**JOINT INTEREST APPROVAL:**

Company: \_\_\_\_\_

Working Interest: \_\_\_\_\_

Signature: \_\_\_\_\_

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

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



**AUTHORIZATION FOR EXPENDITURE**

**AFE: NM0613**

Date: January 22, 2024

Well Name: Emerald Federal Com #505H

Projected MD/TVD: 20173/9800

Target: 2BS

Spud to TD: 17.3

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100' FSL, 1320' FEL

Total Fluid (gal/ft): 3000

**PROJECT DESCRIPTION:**

The proposed AFE is for the Emerald Federal Com #505H, a 2 section Bone Springs horizontal well to be drilled in Lea County, NM. The well is a 3 string casing design consisting of the following: 17.5" surface hole drilled on Fresh to 1250' and 13.375" 54.5# J-55 BTC casing will be set and cemented in place; 12.25" hole will then be drilled on Brine to 3500' and a string of 9.625" 40# J-55 BTC casing will be set and cemented in place; 8.75" production hole will then be drilled on OBM to 20173' and a string of 5.5" 20# P-110 HC GBCD casing will be set and cemented in place. There will be 10000' of treatable lateral and the completions design will consist of +/-64 stages at 2500 lbs/ft & 3000 gals/ft. AFE includes associated costs for initial gas lift installation.

	<u>TOTAL</u>
<b>DRILLING:</b>	<b>\$3,874,027.40</b>
<b>COMPLETIONS:</b>	<b>\$6,659,324.81</b>
<b>FACILITIES:</b>	<b>\$1,580,000.00</b>
<b>COMPLETED WELL COST:</b>	<b>\$12,113,352.21</b>

**OPERATOR APPROVAL:**



**AUTHORIZATION FOR EXPENDITURE**

AFE: NM0613

Date: January 22, 2024

Well Name: Emerald Federal Com #505H

Projected MD/TVD: 20173/9800

Target: 2BS

Spud to TD: 17.3

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100' FSL, 1320' FEL

Total Fluid (gal/ft): 3000

TANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Tangible Drilling</b>			\$ 776,700	\$ -	\$ -	\$ 776,700
	8400.301	Surface Casing	\$ 64,795	\$ -	\$ -	\$ 64,795
	8400.302	Intrm 1&2 Casing	\$ 126,471	\$ -	\$ -	\$ 126,471
	8400.340	Wellhead	\$ 56,835	\$ -	\$ -	\$ 56,835
	8400.303	Production Casing	\$ 528,600	\$ -	\$ -	\$ 528,600
<b>Tangible Completion</b>			\$ -	\$ 602,713	\$ -	\$ 602,713
	8400.352	Wellhead & Equipment	\$ -	\$ 44,205	\$ -	\$ 44,205
	8325.711	Wellhead Equipment	\$ -	\$ 63,508	\$ -	\$ 63,508
	8325.702	Tubing	\$ -	\$ 90,000	\$ -	\$ 90,000
	8325.719	Contract Labor Install	\$ -	\$ 15,000	\$ -	\$ 15,000
	8325.705	ESP Equipment/Install	\$ -	\$ 40,000	\$ -	\$ 40,000
	8325.704	Downhole Artificial Lift Eqpt	\$ -	\$ 350,000	\$ -	\$ 350,000
<b>Tangible Facility</b>			\$ -	\$ -	\$ 915,100	\$ 915,100
	8355.525	Containment	\$ -	\$ -	\$ 25,700	\$ 25,700
	8355.565	Flowline	\$ -	\$ -	\$ 49,100	\$ 49,100
	8355.535	Instrumentation / Meters	\$ -	\$ -	\$ 60,500	\$ 60,500
	8355.555	Pump / Supplies	\$ -	\$ -	\$ 87,200	\$ 87,200
	8355.550	Overhead Power Material	\$ -	\$ -	\$ 53,100	\$ 53,100
	8355.510	Tanks	\$ -	\$ -	\$ 128,400	\$ 128,400
	8355.515	Flare	\$ -	\$ -	\$ 32,000	\$ 32,000
	8355.500	Vessels	\$ -	\$ -	\$ 253,200	\$ 253,200
	8355.530	Compressors	\$ -	\$ -	\$ 11,100	\$ 11,100
	8355.540	Electrical Supplies	\$ -	\$ -	\$ 68,800	\$ 68,800
	8355.520	PVF	\$ -	\$ -	\$ 146,000	\$ 146,000
<b>TOTAL TANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 776,700	\$ 602,713	\$ 915,100	\$ 2,294,513

INTANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Intangible Drilling</b>			\$ 3,097,328	\$ -	\$ -	\$ 3,097,328
	8200.117	Mud & Chemicals	\$ 176,172	\$ -	\$ -	\$ 176,172
	8200.169	Mud-Brine	\$ 25,837	\$ -	\$ -	\$ 25,837
	8200.125	Inspection	\$ 45,258	\$ -	\$ -	\$ 45,258
	8200.112	Location & Roads, Conductor	\$ 124,415	\$ -	\$ -	\$ 124,415
	8200.138	Cementing Services	\$ 199,975	\$ -	\$ -	\$ 199,975
	8200.144	Company Supervision	\$ 2,400	\$ -	\$ -	\$ 2,400
	8200.128	Drilling - Directional	\$ 246,815	\$ -	\$ -	\$ 246,815
	8200.111	Survey, Stake/Permit	\$ 5,263	\$ -	\$ -	\$ 5,263
	8200.170	Mud-Diesel	\$ 110,882	\$ -	\$ -	\$ 110,882
	8200.167	Consulting Services	\$ 246,443	\$ -	\$ -	\$ 246,443
	8200.113	Damages/Row	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.152	Well Control Ins.	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.168	Roustabout Services	\$ 2,202	\$ -	\$ -	\$ 2,202
	8200.162	Mancamp	\$ 45,996	\$ -	\$ -	\$ 45,996
	8200.124	Equipment Rental	\$ 114,515	\$ -	\$ -	\$ 114,515
	8200.115	Mud-Drill Water	\$ 5,718	\$ -	\$ -	\$ 5,718
	8200.116	Drill Bits & BHA	\$ 68,656	\$ -	\$ -	\$ 68,656
	8200.119	Mud-Auxiliary	\$ 31,269	\$ -	\$ -	\$ 31,269
	8200.114	Disposal	\$ 192,069	\$ -	\$ -	\$ 192,069
	8200.104	Fuel - Rig	\$ 190,965	\$ -	\$ -	\$ 190,965
	8200.143	Geological Services	\$ 10,157	\$ -	\$ -	\$ 10,157
	8200.106	Transportation	\$ 93,811	\$ -	\$ -	\$ 93,811
	8200.102	Drilling - Daywork	\$ 818,273	\$ -	\$ -	\$ 818,273
	8200.103	Drilling - Rig Move	\$ 93,673	\$ -	\$ -	\$ 93,673
	8200.149	Legal, Title, Etc	\$ 10,525	\$ -	\$ -	\$ 10,525



**AUTHORIZATION FOR EXPENDITURE**

	8200.147	Drilling Overhead	\$ 5,272	\$ -	\$ -	\$ 5,272
	8200.127	Contract Labor	\$ 27,255	\$ -	\$ -	\$ 27,255
	8200.164	Solids Control & Closed Loop	\$ 113,092	\$ -	\$ -	\$ 113,092
	8200.165	Safety/Environmental	\$ 2,545	\$ -	\$ -	\$ 2,545
	8200.137	Casing Services	\$ 72,089	\$ -	\$ -	\$ 72,089
<b>Intangible Completion</b>			\$ -	\$ 6,056,612	\$ -	\$ 6,056,612
	8300.277	Consulting Services	\$ -	\$ 5,620,118	\$ -	\$ 116,828
	8300.229	Transportation	\$ -	\$ 5,620,118	\$ -	\$ 5,263
	8300.214	Perforating & Plugs	\$ -	\$ 5,620,118	\$ -	\$ 390,293
	8300.205	Location & Roads	\$ -	\$ 5,620,118	\$ -	\$ 5,288
	8300.271	Coil Tubing	\$ -	\$ 5,620,118	\$ -	\$ 113,408
	8300.243	Analysis	\$ -	\$ 5,620,118	\$ -	\$ 9,473
	8300.273	Flowback	\$ -	\$ 5,620,118	\$ -	\$ 7,821
	8300.248	Mancamp	\$ -	\$ 5,620,118	\$ -	\$ 21,324
	8300.275	Frac - Sand	\$ -	\$ 5,620,118	\$ -	\$ 1,015,231
	8300.210	Surface Rental Equip	\$ -	\$ 5,620,118	\$ -	\$ 305,001
	8300.203	Fuel	\$ -	\$ 5,620,118	\$ -	\$ 683,704
	8300.274	Water Transfer	\$ -	\$ 5,620,118	\$ -	\$ 99,015
	8300.278	Roustabouts	\$ -	\$ 5,620,118	\$ -	\$ 1,579
	8300.270	Frac - Equipment	\$ -	\$ 5,620,118	\$ -	\$ 1,692,841
	8300.232	Disposal	\$ -	\$ 5,620,118	\$ -	\$ 19,004
	8300.212	Contract Labor	\$ -	\$ 5,620,118	\$ -	\$ 10,678
	8300.240	Pump Down Services	\$ -	\$ 5,620,118	\$ -	\$ 101,040
	8300.279	Completions Overhead	\$ -	\$ 5,620,118	\$ -	\$ 2,808
	8300.209	Chemicals	\$ -	\$ 5,620,118	\$ -	\$ 419,703
	8300.207	Fresh Water	\$ -	\$ 5,620,118	\$ -	\$ 537,798
	8300.250	Downhole Rental Equip	\$ -	\$ 5,620,118	\$ -	\$ 43,391
	8300.220	Engineering & Supervision	\$ -	\$ 5,620,118	\$ -	\$ 15,156
	8300.276	Safety & Environmental	\$ -	\$ 5,620,118	\$ -	\$ 3,473
	8360.805	Trucked Water Disposal	\$ -	\$ 341,344	\$ -	\$ 21,464
	8360.820	Well Testing / Flowback	\$ -	\$ 341,344	\$ -	\$ 60,746
	8360.825	Rental Equipment	\$ -	\$ 341,344	\$ -	\$ 190,000
	8360.850	Safety / Environmental	\$ -	\$ 341,344	\$ -	\$ 4,400
	8360.845	Wellsite Supervision	\$ -	\$ 341,344	\$ -	\$ 50,400
	8360.815	Trucking/Vacuum/Transp	\$ -	\$ 341,344	\$ -	\$ 14,334
	8320.611	Trucking/Vacuum/Transportation	\$ -	\$ 95,150	\$ -	\$ 10,000
	8320.625	Wellsite Supervision	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.612	Kill Truck	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.628	Chemicals	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.621	Rental Equipment	\$ -	\$ 95,150	\$ -	\$ 15,000
	8320.605	Fuel / Power	\$ -	\$ 95,150	\$ -	\$ 5,263
	8320.617	Contract Labor/Roustabout	\$ -	\$ 95,150	\$ -	\$ 15,887
	8320.610	Inspection & Testing	\$ -	\$ 95,150	\$ -	\$ 4,000
	8320.602	Workover Rig	\$ -	\$ 95,150	\$ -	\$ 30,000
<b>Intangible Facility</b>			\$ -	\$ -	\$ 664,900	\$ 664,900
	8350.420	Electrical Labor	\$ -	\$ -	\$ 61,900	\$ 61,900
	8350.410	Transportation/Trucking	\$ -	\$ -	\$ 24,500	\$ 24,500
	8350.418	Mechanical Labor	\$ -	\$ -	\$ 222,500	\$ 222,500
	8350.416	Supervision	\$ -	\$ -	\$ 29,600	\$ 29,600
	8350.404	Equipment Rental	\$ -	\$ -	\$ 31,000	\$ 31,000
	8350.411	Safety & Environmental	\$ -	\$ -	\$ 11,700	\$ 11,700
	8350.403	Roads/Location	\$ -	\$ -	\$ 85,100	\$ 85,100
	8350.421	Commissioning	\$ -	\$ -	\$ 3,500	\$ 3,500
	8350.419	Automation Labor	\$ -	\$ -	\$ 21,500	\$ 21,500
	8350.417	Overhead Power Labor	\$ -	\$ -	\$ 24,600	\$ 24,600
	8350.422	Flowline Labor	\$ -	\$ -	\$ 35,100	\$ 35,100
	8350.415	Engineering / Technical	\$ -	\$ -	\$ 38,700	\$ 38,700
	8350.413	Contingency	\$ -	\$ -	\$ 75,200	\$ 75,200
<b>TOTAL INTANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 3,097,328	\$ 6,056,612	\$ 664,900	\$ 9,818,840
<b>TOTAL PROJECT COSTS &gt;&gt;&gt;</b>			\$ 3,874,027	\$ 6,659,325	\$ 1,580,000	\$ 12,113,352
			<b>Drilling</b>	<b>Completion</b>	<b>Facility</b>	<b>Total</b>

This Authority for Expenditure is based on cost estimates. Billing will reflect your proportionate share of the actual invoice costs.



**AUTHORIZATION FOR EXPENDITURE**

**JOINT INTEREST APPROVAL:**

Company: \_\_\_\_\_

Working Interest: \_\_\_\_\_

Signature: \_\_\_\_\_

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

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



**AUTHORIZATION FOR EXPENDITURE**

**AFE: NM0614**

Date: January 22, 2024

Well Name: Emerald Federal Com #506H

Projected MD/TVD: 20173/9800

Target: 2BS

Spud to TD: 17.3

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100' FSL, 330' FEL

Total Fluid (gal/ft): 3000

**PROJECT DESCRIPTION:**

The proposed AFE is for the Emerald Federal Com #506H, a 2 section Bone Springs horizontal well to be drilled in Lea County, NM. The well is a 3 string casing design consisting of the following: 17.5" surface hole drilled on Fresh to 1250' and 13.375" 54.5# J-55 BTC casing will be set and cemented in place; 12.25" hole will then be drilled on Brine to 3500' and a string of 9.625" 40# J-55 BTC casing will be set and cemented in place; 8.75" production hole will then be drilled on OBM to 20173' and a string of 5.5" 20# P-110 HC GBCD casing will be set and cemented in place. There will be 10000' of treatable lateral and the completions design will consist of +/-64 stages at 2500 lbs/ft & 3000 gals/ft. AFE includes associated costs for initial gas lift installation.

	<u>TOTAL</u>
<b>DRILLING:</b>	<b>\$3,874,027.40</b>
<b>COMPLETIONS:</b>	<b>\$6,659,324.81</b>
<b>FACILITIES:</b>	<b>\$1,580,000.00</b>
<b>COMPLETED WELL COST:</b>	<b>\$12,113,352.21</b>

**OPERATOR APPROVAL:**



**AUTHORIZATION FOR EXPENDITURE**

AFE: NM0614

Date: January 22, 2024

Well Name: Emerald Federal Com #506H

Projected MD/TVD: 20173/9800

Target: 2BS

Spud to TD: 17.3

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100' FSL, 330' FEL

Total Fluid (gal/ft): 3000

TANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Tangible Drilling</b>			\$ 776,700	\$ -	\$ -	\$ 776,700
	8400.301	Surface Casing	\$ 64,795	\$ -	\$ -	\$ 64,795
	8400.302	Intrm 1&2 Casing	\$ 126,471	\$ -	\$ -	\$ 126,471
	8400.340	Wellhead	\$ 56,835	\$ -	\$ -	\$ 56,835
	8400.303	Production Casing	\$ 528,600	\$ -	\$ -	\$ 528,600
<b>Tangible Completion</b>			\$ -	\$ 602,713	\$ -	\$ 602,713
	8400.352	Wellhead & Equipment	\$ -	\$ 44,205	\$ -	\$ 44,205
	8325.711	Wellhead Equipment	\$ -	\$ 63,508	\$ -	\$ 63,508
	8325.702	Tubing	\$ -	\$ 90,000	\$ -	\$ 90,000
	8325.719	Contract Labor Install	\$ -	\$ 15,000	\$ -	\$ 15,000
	8325.705	ESP Equipment/Install	\$ -	\$ 40,000	\$ -	\$ 40,000
	8325.704	Downhole Artificial Lift Eqpt	\$ -	\$ 350,000	\$ -	\$ 350,000
<b>Tangible Facility</b>			\$ -	\$ -	\$ 915,100	\$ 915,100
	8355.525	Containment	\$ -	\$ -	\$ 25,700	\$ 25,700
	8355.565	Flowline	\$ -	\$ -	\$ 49,100	\$ 49,100
	8355.535	Instrumentation / Meters	\$ -	\$ -	\$ 60,500	\$ 60,500
	8355.555	Pump / Supplies	\$ -	\$ -	\$ 87,200	\$ 87,200
	8355.550	Overhead Power Material	\$ -	\$ -	\$ 53,100	\$ 53,100
	8355.510	Tanks	\$ -	\$ -	\$ 128,400	\$ 128,400
	8355.515	Flare	\$ -	\$ -	\$ 32,000	\$ 32,000
	8355.500	Vessels	\$ -	\$ -	\$ 253,200	\$ 253,200
	8355.530	Compressors	\$ -	\$ -	\$ 11,100	\$ 11,100
	8355.540	Electrical Supplies	\$ -	\$ -	\$ 68,800	\$ 68,800
	8355.520	PVF	\$ -	\$ -	\$ 146,000	\$ 146,000
<b>TOTAL TANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 776,700	\$ 602,713	\$ 915,100	\$ 2,294,513

INTANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Intangible Drilling</b>			\$ 3,097,328	\$ -	\$ -	\$ 3,097,328
	8200.117	Mud & Chemicals	\$ 176,172	\$ -	\$ -	\$ 176,172
	8200.169	Mud-Brine	\$ 25,837	\$ -	\$ -	\$ 25,837
	8200.125	Inspection	\$ 45,258	\$ -	\$ -	\$ 45,258
	8200.112	Location & Roads, Conductor	\$ 124,415	\$ -	\$ -	\$ 124,415
	8200.138	Cementing Services	\$ 199,975	\$ -	\$ -	\$ 199,975
	8200.144	Company Supervision	\$ 2,400	\$ -	\$ -	\$ 2,400
	8200.128	Drilling - Directional	\$ 246,815	\$ -	\$ -	\$ 246,815
	8200.111	Survey, Stake/Permit	\$ 5,263	\$ -	\$ -	\$ 5,263
	8200.170	Mud-Diesel	\$ 110,882	\$ -	\$ -	\$ 110,882
	8200.167	Consulting Services	\$ 246,443	\$ -	\$ -	\$ 246,443
	8200.113	Damages/Row	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.152	Well Control Ins.	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.168	Roustabout Services	\$ 2,202	\$ -	\$ -	\$ 2,202
	8200.162	Mancamp	\$ 45,996	\$ -	\$ -	\$ 45,996
	8200.124	Equipment Rental	\$ 114,515	\$ -	\$ -	\$ 114,515
	8200.115	Mud-Drill Water	\$ 5,718	\$ -	\$ -	\$ 5,718
	8200.116	Drill Bits & BHA	\$ 68,656	\$ -	\$ -	\$ 68,656
	8200.119	Mud-Auxiliary	\$ 31,269	\$ -	\$ -	\$ 31,269
	8200.114	Disposal	\$ 192,069	\$ -	\$ -	\$ 192,069
	8200.104	Fuel - Rig	\$ 190,965	\$ -	\$ -	\$ 190,965
	8200.143	Geological Services	\$ 10,157	\$ -	\$ -	\$ 10,157
	8200.106	Transportation	\$ 93,811	\$ -	\$ -	\$ 93,811
	8200.102	Drilling - Daywork	\$ 818,273	\$ -	\$ -	\$ 818,273
	8200.103	Drilling - Rig Move	\$ 93,673	\$ -	\$ -	\$ 93,673
	8200.149	Legal, Title, Etc	\$ 10,525	\$ -	\$ -	\$ 10,525



**AUTHORIZATION FOR EXPENDITURE**

	8200.147	Drilling Overhead	\$ 5,272	\$ -	\$ -	\$ 5,272
	8200.127	Contract Labor	\$ 27,255	\$ -	\$ -	\$ 27,255
	8200.164	Solids Control & Closed Loop	\$ 113,092	\$ -	\$ -	\$ 113,092
	8200.165	Safety/Environmental	\$ 2,545	\$ -	\$ -	\$ 2,545
	8200.137	Casing Services	\$ 72,089	\$ -	\$ -	\$ 72,089
<b>Intangible Completion</b>			\$ -	\$ 6,056,612	\$ -	\$ 6,056,612
	8300.277	Consulting Services	\$ -	\$ 5,620,118	\$ -	\$ 116,828
	8300.229	Transportation	\$ -	\$ 5,620,118	\$ -	\$ 5,263
	8300.214	Perforating & Plugs	\$ -	\$ 5,620,118	\$ -	\$ 390,293
	8300.205	Location & Roads	\$ -	\$ 5,620,118	\$ -	\$ 5,288
	8300.271	Coil Tubing	\$ -	\$ 5,620,118	\$ -	\$ 113,408
	8300.243	Analysis	\$ -	\$ 5,620,118	\$ -	\$ 9,473
	8300.273	Flowback	\$ -	\$ 5,620,118	\$ -	\$ 7,821
	8300.248	Mancamp	\$ -	\$ 5,620,118	\$ -	\$ 21,324
	8300.275	Frac - Sand	\$ -	\$ 5,620,118	\$ -	\$ 1,015,231
	8300.210	Surface Rental Equip	\$ -	\$ 5,620,118	\$ -	\$ 305,001
	8300.203	Fuel	\$ -	\$ 5,620,118	\$ -	\$ 683,704
	8300.274	Water Transfer	\$ -	\$ 5,620,118	\$ -	\$ 99,015
	8300.278	Roustabouts	\$ -	\$ 5,620,118	\$ -	\$ 1,579
	8300.270	Frac - Equipment	\$ -	\$ 5,620,118	\$ -	\$ 1,692,841
	8300.232	Disposal	\$ -	\$ 5,620,118	\$ -	\$ 19,004
	8300.212	Contract Labor	\$ -	\$ 5,620,118	\$ -	\$ 10,678
	8300.240	Pump Down Services	\$ -	\$ 5,620,118	\$ -	\$ 101,040
	8300.279	Completions Overhead	\$ -	\$ 5,620,118	\$ -	\$ 2,808
	8300.209	Chemicals	\$ -	\$ 5,620,118	\$ -	\$ 419,703
	8300.207	Fresh Water	\$ -	\$ 5,620,118	\$ -	\$ 537,798
	8300.250	Downhole Rental Equip	\$ -	\$ 5,620,118	\$ -	\$ 43,391
	8300.220	Engineering & Supervision	\$ -	\$ 5,620,118	\$ -	\$ 15,156
	8300.276	Safety & Environmental	\$ -	\$ 5,620,118	\$ -	\$ 3,473
	8360.805	Trucked Water Disposal	\$ -	\$ 341,344	\$ -	\$ 21,464
	8360.820	Well Testing / Flowback	\$ -	\$ 341,344	\$ -	\$ 60,746
	8360.825	Rental Equipment	\$ -	\$ 341,344	\$ -	\$ 190,000
	8360.850	Safety / Environmental	\$ -	\$ 341,344	\$ -	\$ 4,400
	8360.845	Wellsite Supervision	\$ -	\$ 341,344	\$ -	\$ 50,400
	8360.815	Trucking/Vacuum/Transp	\$ -	\$ 341,344	\$ -	\$ 14,334
	8320.611	Trucking/Vacuum/Transportation	\$ -	\$ 95,150	\$ -	\$ 10,000
	8320.625	Wellsite Supervision	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.612	Kill Truck	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.628	Chemicals	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.621	Rental Equipment	\$ -	\$ 95,150	\$ -	\$ 15,000
	8320.605	Fuel / Power	\$ -	\$ 95,150	\$ -	\$ 5,263
	8320.617	Contract Labor/Roustabout	\$ -	\$ 95,150	\$ -	\$ 15,887
	8320.610	Inspection & Testing	\$ -	\$ 95,150	\$ -	\$ 4,000
	8320.602	Workover Rig	\$ -	\$ 95,150	\$ -	\$ 30,000
<b>Intangible Facility</b>			\$ -	\$ -	\$ 664,900	\$ 664,900
	8350.420	Electrical Labor	\$ -	\$ -	\$ 61,900	\$ 61,900
	8350.410	Transportation/Trucking	\$ -	\$ -	\$ 24,500	\$ 24,500
	8350.418	Mechanical Labor	\$ -	\$ -	\$ 222,500	\$ 222,500
	8350.416	Supervision	\$ -	\$ -	\$ 29,600	\$ 29,600
	8350.404	Equipment Rental	\$ -	\$ -	\$ 31,000	\$ 31,000
	8350.411	Safety & Environmental	\$ -	\$ -	\$ 11,700	\$ 11,700
	8350.403	Roads/Location	\$ -	\$ -	\$ 85,100	\$ 85,100
	8350.421	Commissioning	\$ -	\$ -	\$ 3,500	\$ 3,500
	8350.419	Automation Labor	\$ -	\$ -	\$ 21,500	\$ 21,500
	8350.417	Overhead Power Labor	\$ -	\$ -	\$ 24,600	\$ 24,600
	8350.422	Flowline Labor	\$ -	\$ -	\$ 35,100	\$ 35,100
	8350.415	Engineering / Technical	\$ -	\$ -	\$ 38,700	\$ 38,700
	8350.413	Contingency	\$ -	\$ -	\$ 75,200	\$ 75,200
<b>TOTAL INTANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 3,097,328	\$ 6,056,612	\$ 664,900	\$ 9,818,840
<b>TOTAL PROJECT COSTS &gt;&gt;&gt;</b>			\$ 3,874,027	\$ 6,659,325	\$ 1,580,000	\$ 12,113,352
			<b>Drilling</b>	<b>Completion</b>	<b>Facility</b>	<b>Total</b>

This Authority for Expenditure is based on cost estimates. Billing will reflect your proportionate share of the actual invoice costs.



**AUTHORIZATION FOR EXPENDITURE**

**JOINT INTEREST APPROVAL:**

Company: \_\_\_\_\_

Working Interest: \_\_\_\_\_

Signature: \_\_\_\_\_

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

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



**AUTHORIZATION FOR EXPENDITURE**

**AFE: NM0605**

Date: January 22, 2024

Well Name: Emerald Federal Com #513H

Projected MD/TVD: 20173/9800

Target: 2BS

Spud to TD: 17.3

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100' FSL, 2178' FWL

Total Fluid (gal/ft): 3000

**PROJECT DESCRIPTION:**

The proposed AFE is for the Emerald Federal Com #513H, a 2 section Bone Springs horizontal well to be drilled in Lea County, NM. The well is a 3 string casing design consisting of the following: 17.5" surface hole drilled on Fresh to 1250' and 13.375" 54.5# J-55 BTC casing will be set and cemented in place; 12.25" hole will then be drilled on Brine to 3500' and a string of 9.625" 40# J-55 BTC casing will be set and cemented in place; 8.75" production hole will then be drilled on OBM to 20173' and a string of 5.5" 20# P-110 HC GBCD casing will be set and cemented in place. There will be 10000' of treatable lateral and the completions design will consist of +/-64 stages at 2500 lbs/ft & 3000 gals/ft. AFE includes associated costs for initial gas lift installation.

	<u>TOTAL</u>
<b>DRILLING:</b>	<b>\$3,874,027.40</b>
<b>COMPLETIONS:</b>	<b>\$6,659,324.81</b>
<b>FACILITIES:</b>	<b>\$1,580,000.00</b>
<b>COMPLETED WELL COST:</b>	<b>\$12,113,352.21</b>

**OPERATOR APPROVAL:**



**AUTHORIZATION FOR EXPENDITURE**

AFE: NM0605

Date: January 22, 2024

Well Name: Emerald Federal Com #513H

Projected MD/TVD: 20173/9800

Target: 2BS

Spud to TD: 17.3

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100' FSL, 2178' FWL

Total Fluid (gal/ft): 3000

TANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Tangible Drilling</b>			\$ 776,700	\$ -	\$ -	\$ 776,700
	8400.301	Surface Casing	\$ 64,795	\$ -	\$ -	\$ 64,795
	8400.302	Intrm 1&2 Casing	\$ 126,471	\$ -	\$ -	\$ 126,471
	8400.340	Wellhead	\$ 56,835	\$ -	\$ -	\$ 56,835
	8400.303	Production Casing	\$ 528,600	\$ -	\$ -	\$ 528,600
<b>Tangible Completion</b>			\$ -	\$ 602,713	\$ -	\$ 602,713
	8400.352	Wellhead & Equipment	\$ -	\$ 44,205	\$ -	\$ 44,205
	8325.711	Wellhead Equipment	\$ -	\$ 63,508	\$ -	\$ 63,508
	8325.702	Tubing	\$ -	\$ 90,000	\$ -	\$ 90,000
	8325.719	Contract Labor Install	\$ -	\$ 15,000	\$ -	\$ 15,000
	8325.705	ESP Equipment/Install	\$ -	\$ 40,000	\$ -	\$ 40,000
	8325.704	Downhole Artificial Lift Eqpt	\$ -	\$ 350,000	\$ -	\$ 350,000
<b>Tangible Facility</b>			\$ -	\$ -	\$ 915,100	\$ 915,100
	8355.525	Containment	\$ -	\$ -	\$ 25,700	\$ 25,700
	8355.565	Flowline	\$ -	\$ -	\$ 49,100	\$ 49,100
	8355.535	Instrumentation / Meters	\$ -	\$ -	\$ 60,500	\$ 60,500
	8355.555	Pump / Supplies	\$ -	\$ -	\$ 87,200	\$ 87,200
	8355.550	Overhead Power Material	\$ -	\$ -	\$ 53,100	\$ 53,100
	8355.510	Tanks	\$ -	\$ -	\$ 128,400	\$ 128,400
	8355.515	Flare	\$ -	\$ -	\$ 32,000	\$ 32,000
	8355.500	Vessels	\$ -	\$ -	\$ 253,200	\$ 253,200
	8355.530	Compressors	\$ -	\$ -	\$ 11,100	\$ 11,100
	8355.540	Electrical Supplies	\$ -	\$ -	\$ 68,800	\$ 68,800
	8355.520	PVF	\$ -	\$ -	\$ 146,000	\$ 146,000
<b>TOTAL TANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 776,700	\$ 602,713	\$ 915,100	\$ 2,294,513

INTANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Intangible Drilling</b>			\$ 3,097,328	\$ -	\$ -	\$ 3,097,328
	8200.117	Mud & Chemicals	\$ 176,172	\$ -	\$ -	\$ 176,172
	8200.169	Mud-Brine	\$ 25,837	\$ -	\$ -	\$ 25,837
	8200.125	Inspection	\$ 45,258	\$ -	\$ -	\$ 45,258
	8200.112	Location & Roads, Conductor	\$ 124,415	\$ -	\$ -	\$ 124,415
	8200.138	Cementing Services	\$ 199,975	\$ -	\$ -	\$ 199,975
	8200.144	Company Supervision	\$ 2,400	\$ -	\$ -	\$ 2,400
	8200.128	Drilling - Directional	\$ 246,815	\$ -	\$ -	\$ 246,815
	8200.111	Survey, Stake/Permit	\$ 5,263	\$ -	\$ -	\$ 5,263
	8200.170	Mud-Diesel	\$ 110,882	\$ -	\$ -	\$ 110,882
	8200.167	Consulting Services	\$ 246,443	\$ -	\$ -	\$ 246,443
	8200.113	Damages/Row	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.152	Well Control Ins.	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.168	Roustabout Services	\$ 2,202	\$ -	\$ -	\$ 2,202
	8200.162	Mancamp	\$ 45,996	\$ -	\$ -	\$ 45,996
	8200.124	Equipment Rental	\$ 114,515	\$ -	\$ -	\$ 114,515
	8200.115	Mud-Drill Water	\$ 5,718	\$ -	\$ -	\$ 5,718
	8200.116	Drill Bits & BHA	\$ 68,656	\$ -	\$ -	\$ 68,656
	8200.119	Mud-Auxiliary	\$ 31,269	\$ -	\$ -	\$ 31,269
	8200.114	Disposal	\$ 192,069	\$ -	\$ -	\$ 192,069
	8200.104	Fuel - Rig	\$ 190,965	\$ -	\$ -	\$ 190,965
	8200.143	Geological Services	\$ 10,157	\$ -	\$ -	\$ 10,157
	8200.106	Transportation	\$ 93,811	\$ -	\$ -	\$ 93,811
	8200.102	Drilling - Daywork	\$ 818,273	\$ -	\$ -	\$ 818,273
	8200.103	Drilling - Rig Move	\$ 93,673	\$ -	\$ -	\$ 93,673
	8200.149	Legal, Title, Etc	\$ 10,525	\$ -	\$ -	\$ 10,525



**AUTHORIZATION FOR EXPENDITURE**

	8200.147	Drilling Overhead	\$ 5,272	\$ -	\$ -	\$ 5,272
	8200.127	Contract Labor	\$ 27,255	\$ -	\$ -	\$ 27,255
	8200.164	Solids Control & Closed Loop	\$ 113,092	\$ -	\$ -	\$ 113,092
	8200.165	Safety/Environmental	\$ 2,545	\$ -	\$ -	\$ 2,545
	8200.137	Casing Services	\$ 72,089	\$ -	\$ -	\$ 72,089
<b>Intangible Completion</b>			\$ -	\$ 6,056,612	\$ -	\$ 6,056,612
	8300.277	Consulting Services	\$ -	\$ 5,620,118	\$ -	\$ 116,828
	8300.229	Transportation	\$ -	\$ 5,620,118	\$ -	\$ 5,263
	8300.214	Perforating & Plugs	\$ -	\$ 5,620,118	\$ -	\$ 390,293
	8300.205	Location & Roads	\$ -	\$ 5,620,118	\$ -	\$ 5,288
	8300.271	Coil Tubing	\$ -	\$ 5,620,118	\$ -	\$ 113,408
	8300.243	Analysis	\$ -	\$ 5,620,118	\$ -	\$ 9,473
	8300.273	Flowback	\$ -	\$ 5,620,118	\$ -	\$ 7,821
	8300.248	Mancamp	\$ -	\$ 5,620,118	\$ -	\$ 21,324
	8300.275	Frac - Sand	\$ -	\$ 5,620,118	\$ -	\$ 1,015,231
	8300.210	Surface Rental Equip	\$ -	\$ 5,620,118	\$ -	\$ 305,001
	8300.203	Fuel	\$ -	\$ 5,620,118	\$ -	\$ 683,704
	8300.274	Water Transfer	\$ -	\$ 5,620,118	\$ -	\$ 99,015
	8300.278	Roustabouts	\$ -	\$ 5,620,118	\$ -	\$ 1,579
	8300.270	Frac - Equipment	\$ -	\$ 5,620,118	\$ -	\$ 1,692,841
	8300.232	Disposal	\$ -	\$ 5,620,118	\$ -	\$ 19,004
	8300.212	Contract Labor	\$ -	\$ 5,620,118	\$ -	\$ 10,678
	8300.240	Pump Down Services	\$ -	\$ 5,620,118	\$ -	\$ 101,040
	8300.279	Completions Overhead	\$ -	\$ 5,620,118	\$ -	\$ 2,808
	8300.209	Chemicals	\$ -	\$ 5,620,118	\$ -	\$ 419,703
	8300.207	Fresh Water	\$ -	\$ 5,620,118	\$ -	\$ 537,798
	8300.250	Downhole Rental Equip	\$ -	\$ 5,620,118	\$ -	\$ 43,391
	8300.220	Engineering & Supervision	\$ -	\$ 5,620,118	\$ -	\$ 15,156
	8300.276	Safety & Environmental	\$ -	\$ 5,620,118	\$ -	\$ 3,473
	8360.805	Trucked Water Disposal	\$ -	\$ 341,344	\$ -	\$ 21,464
	8360.820	Well Testing / Flowback	\$ -	\$ 341,344	\$ -	\$ 60,746
	8360.825	Rental Equipment	\$ -	\$ 341,344	\$ -	\$ 190,000
	8360.850	Safety / Environmental	\$ -	\$ 341,344	\$ -	\$ 4,400
	8360.845	Wellsite Supervision	\$ -	\$ 341,344	\$ -	\$ 50,400
	8360.815	Trucking/Vacuum/Transp	\$ -	\$ 341,344	\$ -	\$ 14,334
	8320.611	Trucking/Vacuum/Transportation	\$ -	\$ 95,150	\$ -	\$ 10,000
	8320.625	Wellsite Supervision	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.612	Kill Truck	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.628	Chemicals	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.621	Rental Equipment	\$ -	\$ 95,150	\$ -	\$ 15,000
	8320.605	Fuel / Power	\$ -	\$ 95,150	\$ -	\$ 5,263
	8320.617	Contract Labor/Roustabout	\$ -	\$ 95,150	\$ -	\$ 15,887
	8320.610	Inspection & Testing	\$ -	\$ 95,150	\$ -	\$ 4,000
	8320.602	Workover Rig	\$ -	\$ 95,150	\$ -	\$ 30,000
<b>Intangible Facility</b>			\$ -	\$ -	\$ 664,900	\$ 664,900
	8350.420	Electrical Labor	\$ -	\$ -	\$ 61,900	\$ 61,900
	8350.410	Transportation/Trucking	\$ -	\$ -	\$ 24,500	\$ 24,500
	8350.418	Mechanical Labor	\$ -	\$ -	\$ 222,500	\$ 222,500
	8350.416	Supervision	\$ -	\$ -	\$ 29,600	\$ 29,600
	8350.404	Equipment Rental	\$ -	\$ -	\$ 31,000	\$ 31,000
	8350.411	Safety & Environmental	\$ -	\$ -	\$ 11,700	\$ 11,700
	8350.403	Roads/Location	\$ -	\$ -	\$ 85,100	\$ 85,100
	8350.421	Commissioning	\$ -	\$ -	\$ 3,500	\$ 3,500
	8350.419	Automation Labor	\$ -	\$ -	\$ 21,500	\$ 21,500
	8350.417	Overhead Power Labor	\$ -	\$ -	\$ 24,600	\$ 24,600
	8350.422	Flowline Labor	\$ -	\$ -	\$ 35,100	\$ 35,100
	8350.415	Engineering / Technical	\$ -	\$ -	\$ 38,700	\$ 38,700
	8350.413	Contingency	\$ -	\$ -	\$ 75,200	\$ 75,200
<b>TOTAL INTANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 3,097,328	\$ 6,056,612	\$ 664,900	\$ 9,818,840
<b>TOTAL PROJECT COSTS &gt;&gt;&gt;</b>			\$ 3,874,027	\$ 6,659,325	\$ 1,580,000	\$ 12,113,352
			<b>Drilling</b>	<b>Completion</b>	<b>Facility</b>	<b>Total</b>

This Authority for Expenditure is based on cost estimates. Billing will reflect your proportionate share of the actual invoice costs.



**AUTHORIZATION FOR EXPENDITURE**

**JOINT INTEREST APPROVAL:**

Company: \_\_\_\_\_

Working Interest: \_\_\_\_\_

Signature: \_\_\_\_\_

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

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



**AUTHORIZATION FOR EXPENDITURE**

**AFE: NM0612**

Date: January 22, 2024

Well Name: Emerald Federal Com #514H

Projected MD/TVD: 20173/9800

Target: 2BS

Spud to TD: 17.3

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100' FSL, 2178' FEL

Total Fluid (gal/ft): 3000

**PROJECT DESCRIPTION:**

The proposed AFE is for the Emerald Federal Com #514H, a 2 section Bone Springs horizontal well to be drilled in Lea County, NM. The well is a 3 string casing design consisting of the following: 17.5" surface hole drilled on Fresh to 1250' and 13.375" 54.5# J-55 BTC casing will be set and cemented in place; 12.25" hole will then be drilled on Brine to 3500' and a string of 9.625" 40# J-55 BTC casing will be set and cemented in place; 8.75" production hole will then be drilled on OBM to 20173' and a string of 5.5" 20# P-110 HC GBCD casing will be set and cemented in place. There will be 10000' of treatable lateral and the completions design will consist of +/-64 stages at 2500 lbs/ft & 3000 gals/ft. AFE includes associated costs for initial gas lift installation.

	<u>TOTAL</u>
<b>DRILLING:</b>	<b>\$3,874,027.40</b>
<b>COMPLETIONS:</b>	<b>\$6,659,324.81</b>
<b>FACILITIES:</b>	<b>\$1,580,000.00</b>
<b>COMPLETED WELL COST:</b>	<b>\$12,113,352.21</b>

**OPERATOR APPROVAL:**



**AUTHORIZATION FOR EXPENDITURE**

AFE: NM0612

Date: January 22, 2024

Well Name: Emerald Federal Com #514H

Projected MD/TVD: 20173/9800

Target: 2BS

Spud to TD: 17.3

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T18S-R33E 100' FSL, 2178' FEL

Total Fluid (gal/ft): 3000

TANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Tangible Drilling</b>			\$ 776,700	\$ -	\$ -	\$ 776,700
	8400.301	Surface Casing	\$ 64,795	\$ -	\$ -	\$ 64,795
	8400.302	Intrm 1&2 Casing	\$ 126,471	\$ -	\$ -	\$ 126,471
	8400.340	Wellhead	\$ 56,835	\$ -	\$ -	\$ 56,835
	8400.303	Production Casing	\$ 528,600	\$ -	\$ -	\$ 528,600
<b>Tangible Completion</b>			\$ -	\$ 602,713	\$ -	\$ 602,713
	8400.352	Wellhead & Equipment	\$ -	\$ 44,205	\$ -	\$ 44,205
	8325.711	Wellhead Equipment	\$ -	\$ 63,508	\$ -	\$ 63,508
	8325.702	Tubing	\$ -	\$ 90,000	\$ -	\$ 90,000
	8325.719	Contract Labor Install	\$ -	\$ 15,000	\$ -	\$ 15,000
	8325.705	ESP Equipment/Install	\$ -	\$ 40,000	\$ -	\$ 40,000
	8325.704	Downhole Artificial Lift Eqpt	\$ -	\$ 350,000	\$ -	\$ 350,000
<b>Tangible Facility</b>			\$ -	\$ -	\$ 915,100	\$ 915,100
	8355.525	Containment	\$ -	\$ -	\$ 25,700	\$ 25,700
	8355.565	Flowline	\$ -	\$ -	\$ 49,100	\$ 49,100
	8355.535	Instrumentation / Meters	\$ -	\$ -	\$ 60,500	\$ 60,500
	8355.555	Pump / Supplies	\$ -	\$ -	\$ 87,200	\$ 87,200
	8355.550	Overhead Power Material	\$ -	\$ -	\$ 53,100	\$ 53,100
	8355.510	Tanks	\$ -	\$ -	\$ 128,400	\$ 128,400
	8355.515	Flare	\$ -	\$ -	\$ 32,000	\$ 32,000
	8355.500	Vessels	\$ -	\$ -	\$ 253,200	\$ 253,200
	8355.530	Compressors	\$ -	\$ -	\$ 11,100	\$ 11,100
	8355.540	Electrical Supplies	\$ -	\$ -	\$ 68,800	\$ 68,800
	8355.520	PVF	\$ -	\$ -	\$ 146,000	\$ 146,000
<b>TOTAL TANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 776,700	\$ 602,713	\$ 915,100	\$ 2,294,513

INTANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Intangible Drilling</b>			\$ 3,097,328	\$ -	\$ -	\$ 3,097,328
	8200.117	Mud & Chemicals	\$ 176,172	\$ -	\$ -	\$ 176,172
	8200.169	Mud-Brine	\$ 25,837	\$ -	\$ -	\$ 25,837
	8200.125	Inspection	\$ 45,258	\$ -	\$ -	\$ 45,258
	8200.112	Location & Roads, Conductor	\$ 124,415	\$ -	\$ -	\$ 124,415
	8200.138	Cementing Services	\$ 199,975	\$ -	\$ -	\$ 199,975
	8200.144	Company Supervision	\$ 2,400	\$ -	\$ -	\$ 2,400
	8200.128	Drilling - Directional	\$ 246,815	\$ -	\$ -	\$ 246,815
	8200.111	Survey, Stake/Permit	\$ 5,263	\$ -	\$ -	\$ 5,263
	8200.170	Mud-Diesel	\$ 110,882	\$ -	\$ -	\$ 110,882
	8200.167	Consulting Services	\$ 246,443	\$ -	\$ -	\$ 246,443
	8200.113	Damages/Row	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.152	Well Control Ins.	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.168	Roustabout Services	\$ 2,202	\$ -	\$ -	\$ 2,202
	8200.162	Mancamp	\$ 45,996	\$ -	\$ -	\$ 45,996
	8200.124	Equipment Rental	\$ 114,515	\$ -	\$ -	\$ 114,515
	8200.115	Mud-Drill Water	\$ 5,718	\$ -	\$ -	\$ 5,718
	8200.116	Drill Bits & BHA	\$ 68,656	\$ -	\$ -	\$ 68,656
	8200.119	Mud-Auxiliary	\$ 31,269	\$ -	\$ -	\$ 31,269
	8200.114	Disposal	\$ 192,069	\$ -	\$ -	\$ 192,069
	8200.104	Fuel - Rig	\$ 190,965	\$ -	\$ -	\$ 190,965
	8200.143	Geological Services	\$ 10,157	\$ -	\$ -	\$ 10,157
	8200.106	Transportation	\$ 93,811	\$ -	\$ -	\$ 93,811
	8200.102	Drilling - Daywork	\$ 818,273	\$ -	\$ -	\$ 818,273
	8200.103	Drilling - Rig Move	\$ 93,673	\$ -	\$ -	\$ 93,673
	8200.149	Legal, Title, Etc	\$ 10,525	\$ -	\$ -	\$ 10,525



**AUTHORIZATION FOR EXPENDITURE**

	8200.147	Drilling Overhead	\$ 5,272	\$ -	\$ -	\$ 5,272
	8200.127	Contract Labor	\$ 27,255	\$ -	\$ -	\$ 27,255
	8200.164	Solids Control & Closed Loop	\$ 113,092	\$ -	\$ -	\$ 113,092
	8200.165	Safety/Environmental	\$ 2,545	\$ -	\$ -	\$ 2,545
	8200.137	Casing Services	\$ 72,089	\$ -	\$ -	\$ 72,089
<b>Intangible Completion</b>			\$ -	\$ 6,056,612	\$ -	\$ 6,056,612
	8300.277	Consulting Services	\$ -	\$ 5,620,118	\$ -	\$ 116,828
	8300.229	Transportation	\$ -	\$ 5,620,118	\$ -	\$ 5,263
	8300.214	Perforating & Plugs	\$ -	\$ 5,620,118	\$ -	\$ 390,293
	8300.205	Location & Roads	\$ -	\$ 5,620,118	\$ -	\$ 5,288
	8300.271	Coil Tubing	\$ -	\$ 5,620,118	\$ -	\$ 113,408
	8300.243	Analysis	\$ -	\$ 5,620,118	\$ -	\$ 9,473
	8300.273	Flowback	\$ -	\$ 5,620,118	\$ -	\$ 7,821
	8300.248	Mancamp	\$ -	\$ 5,620,118	\$ -	\$ 21,324
	8300.275	Frac - Sand	\$ -	\$ 5,620,118	\$ -	\$ 1,015,231
	8300.210	Surface Rental Equip	\$ -	\$ 5,620,118	\$ -	\$ 305,001
	8300.203	Fuel	\$ -	\$ 5,620,118	\$ -	\$ 683,704
	8300.274	Water Transfer	\$ -	\$ 5,620,118	\$ -	\$ 99,015
	8300.278	Roustabouts	\$ -	\$ 5,620,118	\$ -	\$ 1,579
	8300.270	Frac - Equipment	\$ -	\$ 5,620,118	\$ -	\$ 1,692,841
	8300.232	Disposal	\$ -	\$ 5,620,118	\$ -	\$ 19,004
	8300.212	Contract Labor	\$ -	\$ 5,620,118	\$ -	\$ 10,678
	8300.240	Pump Down Services	\$ -	\$ 5,620,118	\$ -	\$ 101,040
	8300.279	Completions Overhead	\$ -	\$ 5,620,118	\$ -	\$ 2,808
	8300.209	Chemicals	\$ -	\$ 5,620,118	\$ -	\$ 419,703
	8300.207	Fresh Water	\$ -	\$ 5,620,118	\$ -	\$ 537,798
	8300.250	Downhole Rental Equip	\$ -	\$ 5,620,118	\$ -	\$ 43,391
	8300.220	Engineering & Supervision	\$ -	\$ 5,620,118	\$ -	\$ 15,156
	8300.276	Safety & Environmental	\$ -	\$ 5,620,118	\$ -	\$ 3,473
	8360.805	Trucked Water Disposal	\$ -	\$ 341,344	\$ -	\$ 21,464
	8360.820	Well Testing / Flowback	\$ -	\$ 341,344	\$ -	\$ 60,746
	8360.825	Rental Equipment	\$ -	\$ 341,344	\$ -	\$ 190,000
	8360.850	Safety / Environmental	\$ -	\$ 341,344	\$ -	\$ 4,400
	8360.845	Wellsite Supervision	\$ -	\$ 341,344	\$ -	\$ 50,400
	8360.815	Trucking/Vacuum/Transp	\$ -	\$ 341,344	\$ -	\$ 14,334
	8320.611	Trucking/Vacuum/Transportation	\$ -	\$ 95,150	\$ -	\$ 10,000
	8320.625	Wellsite Supervision	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.612	Kill Truck	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.628	Chemicals	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.621	Rental Equipment	\$ -	\$ 95,150	\$ -	\$ 15,000
	8320.605	Fuel / Power	\$ -	\$ 95,150	\$ -	\$ 5,263
	8320.617	Contract Labor/Roustabout	\$ -	\$ 95,150	\$ -	\$ 15,887
	8320.610	Inspection & Testing	\$ -	\$ 95,150	\$ -	\$ 4,000
	8320.602	Workover Rig	\$ -	\$ 95,150	\$ -	\$ 30,000
<b>Intangible Facility</b>			\$ -	\$ -	\$ 664,900	\$ 664,900
	8350.420	Electrical Labor	\$ -	\$ -	\$ 61,900	\$ 61,900
	8350.410	Transportation/Trucking	\$ -	\$ -	\$ 24,500	\$ 24,500
	8350.418	Mechanical Labor	\$ -	\$ -	\$ 222,500	\$ 222,500
	8350.416	Supervision	\$ -	\$ -	\$ 29,600	\$ 29,600
	8350.404	Equipment Rental	\$ -	\$ -	\$ 31,000	\$ 31,000
	8350.411	Safety & Environmental	\$ -	\$ -	\$ 11,700	\$ 11,700
	8350.403	Roads/Location	\$ -	\$ -	\$ 85,100	\$ 85,100
	8350.421	Commissioning	\$ -	\$ -	\$ 3,500	\$ 3,500
	8350.419	Automation Labor	\$ -	\$ -	\$ 21,500	\$ 21,500
	8350.417	Overhead Power Labor	\$ -	\$ -	\$ 24,600	\$ 24,600
	8350.422	Flowline Labor	\$ -	\$ -	\$ 35,100	\$ 35,100
	8350.415	Engineering / Technical	\$ -	\$ -	\$ 38,700	\$ 38,700
	8350.413	Contingency	\$ -	\$ -	\$ 75,200	\$ 75,200
<b>TOTAL INTANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 3,097,328	\$ 6,056,612	\$ 664,900	\$ 9,818,840
<b>TOTAL PROJECT COSTS &gt;&gt;&gt;</b>			\$ 3,874,027	\$ 6,659,325	\$ 1,580,000	\$ 12,113,352
			<b>Drilling</b>	<b>Completion</b>	<b>Facility</b>	<b>Total</b>

This Authority for Expenditure is based on cost estimates. Billing will reflect your proportionate share of the actual invoice costs.



**AUTHORIZATION FOR EXPENDITURE**

**JOINT INTEREST APPROVAL:**

Company: \_\_\_\_\_

Working Interest: \_\_\_\_\_

Signature: \_\_\_\_\_

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

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



**AUTHORIZATION FOR EXPENDITURE**

**AFE: NM0606**

Date: January 22, 2024

Well Name: Emerald Federal Com #601H

Projected MD/TVD: 20773/10500

Target: 3BS

Spud to TD: 17.6

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T19S-R33E 100' FSL, 330' FWL

Total Fluid (gal/ft): 3000

**PROJECT DESCRIPTION:**

The proposed AFE is for the Emerald Federal Com #601H, a 2 section Bone Springs horizontal well to be drilled in Lea County, NM. The well is a 3 string casing design consisting of the following: 17.5" surface hole drilled on Fresh to 1250' and 13.375" 54.5# J-55 BTC casing will be set and cemented in place; 12.25" hole will then be drilled on Brine to 3500' and a string of 9.625" 40# J-55 BTC casing will be set and cemented in place; 8.75" production hole will then be drilled on OBM to 20773' and a string of 5.5" 20# P-110 HC GBCD casing will be set and cemented in place. There will be 10000' of treatable lateral and the completions design will consist of +/-64 stages at 2500 lbs/ft & 3000 gals/ft. AFE includes associated costs for initial gas lift installation.

	<u>TOTAL</u>
<b>DRILLING:</b>	<b>\$3,915,866.85</b>
<b>COMPLETIONS:</b>	<b>\$6,659,640.84</b>
<b>FACILITIES:</b>	<b>\$1,580,000.00</b>
<b>COMPLETED WELL COST:</b>	<b>\$12,155,507.69</b>

**OPERATOR APPROVAL:**



**AUTHORIZATION FOR EXPENDITURE**

AFE: NM0606

Date: January 22, 2024

Well Name: Emerald Federal Com #601H

Projected MD/TVD: 20773/10500

Target: 3BS

Spud to TD: 17.6

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T19S-R33E 100' FSL, 330' FWL

Total Fluid (gal/ft): 3000

TANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Tangible Drilling</b>			\$ 789,620	\$ -	\$ -	\$ 789,620
	8400.340	Wellhead	\$ 56,835	\$ -	\$ -	\$ 56,835
	8400.302	Intrm 1&2 Casing	\$ 126,471	\$ -	\$ -	\$ 126,471
	8400.301	Surface Casing	\$ 64,795	\$ -	\$ -	\$ 64,795
	8400.303	Production Casing	\$ 541,519	\$ -	\$ -	\$ 541,519
<b>Tangible Completion</b>			\$ -	\$ 602,713	\$ -	\$ 602,713
	8400.352	Wellhead & Equipment	\$ -	\$ 44,205	\$ -	\$ 44,205
	8325.719	Contract Labor Install	\$ -	\$ 15,000	\$ -	\$ 15,000
	8325.702	Tubing	\$ -	\$ 90,000	\$ -	\$ 90,000
	8325.705	ESP Equipment/Install	\$ -	\$ 40,000	\$ -	\$ 40,000
	8325.704	Downhole Artificial Lift Eqpt	\$ -	\$ 350,000	\$ -	\$ 350,000
	8325.711	Wellhead Equipment	\$ -	\$ 63,508	\$ -	\$ 63,508
<b>Tangible Facility</b>			\$ -	\$ -	\$ 915,100	\$ 915,100
	8355.565	Flowline	\$ -	\$ -	\$ 49,100	\$ 49,100
	8355.510	Tanks	\$ -	\$ -	\$ 128,400	\$ 128,400
	8355.500	Vessels	\$ -	\$ -	\$ 253,200	\$ 253,200
	8355.540	Electrical Supplies	\$ -	\$ -	\$ 68,800	\$ 68,800
	8355.555	Pump / Supplies	\$ -	\$ -	\$ 87,200	\$ 87,200
	8355.525	Containment	\$ -	\$ -	\$ 25,700	\$ 25,700
	8355.515	Flare	\$ -	\$ -	\$ 32,000	\$ 32,000
	8355.530	Compressors	\$ -	\$ -	\$ 11,100	\$ 11,100
	8355.535	Instrumentation / Meters	\$ -	\$ -	\$ 60,500	\$ 60,500
	8355.520	PV/F	\$ -	\$ -	\$ 146,000	\$ 146,000
	8355.550	Overhead Power Material	\$ -	\$ -	\$ 53,100	\$ 53,100
<b>TOTAL TANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 789,620	\$ 602,713	\$ 915,100	\$ 2,307,433

INTANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Intangible Drilling</b>			\$ 3,126,247	\$ -	\$ -	\$ 3,126,247
	8200.103	Drilling - Rig Move	\$ 93,673	\$ -	\$ -	\$ 93,673
	8200.111	Survey, Stake/Permit	\$ 5,263	\$ -	\$ -	\$ 5,263
	8200.112	Location & Roads, Conductor	\$ 124,415	\$ -	\$ -	\$ 124,415
	8200.102	Drilling - Daywork	\$ 830,236	\$ -	\$ -	\$ 830,236
	8200.115	Mud-Drill Water	\$ 5,765	\$ -	\$ -	\$ 5,765
	8200.167	Consulting Services	\$ 250,595	\$ -	\$ -	\$ 250,595
	8200.104	Fuel - Rig	\$ 193,963	\$ -	\$ -	\$ 193,963
	8200.152	Well Control Ins.	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.144	Company Supervision	\$ 2,400	\$ -	\$ -	\$ 2,400
	8200.124	Equipment Rental	\$ 115,861	\$ -	\$ -	\$ 115,861
	8200.106	Transportation	\$ 95,387	\$ -	\$ -	\$ 95,387
	8200.143	Geological Services	\$ 10,201	\$ -	\$ -	\$ 10,201
	8200.137	Casing Services	\$ 72,199	\$ -	\$ -	\$ 72,199
	8200.116	Drill Bits & BHA	\$ 68,801	\$ -	\$ -	\$ 68,801
	8200.125	Inspection	\$ 45,258	\$ -	\$ -	\$ 45,258
	8200.128	Drilling - Directional	\$ 249,531	\$ -	\$ -	\$ 249,531
	8200.165	Safety/Environmental	\$ 2,577	\$ -	\$ -	\$ 2,577
	8200.147	Drilling Overhead	\$ 5,351	\$ -	\$ -	\$ 5,351
	8200.117	Mud & Chemicals	\$ 177,133	\$ -	\$ -	\$ 177,133
	8200.127	Contract Labor	\$ 27,255	\$ -	\$ -	\$ 27,255
	8200.138	Cementing Services	\$ 199,975	\$ -	\$ -	\$ 199,975
	8200.169	Mud-Brine	\$ 25,836	\$ -	\$ -	\$ 25,836
	8200.114	Disposal	\$ 192,723	\$ -	\$ -	\$ 192,723
	8200.168	Roustabout Services	\$ 2,207	\$ -	\$ -	\$ 2,207
	8200.164	Solids Control & Closed Loop	\$ 114,641	\$ -	\$ -	\$ 114,641



**AUTHORIZATION FOR EXPENDITURE**

	8200.162	Mancamp	\$ 46,357	\$ -	\$ -	\$ 46,357
	8200.119	Mud-Auxiliary	\$ 31,462	\$ -	\$ -	\$ 31,462
	8200.113	Damages/Row	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.149	Legal, Title, Etc	\$ 10,525	\$ -	\$ -	\$ 10,525
	8200.170	Mud-Diesel	\$ 110,871	\$ -	\$ -	\$ 110,871
<b>Intangible Completion</b>			\$ -	\$ 6,056,928	\$ -	\$ 6,056,928
	8300.279	Completions Overhead	\$ -	\$ 5,620,434	\$ -	\$ 2,808
	8300.277	Consulting Services	\$ -	\$ 5,620,434	\$ -	\$ 116,828
	8300.275	Frac - Sand	\$ -	\$ 5,620,434	\$ -	\$ 1,015,231
	8300.270	Frac - Equipment	\$ -	\$ 5,620,434	\$ -	\$ 1,692,841
	8300.250	Downhole Rental Equip	\$ -	\$ 5,620,434	\$ -	\$ 43,391
	8300.243	Analysis	\$ -	\$ 5,620,434	\$ -	\$ 9,473
	8300.214	Perforating & Plugs	\$ -	\$ 5,620,434	\$ -	\$ 390,293
	8300.210	Surface Rental Equip	\$ -	\$ 5,620,434	\$ -	\$ 305,001
	8300.273	Flowback	\$ -	\$ 5,620,434	\$ -	\$ 7,821
	8300.278	Roustabouts	\$ -	\$ 5,620,434	\$ -	\$ 1,579
	8300.207	Fresh Water	\$ -	\$ 5,620,434	\$ -	\$ 537,798
	8300.271	Coil Tubing	\$ -	\$ 5,620,434	\$ -	\$ 113,724
	8300.276	Safety & Environmental	\$ -	\$ 5,620,434	\$ -	\$ 3,473
	8300.274	Water Transfer	\$ -	\$ 5,620,434	\$ -	\$ 99,015
	8300.205	Location & Roads	\$ -	\$ 5,620,434	\$ -	\$ 5,288
	8300.229	Transportation	\$ -	\$ 5,620,434	\$ -	\$ 5,263
	8300.203	Fuel	\$ -	\$ 5,620,434	\$ -	\$ 683,704
	8300.240	Pump Down Services	\$ -	\$ 5,620,434	\$ -	\$ 101,040
	8300.209	Chemicals	\$ -	\$ 5,620,434	\$ -	\$ 419,703
	8300.232	Disposal	\$ -	\$ 5,620,434	\$ -	\$ 19,004
	8300.248	Mancamp	\$ -	\$ 5,620,434	\$ -	\$ 21,324
	8300.212	Contract Labor	\$ -	\$ 5,620,434	\$ -	\$ 10,678
	8300.220	Engineering & Supervision	\$ -	\$ 5,620,434	\$ -	\$ 15,156
	8360.845	Wellsite Supervision	\$ -	\$ 341,344	\$ -	\$ 50,400
	8360.820	Well Testing / Flowback	\$ -	\$ 341,344	\$ -	\$ 60,746
	8360.850	Safety / Environmental	\$ -	\$ 341,344	\$ -	\$ 4,400
	8360.825	Rental Equipment	\$ -	\$ 341,344	\$ -	\$ 190,000
	8360.815	Trucking/Vacuum/Transp	\$ -	\$ 341,344	\$ -	\$ 14,334
	8360.805	Trucked Water Disposal	\$ -	\$ 341,344	\$ -	\$ 21,464
	8320.621	Rental Equipment	\$ -	\$ 95,150	\$ -	\$ 15,000
	8320.628	Chemicals	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.602	Workover Rig	\$ -	\$ 95,150	\$ -	\$ 30,000
	8320.625	Wellsite Supervision	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.612	Kill Truck	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.617	Contract Labor/Roustabout	\$ -	\$ 95,150	\$ -	\$ 15,887
	8320.605	Fuel / Power	\$ -	\$ 95,150	\$ -	\$ 5,263
	8320.611	Trucking/Vacuum/Transportation	\$ -	\$ 95,150	\$ -	\$ 10,000
	8320.610	Inspection & Testing	\$ -	\$ 95,150	\$ -	\$ 4,000
<b>Intangible Facility</b>			\$ -	\$ -	\$ 664,900	\$ 664,900
	8350.411	Safety & Environmental	\$ -	\$ -	\$ 11,700	\$ 11,700
	8350.415	Engineering / Technical	\$ -	\$ -	\$ 38,700	\$ 38,700
	8350.417	Overhead Power Labor	\$ -	\$ -	\$ 24,600	\$ 24,600
	8350.422	Flowline Labor	\$ -	\$ -	\$ 35,100	\$ 35,100
	8350.420	Electrical Labor	\$ -	\$ -	\$ 61,900	\$ 61,900
	8350.413	Contingency	\$ -	\$ -	\$ 75,200	\$ 75,200
	8350.421	Commissioning	\$ -	\$ -	\$ 3,500	\$ 3,500
	8350.416	Supervision	\$ -	\$ -	\$ 29,600	\$ 29,600
	8350.410	Transportation/Trucking	\$ -	\$ -	\$ 24,500	\$ 24,500
	8350.403	Roads/Location	\$ -	\$ -	\$ 85,100	\$ 85,100
	8350.418	Mechanical Labor	\$ -	\$ -	\$ 222,500	\$ 222,500
	8350.404	Equipment Rental	\$ -	\$ -	\$ 31,000	\$ 31,000
	8350.419	Automation Labor	\$ -	\$ -	\$ 21,500	\$ 21,500
<b>TOTAL INTANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 3,126,247	\$ 6,056,928	\$ 664,900	\$ 9,848,075
<b>TOTAL PROJECT COSTS &gt;&gt;&gt;</b>			\$ 3,915,867	\$ 6,659,641	\$ 1,580,000	\$ 12,155,508
			<b>Drilling</b>	<b>Completion</b>	<b>Facility</b>	<b>Total</b>

This Authority for Expenditure is based on cost estimates. Billing will reflect your proportionate share of the actual invoice costs.



**AUTHORIZATION FOR EXPENDITURE**

**JOINT INTEREST APPROVAL:**

Company: \_\_\_\_\_

Working Interest: \_\_\_\_\_

Signature: \_\_\_\_\_

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

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



**AUTHORIZATION FOR EXPENDITURE**

**AFE: NM0607**

Date: January 22, 2024

Well Name: Emerald Federal Com #602H

Projected MD/TVD: 20773/10500

Target: 3BS

Spud to TD: 17.6

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T19S-R33E 100' FSL, 1320' FWL

Total Fluid (gal/ft): 3000

**PROJECT DESCRIPTION:**

The proposed AFE is for the Emerald Federal Com #602H, a 2 section Bone Springs horizontal well to be drilled in Lea County, NM. The well is a 3 string casing design consisting of the following: 17.5" surface hole drilled on Fresh to 1250' and 13.375" 54.5# J-55 BTC casing will be set and cemented in place; 12.25" hole will then be drilled on Brine to 3500' and a string of 9.625" 40# J-55 BTC casing will be set and cemented in place; 8.75" production hole will then be drilled on OBM to 20773' and a string of 5.5" 20# P-110 HC GBCD casing will be set and cemented in place. There will be 10000' of treatable lateral and the completions design will consist of +/-64 stages at 2500 lbs/ft & 3000 gals/ft. AFE includes associated costs for initial gas lift installation.

	<u>TOTAL</u>
<b>DRILLING:</b>	<b>\$3,915,866.85</b>
<b>COMPLETIONS:</b>	<b>\$6,659,640.84</b>
<b>FACILITIES:</b>	<b>\$1,580,000.00</b>
<b>COMPLETED WELL COST:</b>	<b>\$12,155,507.69</b>

**OPERATOR APPROVAL:**



**AUTHORIZATION FOR EXPENDITURE**

AFE: NM0607

Date: January 22, 2024

Well Name: Emerald Federal Com #602H

Projected MD/TVD: 20773/10500

Target: 3BS

Spud to TD: 17.6

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T19S-R33E 100' FSL, 1320' FWL

Total Fluid (gal/ft): 3000

TANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Tangible Drilling</b>			\$ 789,620	\$ -	\$ -	\$ 789,620
	8400.340	Wellhead	\$ 56,835	\$ -	\$ -	\$ 56,835
	8400.302	Intrm 1&2 Casing	\$ 126,471	\$ -	\$ -	\$ 126,471
	8400.301	Surface Casing	\$ 64,795	\$ -	\$ -	\$ 64,795
	8400.303	Production Casing	\$ 541,519	\$ -	\$ -	\$ 541,519
<b>Tangible Completion</b>			\$ -	\$ 602,713	\$ -	\$ 602,713
	8400.352	Wellhead & Equipment	\$ -	\$ 44,205	\$ -	\$ 44,205
	8325.719	Contract Labor Install	\$ -	\$ 15,000	\$ -	\$ 15,000
	8325.702	Tubing	\$ -	\$ 90,000	\$ -	\$ 90,000
	8325.705	ESP Equipment/Install	\$ -	\$ 40,000	\$ -	\$ 40,000
	8325.704	Downhole Artificial Lift Eqpt	\$ -	\$ 350,000	\$ -	\$ 350,000
	8325.711	Wellhead Equipment	\$ -	\$ 63,508	\$ -	\$ 63,508
<b>Tangible Facility</b>			\$ -	\$ -	\$ 915,100	\$ 915,100
	8355.565	Flowline	\$ -	\$ -	\$ 49,100	\$ 49,100
	8355.510	Tanks	\$ -	\$ -	\$ 128,400	\$ 128,400
	8355.500	Vessels	\$ -	\$ -	\$ 253,200	\$ 253,200
	8355.540	Electrical Supplies	\$ -	\$ -	\$ 68,800	\$ 68,800
	8355.555	Pump / Supplies	\$ -	\$ -	\$ 87,200	\$ 87,200
	8355.525	Containment	\$ -	\$ -	\$ 25,700	\$ 25,700
	8355.515	Flare	\$ -	\$ -	\$ 32,000	\$ 32,000
	8355.530	Compressors	\$ -	\$ -	\$ 11,100	\$ 11,100
	8355.535	Instrumentation / Meters	\$ -	\$ -	\$ 60,500	\$ 60,500
	8355.520	PV/F	\$ -	\$ -	\$ 146,000	\$ 146,000
	8355.550	Overhead Power Material	\$ -	\$ -	\$ 53,100	\$ 53,100
<b>TOTAL TANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 789,620	\$ 602,713	\$ 915,100	\$ 2,307,433

INTANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Intangible Drilling</b>			\$ 3,126,247	\$ -	\$ -	\$ 3,126,247
	8200.103	Drilling - Rig Move	\$ 93,673	\$ -	\$ -	\$ 93,673
	8200.111	Survey, Stake/Permit	\$ 5,263	\$ -	\$ -	\$ 5,263
	8200.112	Location & Roads, Conductor	\$ 124,415	\$ -	\$ -	\$ 124,415
	8200.102	Drilling - Daywork	\$ 830,236	\$ -	\$ -	\$ 830,236
	8200.115	Mud-Drill Water	\$ 5,765	\$ -	\$ -	\$ 5,765
	8200.167	Consulting Services	\$ 250,595	\$ -	\$ -	\$ 250,595
	8200.104	Fuel - Rig	\$ 193,963	\$ -	\$ -	\$ 193,963
	8200.152	Well Control Ins.	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.144	Company Supervision	\$ 2,400	\$ -	\$ -	\$ 2,400
	8200.124	Equipment Rental	\$ 115,861	\$ -	\$ -	\$ 115,861
	8200.106	Transportation	\$ 95,387	\$ -	\$ -	\$ 95,387
	8200.143	Geological Services	\$ 10,201	\$ -	\$ -	\$ 10,201
	8200.137	Casing Services	\$ 72,199	\$ -	\$ -	\$ 72,199
	8200.116	Drill Bits & BHA	\$ 68,801	\$ -	\$ -	\$ 68,801
	8200.125	Inspection	\$ 45,258	\$ -	\$ -	\$ 45,258
	8200.128	Drilling - Directional	\$ 249,531	\$ -	\$ -	\$ 249,531
	8200.165	Safety/Environmental	\$ 2,577	\$ -	\$ -	\$ 2,577
	8200.147	Drilling Overhead	\$ 5,351	\$ -	\$ -	\$ 5,351
	8200.117	Mud & Chemicals	\$ 177,133	\$ -	\$ -	\$ 177,133
	8200.127	Contract Labor	\$ 27,255	\$ -	\$ -	\$ 27,255
	8200.138	Cementing Services	\$ 199,975	\$ -	\$ -	\$ 199,975
	8200.169	Mud-Brine	\$ 25,836	\$ -	\$ -	\$ 25,836
	8200.114	Disposal	\$ 192,723	\$ -	\$ -	\$ 192,723
	8200.168	Roustabout Services	\$ 2,207	\$ -	\$ -	\$ 2,207
	8200.164	Solids Control & Closed Loop	\$ 114,641	\$ -	\$ -	\$ 114,641



**AUTHORIZATION FOR EXPENDITURE**

	8200.162	Mancamp	\$ 46,357	\$ -	\$ -	\$ 46,357
	8200.119	Mud-Auxiliary	\$ 31,462	\$ -	\$ -	\$ 31,462
	8200.113	Damages/Row	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.149	Legal, Title, Etc	\$ 10,525	\$ -	\$ -	\$ 10,525
	8200.170	Mud-Diesel	\$ 110,871	\$ -	\$ -	\$ 110,871
<b>Intangible Completion</b>			\$ -	\$ 6,056,928	\$ -	\$ 6,056,928
	8300.279	Completions Overhead	\$ -	\$ 5,620,434	\$ -	\$ 2,808
	8300.277	Consulting Services	\$ -	\$ 5,620,434	\$ -	\$ 116,828
	8300.275	Frac - Sand	\$ -	\$ 5,620,434	\$ -	\$ 1,015,231
	8300.270	Frac - Equipment	\$ -	\$ 5,620,434	\$ -	\$ 1,692,841
	8300.250	Downhole Rental Equip	\$ -	\$ 5,620,434	\$ -	\$ 43,391
	8300.243	Analysis	\$ -	\$ 5,620,434	\$ -	\$ 9,473
	8300.214	Perforating & Plugs	\$ -	\$ 5,620,434	\$ -	\$ 390,293
	8300.210	Surface Rental Equip	\$ -	\$ 5,620,434	\$ -	\$ 305,001
	8300.273	Flowback	\$ -	\$ 5,620,434	\$ -	\$ 7,821
	8300.278	Roustabouts	\$ -	\$ 5,620,434	\$ -	\$ 1,579
	8300.207	Fresh Water	\$ -	\$ 5,620,434	\$ -	\$ 537,798
	8300.271	Coil Tubing	\$ -	\$ 5,620,434	\$ -	\$ 113,724
	8300.276	Safety & Environmental	\$ -	\$ 5,620,434	\$ -	\$ 3,473
	8300.274	Water Transfer	\$ -	\$ 5,620,434	\$ -	\$ 99,015
	8300.205	Location & Roads	\$ -	\$ 5,620,434	\$ -	\$ 5,288
	8300.229	Transportation	\$ -	\$ 5,620,434	\$ -	\$ 5,263
	8300.203	Fuel	\$ -	\$ 5,620,434	\$ -	\$ 683,704
	8300.240	Pump Down Services	\$ -	\$ 5,620,434	\$ -	\$ 101,040
	8300.209	Chemicals	\$ -	\$ 5,620,434	\$ -	\$ 419,703
	8300.232	Disposal	\$ -	\$ 5,620,434	\$ -	\$ 19,004
	8300.248	Mancamp	\$ -	\$ 5,620,434	\$ -	\$ 21,324
	8300.212	Contract Labor	\$ -	\$ 5,620,434	\$ -	\$ 10,678
	8300.220	Engineering & Supervision	\$ -	\$ 5,620,434	\$ -	\$ 15,156
	8360.845	Wellsite Supervision	\$ -	\$ 341,344	\$ -	\$ 50,400
	8360.820	Well Testing / Flowback	\$ -	\$ 341,344	\$ -	\$ 60,746
	8360.850	Safety / Environmental	\$ -	\$ 341,344	\$ -	\$ 4,400
	8360.825	Rental Equipment	\$ -	\$ 341,344	\$ -	\$ 190,000
	8360.815	Trucking/Vacuum/Transp	\$ -	\$ 341,344	\$ -	\$ 14,334
	8360.805	Trucked Water Disposal	\$ -	\$ 341,344	\$ -	\$ 21,464
	8320.621	Rental Equipment	\$ -	\$ 95,150	\$ -	\$ 15,000
	8320.628	Chemicals	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.602	Workover Rig	\$ -	\$ 95,150	\$ -	\$ 30,000
	8320.625	Wellsite Supervision	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.612	Kill Truck	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.617	Contract Labor/Roustabout	\$ -	\$ 95,150	\$ -	\$ 15,887
	8320.605	Fuel / Power	\$ -	\$ 95,150	\$ -	\$ 5,263
	8320.611	Trucking/Vacuum/Transportation	\$ -	\$ 95,150	\$ -	\$ 10,000
	8320.610	Inspection & Testing	\$ -	\$ 95,150	\$ -	\$ 4,000
<b>Intangible Facility</b>			\$ -	\$ -	\$ 664,900	\$ 664,900
	8350.411	Safety & Environmental	\$ -	\$ -	\$ 11,700	\$ 11,700
	8350.415	Engineering / Technical	\$ -	\$ -	\$ 38,700	\$ 38,700
	8350.417	Overhead Power Labor	\$ -	\$ -	\$ 24,600	\$ 24,600
	8350.422	Flowline Labor	\$ -	\$ -	\$ 35,100	\$ 35,100
	8350.420	Electrical Labor	\$ -	\$ -	\$ 61,900	\$ 61,900
	8350.413	Contingency	\$ -	\$ -	\$ 75,200	\$ 75,200
	8350.421	Commissioning	\$ -	\$ -	\$ 3,500	\$ 3,500
	8350.416	Supervision	\$ -	\$ -	\$ 29,600	\$ 29,600
	8350.410	Transportation/Trucking	\$ -	\$ -	\$ 24,500	\$ 24,500
	8350.403	Roads/Location	\$ -	\$ -	\$ 85,100	\$ 85,100
	8350.418	Mechanical Labor	\$ -	\$ -	\$ 222,500	\$ 222,500
	8350.404	Equipment Rental	\$ -	\$ -	\$ 31,000	\$ 31,000
	8350.419	Automation Labor	\$ -	\$ -	\$ 21,500	\$ 21,500
<b>TOTAL INTANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 3,126,247	\$ 6,056,928	\$ 664,900	\$ 9,848,075
<b>TOTAL PROJECT COSTS &gt;&gt;&gt;</b>			\$ 3,915,867	\$ 6,659,641	\$ 1,580,000	\$ 12,155,508
			<b>Drilling</b>	<b>Completion</b>	<b>Facility</b>	<b>Total</b>

This Authority for Expenditure is based on cost estimates. Billing will reflect your proportionate share of the actual invoice costs.



**AUTHORIZATION FOR EXPENDITURE**

**JOINT INTEREST APPROVAL:**

Company: \_\_\_\_\_

Working Interest: \_\_\_\_\_

Signature: \_\_\_\_\_

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

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



**AUTHORIZATION FOR EXPENDITURE**

**AFE: NM0608**

Date: January 22, 2024

Well Name: Emerald Federal Com #603H

Projected MD/TVD: 20773/10500

Target: 3BS

Spud to TD: 17.6

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T19S-R33E 100' FSL, 2178' FWL

Total Fluid (gal/ft): 3000

**PROJECT DESCRIPTION:**

The proposed AFE is for the Emerald Federal Com #603H, a 2 section Bone Springs horizontal well to be drilled in Lea County, NM. The well is a 3 string casing design consisting of the following: 17.5" surface hole drilled on Fresh to 1250' and 13.375" 54.5# J-55 BTC casing will be set and cemented in place; 12.25" hole will then be drilled on Brine to 3500' and a string of 9.625" 40# J-55 BTC casing will be set and cemented in place; 8.75" production hole will then be drilled on OBM to 20773' and a string of 5.5" 20# P-110 HC GBCD casing will be set and cemented in place. There will be 10000' of treatable lateral and the completions design will consist of +/-64 stages at 2500 lbs/ft & 3000 gals/ft. AFE includes associated costs for initial gas lift installation.

	<u>TOTAL</u>
<b>DRILLING:</b>	<b>\$3,915,866.85</b>
<b>COMPLETIONS:</b>	<b>\$6,659,640.84</b>
<b>FACILITIES:</b>	<b>\$1,580,000.00</b>
<b>COMPLETED WELL COST:</b>	<b>\$12,155,507.69</b>

**OPERATOR APPROVAL:**



**AUTHORIZATION FOR EXPENDITURE**

AFE: NM0608

Date: January 22, 2024

Well Name: Emerald Federal Com #603H

Projected MD/TVD: 20773/10500

Target: 3BS

Spud to TD: 17.6

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T19S-R33E 100' FSL, 2178' FWL

Total Fluid (gal/ft): 3000

TANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Tangible Drilling</b>			\$ 789,620	\$ -	\$ -	\$ 789,620
	8400.340	Wellhead	\$ 56,835	\$ -	\$ -	\$ 56,835
	8400.302	Intrm 1&2 Casing	\$ 126,471	\$ -	\$ -	\$ 126,471
	8400.301	Surface Casing	\$ 64,795	\$ -	\$ -	\$ 64,795
	8400.303	Production Casing	\$ 541,519	\$ -	\$ -	\$ 541,519
<b>Tangible Completion</b>			\$ -	\$ 602,713	\$ -	\$ 602,713
	8400.352	Wellhead & Equipment	\$ -	\$ 44,205	\$ -	\$ 44,205
	8325.719	Contract Labor Install	\$ -	\$ 15,000	\$ -	\$ 15,000
	8325.702	Tubing	\$ -	\$ 90,000	\$ -	\$ 90,000
	8325.705	ESP Equipment/Install	\$ -	\$ 40,000	\$ -	\$ 40,000
	8325.704	Downhole Artificial Lift Eqpt	\$ -	\$ 350,000	\$ -	\$ 350,000
	8325.711	Wellhead Equipment	\$ -	\$ 63,508	\$ -	\$ 63,508
<b>Tangible Facility</b>			\$ -	\$ -	\$ 915,100	\$ 915,100
	8355.565	Flowline	\$ -	\$ -	\$ 49,100	\$ 49,100
	8355.510	Tanks	\$ -	\$ -	\$ 128,400	\$ 128,400
	8355.500	Vessels	\$ -	\$ -	\$ 253,200	\$ 253,200
	8355.540	Electrical Supplies	\$ -	\$ -	\$ 68,800	\$ 68,800
	8355.555	Pump / Supplies	\$ -	\$ -	\$ 87,200	\$ 87,200
	8355.525	Containment	\$ -	\$ -	\$ 25,700	\$ 25,700
	8355.515	Flare	\$ -	\$ -	\$ 32,000	\$ 32,000
	8355.530	Compressors	\$ -	\$ -	\$ 11,100	\$ 11,100
	8355.535	Instrumentation / Meters	\$ -	\$ -	\$ 60,500	\$ 60,500
	8355.520	PV/F	\$ -	\$ -	\$ 146,000	\$ 146,000
	8355.550	Overhead Power Material	\$ -	\$ -	\$ 53,100	\$ 53,100
<b>TOTAL TANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 789,620	\$ 602,713	\$ 915,100	\$ 2,307,433

INTANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Intangible Drilling</b>			\$ 3,126,247	\$ -	\$ -	\$ 3,126,247
	8200.103	Drilling - Rig Move	\$ 93,673	\$ -	\$ -	\$ 93,673
	8200.111	Survey, Stake/Permit	\$ 5,263	\$ -	\$ -	\$ 5,263
	8200.112	Location & Roads, Conductor	\$ 124,415	\$ -	\$ -	\$ 124,415
	8200.102	Drilling - Daywork	\$ 830,236	\$ -	\$ -	\$ 830,236
	8200.115	Mud-Drill Water	\$ 5,765	\$ -	\$ -	\$ 5,765
	8200.167	Consulting Services	\$ 250,595	\$ -	\$ -	\$ 250,595
	8200.104	Fuel - Rig	\$ 193,963	\$ -	\$ -	\$ 193,963
	8200.152	Well Control Ins.	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.144	Company Supervision	\$ 2,400	\$ -	\$ -	\$ 2,400
	8200.124	Equipment Rental	\$ 115,861	\$ -	\$ -	\$ 115,861
	8200.106	Transportation	\$ 95,387	\$ -	\$ -	\$ 95,387
	8200.143	Geological Services	\$ 10,201	\$ -	\$ -	\$ 10,201
	8200.137	Casing Services	\$ 72,199	\$ -	\$ -	\$ 72,199
	8200.116	Drill Bits & BHA	\$ 68,801	\$ -	\$ -	\$ 68,801
	8200.125	Inspection	\$ 45,258	\$ -	\$ -	\$ 45,258
	8200.128	Drilling - Directional	\$ 249,531	\$ -	\$ -	\$ 249,531
	8200.165	Safety/Environmental	\$ 2,577	\$ -	\$ -	\$ 2,577
	8200.147	Drilling Overhead	\$ 5,351	\$ -	\$ -	\$ 5,351
	8200.117	Mud & Chemicals	\$ 177,133	\$ -	\$ -	\$ 177,133
	8200.127	Contract Labor	\$ 27,255	\$ -	\$ -	\$ 27,255
	8200.138	Cementing Services	\$ 199,975	\$ -	\$ -	\$ 199,975
	8200.169	Mud-Brine	\$ 25,836	\$ -	\$ -	\$ 25,836
	8200.114	Disposal	\$ 192,723	\$ -	\$ -	\$ 192,723
	8200.168	Roustabout Services	\$ 2,207	\$ -	\$ -	\$ 2,207
	8200.164	Solids Control & Closed Loop	\$ 114,641	\$ -	\$ -	\$ 114,641



**AUTHORIZATION FOR EXPENDITURE**

	8200.162	Mancamp	\$ 46,357	\$ -	\$ -	\$ 46,357
	8200.119	Mud-Auxiliary	\$ 31,462	\$ -	\$ -	\$ 31,462
	8200.113	Damages/Row	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.149	Legal, Title, Etc	\$ 10,525	\$ -	\$ -	\$ 10,525
	8200.170	Mud-Diesel	\$ 110,871	\$ -	\$ -	\$ 110,871
<b>Intangible Completion</b>			\$ -	\$ 6,056,928	\$ -	\$ 6,056,928
	8300.279	Completions Overhead	\$ -	\$ 5,620,434	\$ -	\$ 2,808
	8300.277	Consulting Services	\$ -	\$ 5,620,434	\$ -	\$ 116,828
	8300.275	Frac - Sand	\$ -	\$ 5,620,434	\$ -	\$ 1,015,231
	8300.270	Frac - Equipment	\$ -	\$ 5,620,434	\$ -	\$ 1,692,841
	8300.250	Downhole Rental Equip	\$ -	\$ 5,620,434	\$ -	\$ 43,391
	8300.243	Analysis	\$ -	\$ 5,620,434	\$ -	\$ 9,473
	8300.214	Perforating & Plugs	\$ -	\$ 5,620,434	\$ -	\$ 390,293
	8300.210	Surface Rental Equip	\$ -	\$ 5,620,434	\$ -	\$ 305,001
	8300.273	Flowback	\$ -	\$ 5,620,434	\$ -	\$ 7,821
	8300.278	Roustabouts	\$ -	\$ 5,620,434	\$ -	\$ 1,579
	8300.207	Fresh Water	\$ -	\$ 5,620,434	\$ -	\$ 537,798
	8300.271	Coil Tubing	\$ -	\$ 5,620,434	\$ -	\$ 113,724
	8300.276	Safety & Environmental	\$ -	\$ 5,620,434	\$ -	\$ 3,473
	8300.274	Water Transfer	\$ -	\$ 5,620,434	\$ -	\$ 99,015
	8300.205	Location & Roads	\$ -	\$ 5,620,434	\$ -	\$ 5,288
	8300.229	Transportation	\$ -	\$ 5,620,434	\$ -	\$ 5,263
	8300.203	Fuel	\$ -	\$ 5,620,434	\$ -	\$ 683,704
	8300.240	Pump Down Services	\$ -	\$ 5,620,434	\$ -	\$ 101,040
	8300.209	Chemicals	\$ -	\$ 5,620,434	\$ -	\$ 419,703
	8300.232	Disposal	\$ -	\$ 5,620,434	\$ -	\$ 19,004
	8300.248	Mancamp	\$ -	\$ 5,620,434	\$ -	\$ 21,324
	8300.212	Contract Labor	\$ -	\$ 5,620,434	\$ -	\$ 10,678
	8300.220	Engineering & Supervision	\$ -	\$ 5,620,434	\$ -	\$ 15,156
	8360.845	Wellsite Supervision	\$ -	\$ 341,344	\$ -	\$ 50,400
	8360.820	Well Testing / Flowback	\$ -	\$ 341,344	\$ -	\$ 60,746
	8360.850	Safety / Environmental	\$ -	\$ 341,344	\$ -	\$ 4,400
	8360.825	Rental Equipment	\$ -	\$ 341,344	\$ -	\$ 190,000
	8360.815	Trucking/Vacuum/Transp	\$ -	\$ 341,344	\$ -	\$ 14,334
	8360.805	Trucked Water Disposal	\$ -	\$ 341,344	\$ -	\$ 21,464
	8320.621	Rental Equipment	\$ -	\$ 95,150	\$ -	\$ 15,000
	8320.628	Chemicals	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.602	Workover Rig	\$ -	\$ 95,150	\$ -	\$ 30,000
	8320.625	Wellsite Supervision	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.612	Kill Truck	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.617	Contract Labor/Roustabout	\$ -	\$ 95,150	\$ -	\$ 15,887
	8320.605	Fuel / Power	\$ -	\$ 95,150	\$ -	\$ 5,263
	8320.611	Trucking/Vacuum/Transportation	\$ -	\$ 95,150	\$ -	\$ 10,000
	8320.610	Inspection & Testing	\$ -	\$ 95,150	\$ -	\$ 4,000
<b>Intangible Facility</b>			\$ -	\$ -	\$ 664,900	\$ 664,900
	8350.411	Safety & Environmental	\$ -	\$ -	\$ 11,700	\$ 11,700
	8350.415	Engineering / Technical	\$ -	\$ -	\$ 38,700	\$ 38,700
	8350.417	Overhead Power Labor	\$ -	\$ -	\$ 24,600	\$ 24,600
	8350.422	Flowline Labor	\$ -	\$ -	\$ 35,100	\$ 35,100
	8350.420	Electrical Labor	\$ -	\$ -	\$ 61,900	\$ 61,900
	8350.413	Contingency	\$ -	\$ -	\$ 75,200	\$ 75,200
	8350.421	Commissioning	\$ -	\$ -	\$ 3,500	\$ 3,500
	8350.416	Supervision	\$ -	\$ -	\$ 29,600	\$ 29,600
	8350.410	Transportation/Trucking	\$ -	\$ -	\$ 24,500	\$ 24,500
	8350.403	Roads/Location	\$ -	\$ -	\$ 85,100	\$ 85,100
	8350.418	Mechanical Labor	\$ -	\$ -	\$ 222,500	\$ 222,500
	8350.404	Equipment Rental	\$ -	\$ -	\$ 31,000	\$ 31,000
	8350.419	Automation Labor	\$ -	\$ -	\$ 21,500	\$ 21,500
<b>TOTAL INTANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 3,126,247	\$ 6,056,928	\$ 664,900	\$ 9,848,075
<b>TOTAL PROJECT COSTS &gt;&gt;&gt;</b>			\$ 3,915,867	\$ 6,659,641	\$ 1,580,000	\$ 12,155,508
			<b>Drilling</b>	<b>Completion</b>	<b>Facility</b>	<b>Total</b>

This Authority for Expenditure is based on cost estimates. Billing will reflect your proportionate share of the actual invoice costs.



**AUTHORIZATION FOR EXPENDITURE**

**JOINT INTEREST APPROVAL:**

Company: \_\_\_\_\_

Working Interest: \_\_\_\_\_

Signature: \_\_\_\_\_

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

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



**AUTHORIZATION FOR EXPENDITURE**

**AFE: NM0615**

Date: January 22, 2024

Well Name: Emerald Federal Com #604H

Projected MD/TVD: 20773/10500

Target: 3BS

Spud to TD: 17.6

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T19S-R33E 100' FSL, 2178' FEL

Total Fluid (gal/ft): 3000

**PROJECT DESCRIPTION:**

The proposed AFE is for the Emerald Federal Com #604H, a 2 section Bone Springs horizontal well to be drilled in Lea County, NM. The well is a 3 string casing design consisting of the following: 17.5" surface hole drilled on Fresh to 1250' and 13.375" 54.5# J-55 BTC casing will be set and cemented in place; 12.25" hole will then be drilled on Brine to 3500' and a string of 9.625" 40# J-55 BTC casing will be set and cemented in place; 8.75" production hole will then be drilled on OBM to 20773' and a string of 5.5" 20# P-110 HC GBCD casing will be set and cemented in place. There will be 10000' of treatable lateral and the completions design will consist of +/-64 stages at 2500 lbs/ft & 3000 gals/ft. AFE includes associated costs for initial gas lift installation.

	<u>TOTAL</u>
<b>DRILLING:</b>	<b>\$3,915,866.85</b>
<b>COMPLETIONS:</b>	<b>\$6,659,640.84</b>
<b>FACILITIES:</b>	<b>\$1,580,000.00</b>
<b>COMPLETED WELL COST:</b>	<b>\$12,155,507.69</b>

**OPERATOR APPROVAL:**



**AUTHORIZATION FOR EXPENDITURE**

AFE: NM0615

Date: January 22, 2024

Well Name: Emerald Federal Com #604H

Projected MD/TVD: 20773/10500

Target: 3BS

Spud to TD: 17.6

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T19S-R33E 100' FSL, 2178' FEL

Total Fluid (gal/ft): 3000

TANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Tangible Drilling</b>			\$ 789,620	\$ -	\$ -	\$ 789,620
	8400.340	Wellhead	\$ 56,835	\$ -	\$ -	\$ 56,835
	8400.302	Intrm 1&2 Casing	\$ 126,471	\$ -	\$ -	\$ 126,471
	8400.301	Surface Casing	\$ 64,795	\$ -	\$ -	\$ 64,795
	8400.303	Production Casing	\$ 541,519	\$ -	\$ -	\$ 541,519
<b>Tangible Completion</b>			\$ -	\$ 602,713	\$ -	\$ 602,713
	8400.352	Wellhead & Equipment	\$ -	\$ 44,205	\$ -	\$ 44,205
	8325.719	Contract Labor Install	\$ -	\$ 15,000	\$ -	\$ 15,000
	8325.702	Tubing	\$ -	\$ 90,000	\$ -	\$ 90,000
	8325.705	ESP Equipment/Install	\$ -	\$ 40,000	\$ -	\$ 40,000
	8325.704	Downhole Artificial Lift Eqpt	\$ -	\$ 350,000	\$ -	\$ 350,000
	8325.711	Wellhead Equipment	\$ -	\$ 63,508	\$ -	\$ 63,508
<b>Tangible Facility</b>			\$ -	\$ -	\$ 915,100	\$ 915,100
	8355.565	Flowline	\$ -	\$ -	\$ 49,100	\$ 49,100
	8355.510	Tanks	\$ -	\$ -	\$ 128,400	\$ 128,400
	8355.500	Vessels	\$ -	\$ -	\$ 253,200	\$ 253,200
	8355.540	Electrical Supplies	\$ -	\$ -	\$ 68,800	\$ 68,800
	8355.555	Pump / Supplies	\$ -	\$ -	\$ 87,200	\$ 87,200
	8355.525	Containment	\$ -	\$ -	\$ 25,700	\$ 25,700
	8355.515	Flare	\$ -	\$ -	\$ 32,000	\$ 32,000
	8355.530	Compressors	\$ -	\$ -	\$ 11,100	\$ 11,100
	8355.535	Instrumentation / Meters	\$ -	\$ -	\$ 60,500	\$ 60,500
	8355.520	PV/F	\$ -	\$ -	\$ 146,000	\$ 146,000
	8355.550	Overhead Power Material	\$ -	\$ -	\$ 53,100	\$ 53,100
<b>TOTAL TANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 789,620	\$ 602,713	\$ 915,100	\$ 2,307,433

INTANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Intangible Drilling</b>			\$ 3,126,247	\$ -	\$ -	\$ 3,126,247
	8200.103	Drilling - Rig Move	\$ 93,673	\$ -	\$ -	\$ 93,673
	8200.111	Survey, Stake/Permit	\$ 5,263	\$ -	\$ -	\$ 5,263
	8200.112	Location & Roads, Conductor	\$ 124,415	\$ -	\$ -	\$ 124,415
	8200.102	Drilling - Daywork	\$ 830,236	\$ -	\$ -	\$ 830,236
	8200.115	Mud-Drill Water	\$ 5,765	\$ -	\$ -	\$ 5,765
	8200.167	Consulting Services	\$ 250,595	\$ -	\$ -	\$ 250,595
	8200.104	Fuel - Rig	\$ 193,963	\$ -	\$ -	\$ 193,963
	8200.152	Well Control Ins.	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.144	Company Supervision	\$ 2,400	\$ -	\$ -	\$ 2,400
	8200.124	Equipment Rental	\$ 115,861	\$ -	\$ -	\$ 115,861
	8200.106	Transportation	\$ 95,387	\$ -	\$ -	\$ 95,387
	8200.143	Geological Services	\$ 10,201	\$ -	\$ -	\$ 10,201
	8200.137	Casing Services	\$ 72,199	\$ -	\$ -	\$ 72,199
	8200.116	Drill Bits & BHA	\$ 68,801	\$ -	\$ -	\$ 68,801
	8200.125	Inspection	\$ 45,258	\$ -	\$ -	\$ 45,258
	8200.128	Drilling - Directional	\$ 249,531	\$ -	\$ -	\$ 249,531
	8200.165	Safety/Environmental	\$ 2,577	\$ -	\$ -	\$ 2,577
	8200.147	Drilling Overhead	\$ 5,351	\$ -	\$ -	\$ 5,351
	8200.117	Mud & Chemicals	\$ 177,133	\$ -	\$ -	\$ 177,133
	8200.127	Contract Labor	\$ 27,255	\$ -	\$ -	\$ 27,255
	8200.138	Cementing Services	\$ 199,975	\$ -	\$ -	\$ 199,975
	8200.169	Mud-Brine	\$ 25,836	\$ -	\$ -	\$ 25,836
	8200.114	Disposal	\$ 192,723	\$ -	\$ -	\$ 192,723
	8200.168	Roustabout Services	\$ 2,207	\$ -	\$ -	\$ 2,207
	8200.164	Solids Control & Closed Loop	\$ 114,641	\$ -	\$ -	\$ 114,641



**AUTHORIZATION FOR EXPENDITURE**

	8200.162	Mancamp	\$ 46,357	\$ -	\$ -	\$ 46,357
	8200.119	Mud-Auxiliary	\$ 31,462	\$ -	\$ -	\$ 31,462
	8200.113	Damages/Row	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.149	Legal, Title, Etc	\$ 10,525	\$ -	\$ -	\$ 10,525
	8200.170	Mud-Diesel	\$ 110,871	\$ -	\$ -	\$ 110,871
<b>Intangible Completion</b>			\$ -	\$ 6,056,928	\$ -	\$ 6,056,928
	8300.279	Completions Overhead	\$ -	\$ 5,620,434	\$ -	\$ 2,808
	8300.277	Consulting Services	\$ -	\$ 5,620,434	\$ -	\$ 116,828
	8300.275	Frac - Sand	\$ -	\$ 5,620,434	\$ -	\$ 1,015,231
	8300.270	Frac - Equipment	\$ -	\$ 5,620,434	\$ -	\$ 1,692,841
	8300.250	Downhole Rental Equip	\$ -	\$ 5,620,434	\$ -	\$ 43,391
	8300.243	Analysis	\$ -	\$ 5,620,434	\$ -	\$ 9,473
	8300.214	Perforating & Plugs	\$ -	\$ 5,620,434	\$ -	\$ 390,293
	8300.210	Surface Rental Equip	\$ -	\$ 5,620,434	\$ -	\$ 305,001
	8300.273	Flowback	\$ -	\$ 5,620,434	\$ -	\$ 7,821
	8300.278	Roustabouts	\$ -	\$ 5,620,434	\$ -	\$ 1,579
	8300.207	Fresh Water	\$ -	\$ 5,620,434	\$ -	\$ 537,798
	8300.271	Coil Tubing	\$ -	\$ 5,620,434	\$ -	\$ 113,724
	8300.276	Safety & Environmental	\$ -	\$ 5,620,434	\$ -	\$ 3,473
	8300.274	Water Transfer	\$ -	\$ 5,620,434	\$ -	\$ 99,015
	8300.205	Location & Roads	\$ -	\$ 5,620,434	\$ -	\$ 5,288
	8300.229	Transportation	\$ -	\$ 5,620,434	\$ -	\$ 5,263
	8300.203	Fuel	\$ -	\$ 5,620,434	\$ -	\$ 683,704
	8300.240	Pump Down Services	\$ -	\$ 5,620,434	\$ -	\$ 101,040
	8300.209	Chemicals	\$ -	\$ 5,620,434	\$ -	\$ 419,703
	8300.232	Disposal	\$ -	\$ 5,620,434	\$ -	\$ 19,004
	8300.248	Mancamp	\$ -	\$ 5,620,434	\$ -	\$ 21,324
	8300.212	Contract Labor	\$ -	\$ 5,620,434	\$ -	\$ 10,678
	8300.220	Engineering & Supervision	\$ -	\$ 5,620,434	\$ -	\$ 15,156
	8360.845	Wellsite Supervision	\$ -	\$ 341,344	\$ -	\$ 50,400
	8360.820	Well Testing / Flowback	\$ -	\$ 341,344	\$ -	\$ 60,746
	8360.850	Safety / Environmental	\$ -	\$ 341,344	\$ -	\$ 4,400
	8360.825	Rental Equipment	\$ -	\$ 341,344	\$ -	\$ 190,000
	8360.815	Trucking/Vacuum/Transp	\$ -	\$ 341,344	\$ -	\$ 14,334
	8360.805	Trucked Water Disposal	\$ -	\$ 341,344	\$ -	\$ 21,464
	8320.621	Rental Equipment	\$ -	\$ 95,150	\$ -	\$ 15,000
	8320.628	Chemicals	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.602	Workover Rig	\$ -	\$ 95,150	\$ -	\$ 30,000
	8320.625	Wellsite Supervision	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.612	Kill Truck	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.617	Contract Labor/Roustabout	\$ -	\$ 95,150	\$ -	\$ 15,887
	8320.605	Fuel / Power	\$ -	\$ 95,150	\$ -	\$ 5,263
	8320.611	Trucking/Vacuum/Transportation	\$ -	\$ 95,150	\$ -	\$ 10,000
	8320.610	Inspection & Testing	\$ -	\$ 95,150	\$ -	\$ 4,000
<b>Intangible Facility</b>			\$ -	\$ -	\$ 664,900	\$ 664,900
	8350.411	Safety & Environmental	\$ -	\$ -	\$ 11,700	\$ 11,700
	8350.415	Engineering / Technical	\$ -	\$ -	\$ 38,700	\$ 38,700
	8350.417	Overhead Power Labor	\$ -	\$ -	\$ 24,600	\$ 24,600
	8350.422	Flowline Labor	\$ -	\$ -	\$ 35,100	\$ 35,100
	8350.420	Electrical Labor	\$ -	\$ -	\$ 61,900	\$ 61,900
	8350.413	Contingency	\$ -	\$ -	\$ 75,200	\$ 75,200
	8350.421	Commissioning	\$ -	\$ -	\$ 3,500	\$ 3,500
	8350.416	Supervision	\$ -	\$ -	\$ 29,600	\$ 29,600
	8350.410	Transportation/Trucking	\$ -	\$ -	\$ 24,500	\$ 24,500
	8350.403	Roads/Location	\$ -	\$ -	\$ 85,100	\$ 85,100
	8350.418	Mechanical Labor	\$ -	\$ -	\$ 222,500	\$ 222,500
	8350.404	Equipment Rental	\$ -	\$ -	\$ 31,000	\$ 31,000
	8350.419	Automation Labor	\$ -	\$ -	\$ 21,500	\$ 21,500
<b>TOTAL INTANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 3,126,247	\$ 6,056,928	\$ 664,900	\$ 9,848,075
<b>TOTAL PROJECT COSTS &gt;&gt;&gt;</b>			\$ 3,915,867	\$ 6,659,641	\$ 1,580,000	\$ 12,155,508
			<b>Drilling</b>	<b>Completion</b>	<b>Facility</b>	<b>Total</b>

This Authority for Expenditure is based on cost estimates. Billing will reflect your proportionate share of the actual invoice costs.



**AUTHORIZATION FOR EXPENDITURE**

**JOINT INTEREST APPROVAL:**

Company: \_\_\_\_\_

Working Interest: \_\_\_\_\_

Signature: \_\_\_\_\_

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

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



**AUTHORIZATION FOR EXPENDITURE**

**AFE: NM0616**

Date: January 22, 2024

Well Name: Emerald Federal Com #605H

Projected MD/TVD: 20773/10500

Target: 3BS

Spud to TD: 17.6

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T19S-R33E 100' FSL, 1320' FEL

Total Fluid (gal/ft): 3000

**PROJECT DESCRIPTION:**

The proposed AFE is for the Emerald Federal Com #605H, a 2 section Bone Springs horizontal well to be drilled in Lea County, NM. The well is a 3 string casing design consisting of the following: 17.5" surface hole drilled on Fresh to 1250' and 13.375" 54.5# J-55 BTC casing will be set and cemented in place; 12.25" hole will then be drilled on Brine to 3500' and a string of 9.625" 40# J-55 BTC casing will be set and cemented in place; 8.75" production hole will then be drilled on OBM to 20773' and a string of 5.5" 20# P-110 HC GBCD casing will be set and cemented in place. There will be 10000' of treatable lateral and the completions design will consist of +/-64 stages at 2500 lbs/ft & 3000 gals/ft. AFE includes associated costs for initial gas lift installation.

	<u>TOTAL</u>
<b>DRILLING:</b>	<b>\$3,915,866.85</b>
<b>COMPLETIONS:</b>	<b>\$6,659,640.84</b>
<b>FACILITIES:</b>	<b>\$1,580,000.00</b>
<b>COMPLETED WELL COST:</b>	<b>\$12,155,507.69</b>

**OPERATOR APPROVAL:**



**AUTHORIZATION FOR EXPENDITURE**

AFE: NM0616

Date: January 22, 2024

Well Name: Emerald Federal Com #605H

Projected MD/TVD: 20773/10500

Target: 3BS

Spud to TD: 17.6

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T19S-R33E 100' FSL, 1320' FEL

Total Fluid (gal/ft): 3000

TANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Tangible Drilling</b>			\$ 789,620	\$ -	\$ -	\$ 789,620
	8400.340	Wellhead	\$ 56,835	\$ -	\$ -	\$ 56,835
	8400.302	Intrm 1&2 Casing	\$ 126,471	\$ -	\$ -	\$ 126,471
	8400.301	Surface Casing	\$ 64,795	\$ -	\$ -	\$ 64,795
	8400.303	Production Casing	\$ 541,519	\$ -	\$ -	\$ 541,519
<b>Tangible Completion</b>			\$ -	\$ 602,713	\$ -	\$ 602,713
	8400.352	Wellhead & Equipment	\$ -	\$ 44,205	\$ -	\$ 44,205
	8325.719	Contract Labor Install	\$ -	\$ 15,000	\$ -	\$ 15,000
	8325.702	Tubing	\$ -	\$ 90,000	\$ -	\$ 90,000
	8325.705	ESP Equipment/Install	\$ -	\$ 40,000	\$ -	\$ 40,000
	8325.704	Downhole Artificial Lift Eqpt	\$ -	\$ 350,000	\$ -	\$ 350,000
	8325.711	Wellhead Equipment	\$ -	\$ 63,508	\$ -	\$ 63,508
<b>Tangible Facility</b>			\$ -	\$ -	\$ 915,100	\$ 915,100
	8355.565	Flowline	\$ -	\$ -	\$ 49,100	\$ 49,100
	8355.510	Tanks	\$ -	\$ -	\$ 128,400	\$ 128,400
	8355.500	Vessels	\$ -	\$ -	\$ 253,200	\$ 253,200
	8355.540	Electrical Supplies	\$ -	\$ -	\$ 68,800	\$ 68,800
	8355.555	Pump / Supplies	\$ -	\$ -	\$ 87,200	\$ 87,200
	8355.525	Containment	\$ -	\$ -	\$ 25,700	\$ 25,700
	8355.515	Flare	\$ -	\$ -	\$ 32,000	\$ 32,000
	8355.530	Compressors	\$ -	\$ -	\$ 11,100	\$ 11,100
	8355.535	Instrumentation / Meters	\$ -	\$ -	\$ 60,500	\$ 60,500
	8355.520	PV/F	\$ -	\$ -	\$ 146,000	\$ 146,000
	8355.550	Overhead Power Material	\$ -	\$ -	\$ 53,100	\$ 53,100
<b>TOTAL TANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 789,620	\$ 602,713	\$ 915,100	\$ 2,307,433

INTANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Intangible Drilling</b>			\$ 3,126,247	\$ -	\$ -	\$ 3,126,247
	8200.103	Drilling - Rig Move	\$ 93,673	\$ -	\$ -	\$ 93,673
	8200.111	Survey, Stake/Permit	\$ 5,263	\$ -	\$ -	\$ 5,263
	8200.112	Location & Roads, Conductor	\$ 124,415	\$ -	\$ -	\$ 124,415
	8200.102	Drilling - Daywork	\$ 830,236	\$ -	\$ -	\$ 830,236
	8200.115	Mud-Drill Water	\$ 5,765	\$ -	\$ -	\$ 5,765
	8200.167	Consulting Services	\$ 250,595	\$ -	\$ -	\$ 250,595
	8200.104	Fuel - Rig	\$ 193,963	\$ -	\$ -	\$ 193,963
	8200.152	Well Control Ins.	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.144	Company Supervision	\$ 2,400	\$ -	\$ -	\$ 2,400
	8200.124	Equipment Rental	\$ 115,861	\$ -	\$ -	\$ 115,861
	8200.106	Transportation	\$ 95,387	\$ -	\$ -	\$ 95,387
	8200.143	Geological Services	\$ 10,201	\$ -	\$ -	\$ 10,201
	8200.137	Casing Services	\$ 72,199	\$ -	\$ -	\$ 72,199
	8200.116	Drill Bits & BHA	\$ 68,801	\$ -	\$ -	\$ 68,801
	8200.125	Inspection	\$ 45,258	\$ -	\$ -	\$ 45,258
	8200.128	Drilling - Directional	\$ 249,531	\$ -	\$ -	\$ 249,531
	8200.165	Safety/Environmental	\$ 2,577	\$ -	\$ -	\$ 2,577
	8200.147	Drilling Overhead	\$ 5,351	\$ -	\$ -	\$ 5,351
	8200.117	Mud & Chemicals	\$ 177,133	\$ -	\$ -	\$ 177,133
	8200.127	Contract Labor	\$ 27,255	\$ -	\$ -	\$ 27,255
	8200.138	Cementing Services	\$ 199,975	\$ -	\$ -	\$ 199,975
	8200.169	Mud-Brine	\$ 25,836	\$ -	\$ -	\$ 25,836
	8200.114	Disposal	\$ 192,723	\$ -	\$ -	\$ 192,723
	8200.168	Roustabout Services	\$ 2,207	\$ -	\$ -	\$ 2,207
	8200.164	Solids Control & Closed Loop	\$ 114,641	\$ -	\$ -	\$ 114,641



**AUTHORIZATION FOR EXPENDITURE**

	8200.162	Mancamp	\$ 46,357	\$ -	\$ -	\$ 46,357
	8200.119	Mud-Auxiliary	\$ 31,462	\$ -	\$ -	\$ 31,462
	8200.113	Damages/Row	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.149	Legal, Title, Etc	\$ 10,525	\$ -	\$ -	\$ 10,525
	8200.170	Mud-Diesel	\$ 110,871	\$ -	\$ -	\$ 110,871
<b>Intangible Completion</b>			\$ -	\$ 6,056,928	\$ -	\$ 6,056,928
	8300.279	Completions Overhead	\$ -	\$ 5,620,434	\$ -	\$ 2,808
	8300.277	Consulting Services	\$ -	\$ 5,620,434	\$ -	\$ 116,828
	8300.275	Frac - Sand	\$ -	\$ 5,620,434	\$ -	\$ 1,015,231
	8300.270	Frac - Equipment	\$ -	\$ 5,620,434	\$ -	\$ 1,692,841
	8300.250	Downhole Rental Equip	\$ -	\$ 5,620,434	\$ -	\$ 43,391
	8300.243	Analysis	\$ -	\$ 5,620,434	\$ -	\$ 9,473
	8300.214	Perforating & Plugs	\$ -	\$ 5,620,434	\$ -	\$ 390,293
	8300.210	Surface Rental Equip	\$ -	\$ 5,620,434	\$ -	\$ 305,001
	8300.273	Flowback	\$ -	\$ 5,620,434	\$ -	\$ 7,821
	8300.278	Roustabouts	\$ -	\$ 5,620,434	\$ -	\$ 1,579
	8300.207	Fresh Water	\$ -	\$ 5,620,434	\$ -	\$ 537,798
	8300.271	Coil Tubing	\$ -	\$ 5,620,434	\$ -	\$ 113,724
	8300.276	Safety & Environmental	\$ -	\$ 5,620,434	\$ -	\$ 3,473
	8300.274	Water Transfer	\$ -	\$ 5,620,434	\$ -	\$ 99,015
	8300.205	Location & Roads	\$ -	\$ 5,620,434	\$ -	\$ 5,288
	8300.229	Transportation	\$ -	\$ 5,620,434	\$ -	\$ 5,263
	8300.203	Fuel	\$ -	\$ 5,620,434	\$ -	\$ 683,704
	8300.240	Pump Down Services	\$ -	\$ 5,620,434	\$ -	\$ 101,040
	8300.209	Chemicals	\$ -	\$ 5,620,434	\$ -	\$ 419,703
	8300.232	Disposal	\$ -	\$ 5,620,434	\$ -	\$ 19,004
	8300.248	Mancamp	\$ -	\$ 5,620,434	\$ -	\$ 21,324
	8300.212	Contract Labor	\$ -	\$ 5,620,434	\$ -	\$ 10,678
	8300.220	Engineering & Supervision	\$ -	\$ 5,620,434	\$ -	\$ 15,156
	8360.845	Wellsite Supervision	\$ -	\$ 341,344	\$ -	\$ 50,400
	8360.820	Well Testing / Flowback	\$ -	\$ 341,344	\$ -	\$ 60,746
	8360.850	Safety / Environmental	\$ -	\$ 341,344	\$ -	\$ 4,400
	8360.825	Rental Equipment	\$ -	\$ 341,344	\$ -	\$ 190,000
	8360.815	Trucking/Vacuum/Transp	\$ -	\$ 341,344	\$ -	\$ 14,334
	8360.805	Trucked Water Disposal	\$ -	\$ 341,344	\$ -	\$ 21,464
	8320.621	Rental Equipment	\$ -	\$ 95,150	\$ -	\$ 15,000
	8320.628	Chemicals	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.602	Workover Rig	\$ -	\$ 95,150	\$ -	\$ 30,000
	8320.625	Wellsite Supervision	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.612	Kill Truck	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.617	Contract Labor/Roustabout	\$ -	\$ 95,150	\$ -	\$ 15,887
	8320.605	Fuel / Power	\$ -	\$ 95,150	\$ -	\$ 5,263
	8320.611	Trucking/Vacuum/Transportation	\$ -	\$ 95,150	\$ -	\$ 10,000
	8320.610	Inspection & Testing	\$ -	\$ 95,150	\$ -	\$ 4,000
<b>Intangible Facility</b>			\$ -	\$ -	\$ 664,900	\$ 664,900
	8350.411	Safety & Environmental	\$ -	\$ -	\$ 11,700	\$ 11,700
	8350.415	Engineering / Technical	\$ -	\$ -	\$ 38,700	\$ 38,700
	8350.417	Overhead Power Labor	\$ -	\$ -	\$ 24,600	\$ 24,600
	8350.422	Flowline Labor	\$ -	\$ -	\$ 35,100	\$ 35,100
	8350.420	Electrical Labor	\$ -	\$ -	\$ 61,900	\$ 61,900
	8350.413	Contingency	\$ -	\$ -	\$ 75,200	\$ 75,200
	8350.421	Commissioning	\$ -	\$ -	\$ 3,500	\$ 3,500
	8350.416	Supervision	\$ -	\$ -	\$ 29,600	\$ 29,600
	8350.410	Transportation/Trucking	\$ -	\$ -	\$ 24,500	\$ 24,500
	8350.403	Roads/Location	\$ -	\$ -	\$ 85,100	\$ 85,100
	8350.418	Mechanical Labor	\$ -	\$ -	\$ 222,500	\$ 222,500
	8350.404	Equipment Rental	\$ -	\$ -	\$ 31,000	\$ 31,000
	8350.419	Automation Labor	\$ -	\$ -	\$ 21,500	\$ 21,500
<b>TOTAL INTANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 3,126,247	\$ 6,056,928	\$ 664,900	\$ 9,848,075
<b>TOTAL PROJECT COSTS &gt;&gt;&gt;</b>			\$ 3,915,867	\$ 6,659,641	\$ 1,580,000	\$ 12,155,508
			<b>Drilling</b>	<b>Completion</b>	<b>Facility</b>	<b>Total</b>

This Authority for Expenditure is based on cost estimates. Billing will reflect your proportionate share of the actual invoice costs.



**AUTHORIZATION FOR EXPENDITURE**

**JOINT INTEREST APPROVAL:**

Company: \_\_\_\_\_

Working Interest: \_\_\_\_\_

Signature: \_\_\_\_\_

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

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



**AUTHORIZATION FOR EXPENDITURE**

**AFE: NM0617**

Date: January 22, 2024

Well Name: Emerald Federal Com #606H

Projected MD/TVD: 20773/10500

Target: 3BS

Spud to TD: 17.6

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T19S-R33E 100' FSL, 330' FEL

Total Fluid (gal/ft): 3000

**PROJECT DESCRIPTION:**

The proposed AFE is for the Emerald Federal Com #606H, a 2 section Bone Springs horizontal well to be drilled in Lea County, NM. The well is a 3 string casing design consisting of the following: 17.5" surface hole drilled on Fresh to 1250' and 13.375" 54.5# J-55 BTC casing will be set and cemented in place; 12.25" hole will then be drilled on Brine to 3500' and a string of 9.625" 40# J-55 BTC casing will be set and cemented in place; 8.75" production hole will then be drilled on OBM to 20773' and a string of 5.5" 20# P-110 HC GBCD casing will be set and cemented in place. There will be 10000' of treatable lateral and the completions design will consist of +/-64 stages at 2500 lbs/ft & 3000 gals/ft. AFE includes associated costs for initial gas lift installation.

	<u>TOTAL</u>
<b>DRILLING:</b>	<b>\$3,915,866.85</b>
<b>COMPLETIONS:</b>	<b>\$6,659,640.84</b>
<b>FACILITIES:</b>	<b>\$1,580,000.00</b>
<b>COMPLETED WELL COST:</b>	<b>\$12,155,507.69</b>

**OPERATOR APPROVAL:**



**AUTHORIZATION FOR EXPENDITURE**

AFE: NM0617

Date: January 22, 2024

Well Name: Emerald Federal Com #606H

Projected MD/TVD: 20773/10500

Target: 3BS

Spud to TD: 17.6

County: Lea

Lateral Length: 10000

State: NM

Stages: 64

SHL: S6-T19S-R33E

Total Proppant (ppf): 2500

BHL: S31-T19S-R33E 100' FSL, 330' FEL

Total Fluid (gal/ft): 3000

TANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Tangible Drilling</b>			\$ 789,620	\$ -	\$ -	\$ 789,620
	8400.340	Wellhead	\$ 56,835	\$ -	\$ -	\$ 56,835
	8400.302	Intrm 1&2 Casing	\$ 126,471	\$ -	\$ -	\$ 126,471
	8400.301	Surface Casing	\$ 64,795	\$ -	\$ -	\$ 64,795
	8400.303	Production Casing	\$ 541,519	\$ -	\$ -	\$ 541,519
<b>Tangible Completion</b>			\$ -	\$ 602,713	\$ -	\$ 602,713
	8400.352	Wellhead & Equipment	\$ -	\$ 44,205	\$ -	\$ 44,205
	8325.719	Contract Labor Install	\$ -	\$ 15,000	\$ -	\$ 15,000
	8325.702	Tubing	\$ -	\$ 90,000	\$ -	\$ 90,000
	8325.705	ESP Equipment/Install	\$ -	\$ 40,000	\$ -	\$ 40,000
	8325.704	Downhole Artificial Lift Eqpt	\$ -	\$ 350,000	\$ -	\$ 350,000
	8325.711	Wellhead Equipment	\$ -	\$ 63,508	\$ -	\$ 63,508
<b>Tangible Facility</b>			\$ -	\$ -	\$ 915,100	\$ 915,100
	8355.565	Flowline	\$ -	\$ -	\$ 49,100	\$ 49,100
	8355.510	Tanks	\$ -	\$ -	\$ 128,400	\$ 128,400
	8355.500	Vessels	\$ -	\$ -	\$ 253,200	\$ 253,200
	8355.540	Electrical Supplies	\$ -	\$ -	\$ 68,800	\$ 68,800
	8355.555	Pump / Supplies	\$ -	\$ -	\$ 87,200	\$ 87,200
	8355.525	Containment	\$ -	\$ -	\$ 25,700	\$ 25,700
	8355.515	Flare	\$ -	\$ -	\$ 32,000	\$ 32,000
	8355.530	Compressors	\$ -	\$ -	\$ 11,100	\$ 11,100
	8355.535	Instrumentation / Meters	\$ -	\$ -	\$ 60,500	\$ 60,500
	8355.520	PV/F	\$ -	\$ -	\$ 146,000	\$ 146,000
	8355.550	Overhead Power Material	\$ -	\$ -	\$ 53,100	\$ 53,100
<b>TOTAL TANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 789,620	\$ 602,713	\$ 915,100	\$ 2,307,433

INTANGIBLE COSTS			Drilling	Completion	Facility	Total
<b>Intangible Drilling</b>			\$ 3,126,247	\$ -	\$ -	\$ 3,126,247
	8200.103	Drilling - Rig Move	\$ 93,673	\$ -	\$ -	\$ 93,673
	8200.111	Survey, Stake/Permit	\$ 5,263	\$ -	\$ -	\$ 5,263
	8200.112	Location & Roads, Conductor	\$ 124,415	\$ -	\$ -	\$ 124,415
	8200.102	Drilling - Daywork	\$ 830,236	\$ -	\$ -	\$ 830,236
	8200.115	Mud-Drill Water	\$ 5,765	\$ -	\$ -	\$ 5,765
	8200.167	Consulting Services	\$ 250,595	\$ -	\$ -	\$ 250,595
	8200.104	Fuel - Rig	\$ 193,963	\$ -	\$ -	\$ 193,963
	8200.152	Well Control Ins.	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.144	Company Supervision	\$ 2,400	\$ -	\$ -	\$ 2,400
	8200.124	Equipment Rental	\$ 115,861	\$ -	\$ -	\$ 115,861
	8200.106	Transportation	\$ 95,387	\$ -	\$ -	\$ 95,387
	8200.143	Geological Services	\$ 10,201	\$ -	\$ -	\$ 10,201
	8200.137	Casing Services	\$ 72,199	\$ -	\$ -	\$ 72,199
	8200.116	Drill Bits & BHA	\$ 68,801	\$ -	\$ -	\$ 68,801
	8200.125	Inspection	\$ 45,258	\$ -	\$ -	\$ 45,258
	8200.128	Drilling - Directional	\$ 249,531	\$ -	\$ -	\$ 249,531
	8200.165	Safety/Environmental	\$ 2,577	\$ -	\$ -	\$ 2,577
	8200.147	Drilling Overhead	\$ 5,351	\$ -	\$ -	\$ 5,351
	8200.117	Mud & Chemicals	\$ 177,133	\$ -	\$ -	\$ 177,133
	8200.127	Contract Labor	\$ 27,255	\$ -	\$ -	\$ 27,255
	8200.138	Cementing Services	\$ 199,975	\$ -	\$ -	\$ 199,975
	8200.169	Mud-Brine	\$ 25,836	\$ -	\$ -	\$ 25,836
	8200.114	Disposal	\$ 192,723	\$ -	\$ -	\$ 192,723
	8200.168	Roustabout Services	\$ 2,207	\$ -	\$ -	\$ 2,207
	8200.164	Solids Control & Closed Loop	\$ 114,641	\$ -	\$ -	\$ 114,641



**AUTHORIZATION FOR EXPENDITURE**

	8200.162	Mancamp	\$ 46,357	\$ -	\$ -	\$ 46,357
	8200.119	Mud-Auxiliary	\$ 31,462	\$ -	\$ -	\$ 31,462
	8200.113	Damages/Row	\$ 7,894	\$ -	\$ -	\$ 7,894
	8200.149	Legal, Title, Etc	\$ 10,525	\$ -	\$ -	\$ 10,525
	8200.170	Mud-Diesel	\$ 110,871	\$ -	\$ -	\$ 110,871
<b>Intangible Completion</b>			\$ -	\$ 6,056,928	\$ -	\$ 6,056,928
	8300.279	Completions Overhead	\$ -	\$ 5,620,434	\$ -	\$ 2,808
	8300.277	Consulting Services	\$ -	\$ 5,620,434	\$ -	\$ 116,828
	8300.275	Frac - Sand	\$ -	\$ 5,620,434	\$ -	\$ 1,015,231
	8300.270	Frac - Equipment	\$ -	\$ 5,620,434	\$ -	\$ 1,692,841
	8300.250	Downhole Rental Equip	\$ -	\$ 5,620,434	\$ -	\$ 43,391
	8300.243	Analysis	\$ -	\$ 5,620,434	\$ -	\$ 9,473
	8300.214	Perforating & Plugs	\$ -	\$ 5,620,434	\$ -	\$ 390,293
	8300.210	Surface Rental Equip	\$ -	\$ 5,620,434	\$ -	\$ 305,001
	8300.273	Flowback	\$ -	\$ 5,620,434	\$ -	\$ 7,821
	8300.278	Roustabouts	\$ -	\$ 5,620,434	\$ -	\$ 1,579
	8300.207	Fresh Water	\$ -	\$ 5,620,434	\$ -	\$ 537,798
	8300.271	Coil Tubing	\$ -	\$ 5,620,434	\$ -	\$ 113,724
	8300.276	Safety & Environmental	\$ -	\$ 5,620,434	\$ -	\$ 3,473
	8300.274	Water Transfer	\$ -	\$ 5,620,434	\$ -	\$ 99,015
	8300.205	Location & Roads	\$ -	\$ 5,620,434	\$ -	\$ 5,288
	8300.229	Transportation	\$ -	\$ 5,620,434	\$ -	\$ 5,263
	8300.203	Fuel	\$ -	\$ 5,620,434	\$ -	\$ 683,704
	8300.240	Pump Down Services	\$ -	\$ 5,620,434	\$ -	\$ 101,040
	8300.209	Chemicals	\$ -	\$ 5,620,434	\$ -	\$ 419,703
	8300.232	Disposal	\$ -	\$ 5,620,434	\$ -	\$ 19,004
	8300.248	Mancamp	\$ -	\$ 5,620,434	\$ -	\$ 21,324
	8300.212	Contract Labor	\$ -	\$ 5,620,434	\$ -	\$ 10,678
	8300.220	Engineering & Supervision	\$ -	\$ 5,620,434	\$ -	\$ 15,156
	8360.845	Wellsite Supervision	\$ -	\$ 341,344	\$ -	\$ 50,400
	8360.820	Well Testing / Flowback	\$ -	\$ 341,344	\$ -	\$ 60,746
	8360.850	Safety / Environmental	\$ -	\$ 341,344	\$ -	\$ 4,400
	8360.825	Rental Equipment	\$ -	\$ 341,344	\$ -	\$ 190,000
	8360.815	Trucking/Vacuum/Transp	\$ -	\$ 341,344	\$ -	\$ 14,334
	8360.805	Trucked Water Disposal	\$ -	\$ 341,344	\$ -	\$ 21,464
	8320.621	Rental Equipment	\$ -	\$ 95,150	\$ -	\$ 15,000
	8320.628	Chemicals	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.602	Workover Rig	\$ -	\$ 95,150	\$ -	\$ 30,000
	8320.625	Wellsite Supervision	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.612	Kill Truck	\$ -	\$ 95,150	\$ -	\$ 5,000
	8320.617	Contract Labor/Roustabout	\$ -	\$ 95,150	\$ -	\$ 15,887
	8320.605	Fuel / Power	\$ -	\$ 95,150	\$ -	\$ 5,263
	8320.611	Trucking/Vacuum/Transportation	\$ -	\$ 95,150	\$ -	\$ 10,000
	8320.610	Inspection & Testing	\$ -	\$ 95,150	\$ -	\$ 4,000
<b>Intangible Facility</b>			\$ -	\$ -	\$ 664,900	\$ 664,900
	8350.411	Safety & Environmental	\$ -	\$ -	\$ 11,700	\$ 11,700
	8350.415	Engineering / Technical	\$ -	\$ -	\$ 38,700	\$ 38,700
	8350.417	Overhead Power Labor	\$ -	\$ -	\$ 24,600	\$ 24,600
	8350.422	Flowline Labor	\$ -	\$ -	\$ 35,100	\$ 35,100
	8350.420	Electrical Labor	\$ -	\$ -	\$ 61,900	\$ 61,900
	8350.413	Contingency	\$ -	\$ -	\$ 75,200	\$ 75,200
	8350.421	Commissioning	\$ -	\$ -	\$ 3,500	\$ 3,500
	8350.416	Supervision	\$ -	\$ -	\$ 29,600	\$ 29,600
	8350.410	Transportation/Trucking	\$ -	\$ -	\$ 24,500	\$ 24,500
	8350.403	Roads/Location	\$ -	\$ -	\$ 85,100	\$ 85,100
	8350.418	Mechanical Labor	\$ -	\$ -	\$ 222,500	\$ 222,500
	8350.404	Equipment Rental	\$ -	\$ -	\$ 31,000	\$ 31,000
	8350.419	Automation Labor	\$ -	\$ -	\$ 21,500	\$ 21,500
<b>TOTAL INTANGIBLE COSTS &gt;&gt;&gt;</b>			\$ 3,126,247	\$ 6,056,928	\$ 664,900	\$ 9,848,075
<b>TOTAL PROJECT COSTS &gt;&gt;&gt;</b>			\$ 3,915,867	\$ 6,659,641	\$ 1,580,000	\$ 12,155,508
			<b>Drilling</b>	<b>Completion</b>	<b>Facility</b>	<b>Total</b>

This Authority for Expenditure is based on cost estimates. Billing will reflect your proportionate share of the actual invoice costs.



**AUTHORIZATION FOR EXPENDITURE**

**JOINT INTEREST APPROVAL:**

Company: \_\_\_\_\_

Working Interest: \_\_\_\_\_

Signature: \_\_\_\_\_

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

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

## Summary of Contacts

Emerald Federal Com

#301H-#306H / #501-#516H / #601H-#606H

Avant Operating, LLC

Case Nos. 24376

Exhibit C-8



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ALL of Section 31, Township 18 South, Range 33 East, N.M.P.M., & ALL of Section 6, Township 19 South, Range 33 East,  
N.M.P.M., Lea County, New Mexico

### Summary of Contacts

- Avant retained a broker who conducted extensive title work to determine the working interest owners and other interest owners.
- Avant searched public records, phone directory, LexisNexis subscription, and various different types of internet searches.
- Avant sent well proposals starting on or around January 22, 2024.
- Avant proposed general terms of a Joint Operating Agreement (JOA) within the well proposal letters sent to working interest owners.
- Avant sent the working interest owners that requested a JOA.
- Avant had multiple communications with the uncommitted working interest owners, which I have outlined in the chart below.
- Avant's counsel sent notices of the force pooling applications to the addresses of record for the uncommitted interest owners and overriding royalty owners.
- Avant also published notice in a newspaper of general circulation in the county where the wells will be located.



## Summary of Contacts

Emerald Federal Com

#301H-#306H / #501-#516H / #601H-#606H

Avant Operating, LLC

Case Nos. 24376

Exhibit C-8



ALL of Section 31, Township 18 South, Range 33 East, N.M.P.M., & ALL of Section 6, Township 19 South, Range 33 East,  
N.M.P.M., Lea County, New Mexico

## Summary of Contacts:

Owner Name	% of Interest	Date Proposal Letter Sent	Proposal Letter Received	Follow-Up / Comments
Cibolo Oil & Gas	5.00%	1/22/2024	1/22/2024	Upon owner request, sent proposals via email. Received elections to participate on 1/26. Sent JOA via email on 2/22 upon request. Received signed JOA on 4/25.
TH McElvain Oil & Gas LLLP	2.50%	1/22/2024	1/22/2024	Sent proposals via email and USPS. Received elections to participate on 2/27. Sent JOA via email on 4/10 upon request. Received signed JOA on 4/16.
Francis H. Hudson, Trustee of Lindy's Living Trust	2.34%	2/14/2024	2/17/2024	Sent first proposals letter to last known address on 1/26 but was returned as undeliverable. Upon further research, found new address and re-sent proposals on 2/14. Emailed Will Stripling on 2/22 the trust's estimated WI/NRI in the wells. Sent follow up email regarding proposals on 4/10.
Bank of America, Trustee of the Delmar Hudson Lewis Living Trust	2.34%	1/26/2024	2/3/2024	Proposals sent via USPS on 1/26, no further communication with owner.
Josephine T. Hudson Testamentary Trust fbo J. Terrell Ard	0.52%	1/26/2024	1/29/2024	Emailed WI/NRI in the proposed wells on 2/20 to Debbie Dorsett from Frost Bank, who is trustee of this trust. Sent follow up email regarding proposals on 4/10. Negotiating deal for Avant to purchase interest.
Javelina Partners	2.08%	1/26/2024	1/29/2024	Emailed Edward Hudson on 1/30 and provided WI/NRI for proposed wells as well as verified target depths. On 4/10 sent copy of JOA via email. Spoke with Edward on the phone on 4/11 to discuss development plans. Received signed JOA on 5/6.
Zorro Partners, Ltd.	2.08%	1/26/2024	1/29/2024	Emailed Edward Hudson on 1/30 and provided WI/NRI for proposed wells as well as verified target depths. On 4/10 sent copy of JOA via email. Spoke with Edward on the phone on 4/11 to discuss development plans. Received signed JOA on 5/6.
FR Energy, LLC	7.03%	1/22/2024	1/22/2024	Sent well proposals via email and USPS. On 1/23 spoke with Aaron Tenenholz on phone to provide estimated drill schedule and WI/NRI in the proposed wells. On 2/22 sent JOA via email. Received JOA redlines on 3/20 and responded to proposed redlines on 4/10. Received signed JOA on 4/30.
Earthstone Permian, LLC	15.59%	1/26/2024	1/29/2024	Emailed Travis Macha on 2/2 to provide estimated WI/NRI in proposed wells. Sent JOA form via email on 4/10.



## Summary of Contacts

Emerald Federal Com

#301H-#306H / #501-#516H / #601H-#606H

Avant Operating, LLC

Case Nos. 24376

Exhibit C-8



ALL of Section 31, Township 18 South, Range 33 East, N.M.P.M., & ALL of Section 6, Township 19 South, Range 33 East,  
N.M.P.M., Lea County, New Mexico

## Summary of Contacts:

Owner Name	% of Interest	Date Proposal Letter Sent	Proposal Letter Received	Follow-Up / Comments
Duadav Resources, LLC	0.02%	2/28/2024	3/4/2024	Updated title report showed this owner in title rather than predecessor Duane A. David, who received proposals during first batch. Sent proposals via USPS on 2/28. No further communication with owner.
Timothy R. MacDonald	0.01%	1/26/2024	1/29/2024	Received letter from owner with updated address and request for WI calculation. Called owner on 4/11 and provided WI/NRI for proposed wells.
Maverick Oil & Gas Corp.	0.01%	1/26/2024	1/29/2024	Emailed Lisa Bulta and provided WI/NRI for proposed wells. Spoke with Bob on the phone and answered additional questions regarding development. Received elections to participate on 2/24. Sent JOA form via email on 4/10.
Magnum Hunter Production, Inc	6.25%	1/26/2024	1/29/2024	Emailed Tristan Walker on 1/30 and provided WI/NRI in proposed wells, estimated timing of development and title information. Sent JOA via email on 4/10/
Chisholm Energy Operating, Inc.	5.97%	1/26/2024	1/29/2024	Emailed Travis Macha on 2/2 to provide estimated WI/NRI in proposed wells. Sent JOA form via email on 4/10.
Roy G. Barton, Sr. and Opal Barton Revocable Trust	0.78%	2/14/2024	2/20/2024	Sent first proposals letter to last known address on 1/26 but was returned as undeliverable. Upon further research, found new address and re-sent proposals on 2/14. Received elections to participate on 2/24. Emailed Roy Barton on 2/26 to provide general information regarding development plans. Sent JOA via email on 4/10 and sent follow-up email on 4/24. Received signed JOA on 5/1.
Chisholm Energy Agent, LLC	4.96%	2/28/2024	3/4/2024	Updated title report showed this owner in title. Sent proposals via USPS and email (to Travis Macha) on 2/28. Sent JOA form on 4/10.



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

**APPLICATION OF AVANT OPERATING, LLC  
FOR COMPULSORY POOLING AND  
APPROVAL OF NON-STANDARD SPACING  
UNIT, LEA COUNTY, NEW MEXICO**

**Case No. 24376**

**AFFIDAVIT OF JOSH PAYNE**

Josh Payne, being first duly sworn upon oath, deposes and states as follows:

1. My name is Josh Payne, and I am employed by Avant Operating, LLC (“Avant”) as a Senior Geologist.

2. I have not previously testified before the New Mexico Oil Conservation Division (“Division”). I have several years of experience in petroleum geological matters, and I have worked directly or in a supervisory role with the properties that are the subject of these matters. I ask that the Division accept my credentials as those of an expert witness in petroleum geology and made a matter of record.

3. I am familiar with the application filed by Avant in this case and the geology involved.

4. I am submitting this affidavit in support of Avant’s applications in the above-referenced cases pursuant to 19.15.4.12.(A)(1) NMAC.

5. **Avant Exhibit D-1** is a base map of the lands showing the proposed Bone Spring formation spacing unit and wells.

6. **Avant Exhibit D-2** is a structure map showing the depth (subsea) to the top of the Bone Spring formation, a marker that defines the top of the target interval for the proposed wells. Contour interval of 200'. The unit being pooled is outlined in bold, and the proposed wells are

identified. The structure map shows regional down-dip to the south. I do not observe any faulting, pinchouts, or other geologic impediments to developing this target interval.

7. **Avant Exhibit D-3** is a cross section locator map that identifies wells penetrating the targeted intervals used to construct a structural cross-section from A to A'. These wells penetrate the targeted intervals, are of good quality, and are representative of the geology in the area.

8. **Avant Exhibit D-4 includes** stratigraphic cross-sections flattened on the top of each proposed Bone Spring formation. Each well in the cross-section contains a gamma ray, resistivity, and porosity log. The cross-section demonstrates continuity and consistent thickness across the target zone, and the well logs on the cross-section give a representative sample of the targeted interval. The landing zone is highlighted on the exhibit.

9. Based on the attached exhibits, I hereby conclude as follows:

a. The target formation is present and continuous throughout the lands subject to the applications.

b. The non-standard horizontal spacing and proration unit is justified from a geologic standpoint.

c. There are no structural impediments or faulting that will interfere with horizontal development.

d. Each quarter-quarter section in the unit will contribute more or less equally to production, and I can confirm each quarter section along the lateral will also contribute more or less equally to production.

e. The preferred well orientation in this area is South-North so that the wells run sub-perpendicular to the inferred orientation of the maximum horizontal stress.

10. **Exhibit D-1** through **Exhibit D-4** were prepared by me or compiled from Avant's company business records under my direct supervision.

11. The granting of these applications is in the best interest of conservation, the prevention of waste, and the protection of correlative rights, and will avoid the drilling of unnecessary wells.

12. I hereby swear that to the best of my knowledge and belief, all of the matters set forth herein and in the exhibits are true, correct, and accurate.

*[Remainder of page left intentionally blank]*

FURTHER AFFIANT SAYETH NOT.

Dated this 14 day of May, 2024.

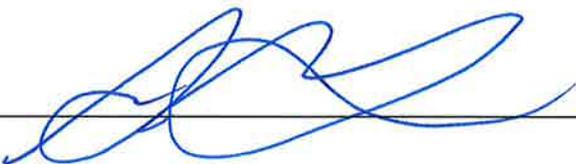
  
\_\_\_\_\_  
Josh Payne  
Avant Operating, LLC

STATE OF COLORADO            )  
  ) ss.  
CITY OF DENVER                 )

The foregoing instrument was subscribed and sworn to before me this 14th day of May, 2024, by Josh Payne, Senior Geologist for Avant Operating, LLC.

Witness my hand and official seal.

My commission expires: 9/14/27

  
\_\_\_\_\_

Sophia Guerra  
NOTARY PUBLIC  
STATE OF COLORADO  
NOTARY ID# 20194020815  
MY COMMISSION EXPIRES 9/14/2027

## Joshua Payne

213 Birdsall St ♦ Houston, TX 77007 ♦ 281-772-3779 ♦ joshuapayne@mines.edu

### Education

Colorado School of Mines, Golden, CO	December 2017
Master of Science in Geology, Mudrock & Tight Oil Research Consortium (MudTOC)	GPA: 4.0
Texas A&M University, College Station, TX	Fall 2015
Continued Graduate Level Education	GPA: 4.0
Bachelor of Science in Geology	December 2014
	GPA: 3.4

### Professional Experience

Experienced geoscientist with expertise in unconventional petroleum exploration and development. In my 6+ years of experience I have conducted regional exploration projects and planned and drilled over 250 wells in the Permian Basin. I specialize in understanding the varying elements of the petroleum system at the local and regional level and having the ability to communicate clearly and effectively the subsurface to a range of audiences. I have strived to develop understanding of all multidisciplinary aspects of the business from well conception to sales to become a more well-rounded businessperson and effective team member. I am intentional about sharing ideas and working with others to cultivate and maximize business value. During my time as a project geologist, I successfully proposed over \$2 billion in well packages across the Delaware Basin.

#### Guggenheim Partners, Houston, TX July 2023 – Present

Associate, Energy Division

- Collaborated with senior team members in the execution of M&A transactions, buy and sell-side client pitches, managing due diligence, valuations, synergies, negotiation, and overall deal management.
- Contributed to the development of client pitchbooks and presentations, showcasing technical analysis and valuations.
- Worked collaboratively with cross-functional teams including finance, legal, and others to streamline processes and help deliver client commitments.
- Basin wide analysis of major unconventional basins across the USA. Utilizing Enverus and public data to create basin books to aide in hastily pulling together client pitches. Books contained geological model, maps, cross-sections, type curve areas, inventory remaining and other associated information.

#### M.P. Rental & Fishing Services LLC, Houston, TX November 2019 – Present

Chief Operations Officer, All Regions

- Manage multiple aspects of a small oilfield services company. Responsible for managing internal and external operations, streamlining company processes, budgeting, logistics, project delivery and overall company strategy.

#### ExxonMobil / XTO Energy, Houston, TX March 2019 – November 2022

Project Geologist, Permian Delaware Basin

- Worked within an interdisciplinary team to plan and execute unconventional exploration and development in NM. Drilled 100+ wells in Poker Lake, Remuda, Nash and Big Eddy Units in the Avalon Shale, Second Bone Spring Sand, Third Bone Spring Shale, Harkey Sand, Third Bone Spring Sand, and Wolfcamp units. Project Geologist for Big Eddy Unit, Poker Lake Unit, and other acreage areas across Eddy and Lea County, NM.
- Project lead for Bone Spring delineation, PLU. Resulting in approved \$300M+ execution project spanning 3 different development areas, 27 wells, multiple data collection methods and 4 horizontal monitor wells.
- Project co-lead for Delaware Basin Cube Development project in 2022, a test to re-analyze our spacing/stacking approach across Bone Spring and Wolfcamp, resulting in approved \$250M+ well package and data collection proposal.
- Rig schedule co-coordinator between technical, ops, regulatory and planning teams 2021-2022.
- Project co-lead for regional formation assessments, NM Delaware Basin (WFMP-2nd Bone Spring). Hand contoured regional maps across target formations including thickness, net pay, saturation, HPV, and OOIP maps.
- Created template for first drill unit / well package proposal for the Delaware Basin technical teams to use for all future well proposals. Created template for post drill reports in Eddy Co., project compiled end of well reports that included package overview, geological analysis, learnings, and key drilling metrics for each well. Templates used as standard across all Delaware Basing business units.
- Worked with technical team to evaluate and make recommendations for OBO proposals in and around the Big Eddy Unit, including historical vertical wells
- Big Eddy Unit Wolfcamp Project: correlated and tied Wolfcamp stratigraphy from Northwest Shelf through Big Eddy Unit to create a uniform framework across Eddy County units.

#### EOG Resources, Midland, TX Summer 2017, January 2018 – March 2019

Project Geologist, Permian Basin, New Mexico Development Team

- Worked within an interdisciplinary team to execute unconventional exploration and development in Lea Co., NM. Project geologist for 15,000+ acres.

- Planned and drilled over 75 wells in southern Lea Co. Red Hills region. Oversaw as many as 9 rigs in development area at a time, averaging 2-4 consistently. Planned and drilled wells in the deeper WFMP, WFMP X and Y Sands, 3<sup>rd</sup> – 1<sup>st</sup> Bone Spring Sands and Shales and Avalon/Leonard formations. Some of which produced > 5,000 bbl/day IP.
- Developed understanding of the regulatory landscape and challenges that operators must navigate in the Delaware Basin. Submitted sundries and well package changes based on real time production data or other needs when necessary to optimize package performance, cut costs and meet company needs.
- Basin scale log correlation of stratigraphic column to identify and map best drilling targets and optimize development. Integrated available datasets including well logs, core, seismic, pressure, production data to characterize, understand, and continuously improve upon the working model for development area.
- Collaborated with operations geology team from planning stages to completion to ensure correct wellbore placement, high in-zone drilling percentage and risk mitigation.
- Collaborated with Midland Completions engineer and production team to propose test which led to 25% production uplift, eventually utilized across entire Midland Division and across other active basins within the company.
- Emphasized continuous learning and consideration of commercial/economic factors of development and production on a well by well and multi-well package basis across Red Hills development and all DB operated acreage to fully understand the value of individual wells, well packages, and where they fit inside a greater portfolio.
- Presented on a weekly basis to management team for well location, pattern, and completion design approval. Presented multiple posters to executives detailing projects across Red Hills at quarterly meetings.
- Conducted a regional exploration project on an unconventional prospect on the Central Basin Platform, Permian Basin. Used well control, seismic and OBO data to denote premium acreage and tier 1, 2 and 3 play areas for acquisition.

**Colorado School of Mines, Golden, CO** **Spring 2015, Fall 2016 - Fall 2017**

**Research Assistant, Mudrock & Tight Oil Research Consortium (MudTOC)**

- Thesis: Geologic Characterization of the Wall Creek Member of the Frontier Formation, Powder River Basin, Wyoming
- Graduate Teaching Assistant, Geology and Geological Engineering 101**

**Denbury Resources, Plano, TX** **Summer 2015, 2016**

**Development Geologist/Intern, Reservoir Management Team**

- Executed a geological and economical assessment of several units for future CO<sub>2</sub> development using a deterministic and probabilistic P10-P50-P90 approach.
- Ranked as top or highest performing intern out of 30+ summer interns.

**Design & Development Geologist/Intern, Development Team**

- Executed a regional geological assessment of Miocene sands with an emphasis on Hasting's oil field.
- Provided fault juxtaposition and cross sections to aid in strategic future development of the field.

**Texas A&M University, College Station, TX** **Fall 2015**

- Graduate Teaching Assistant, Igneous & Metamorphic Petrology, Geology 101

**Geostock US, Houston, TX** **Summer 2014 / Spring 2015**

**Geologist/Geotech Intern**

- Provided support to Geological and Geophysical group, tasks included well log correlation, mapping, and data assessment.

**Personal Development & Certifications**

**SIE – FINRA Securities Industry Exam** **2023**

**Series 79 - FINRA investment Banking Representative Exam**

**The Accountant Skills Certificate – Financial Edge Training**

**The Modeler Skills Certificate – Financial Edge Training**

**The Investment Banker Micro Degree – Financial Edge Training**

**Association of Petroleum Geologists (AAPG) Student Chapter, President** **Fall 2016 - Spring 2017**

Chapter awarded 'Outstanding Domestic Chapter of the Year, 2017'

**Outback University**

Coordinated the establishment of a weekend outreach event for over 200 college students/adults. Tasks included fundraising of \$35,000+, speaking at formal meetings, marketing outreach, and leading a team of 60-80 college and adult volunteers.

**International Wilderness Leadership School, Haines Alaska** **Summer 2010**

Completed 30-day leadership and guide training course specializing in mountaineering and sea kayaking. Earned 5 college credit hours.

**TAMU Men's Soccer Club, Vice President** **Fall 2010 – Fall 2012**

**Aircraft Owners and Pilots Association (AOPA), Member** **April 2013 - Present**

**Young Life, Volunteer leader and mentor, Cypress TX, Golden CO** **2012 - Present**

**Honors/Awards**

Nominated for USGS/NAGT Summer Internship Program by Dr. Pope and Dr. Miller of School of G&G of Texas A&M for as 'Top Field Camp Performer'.

# Regional Locator Map

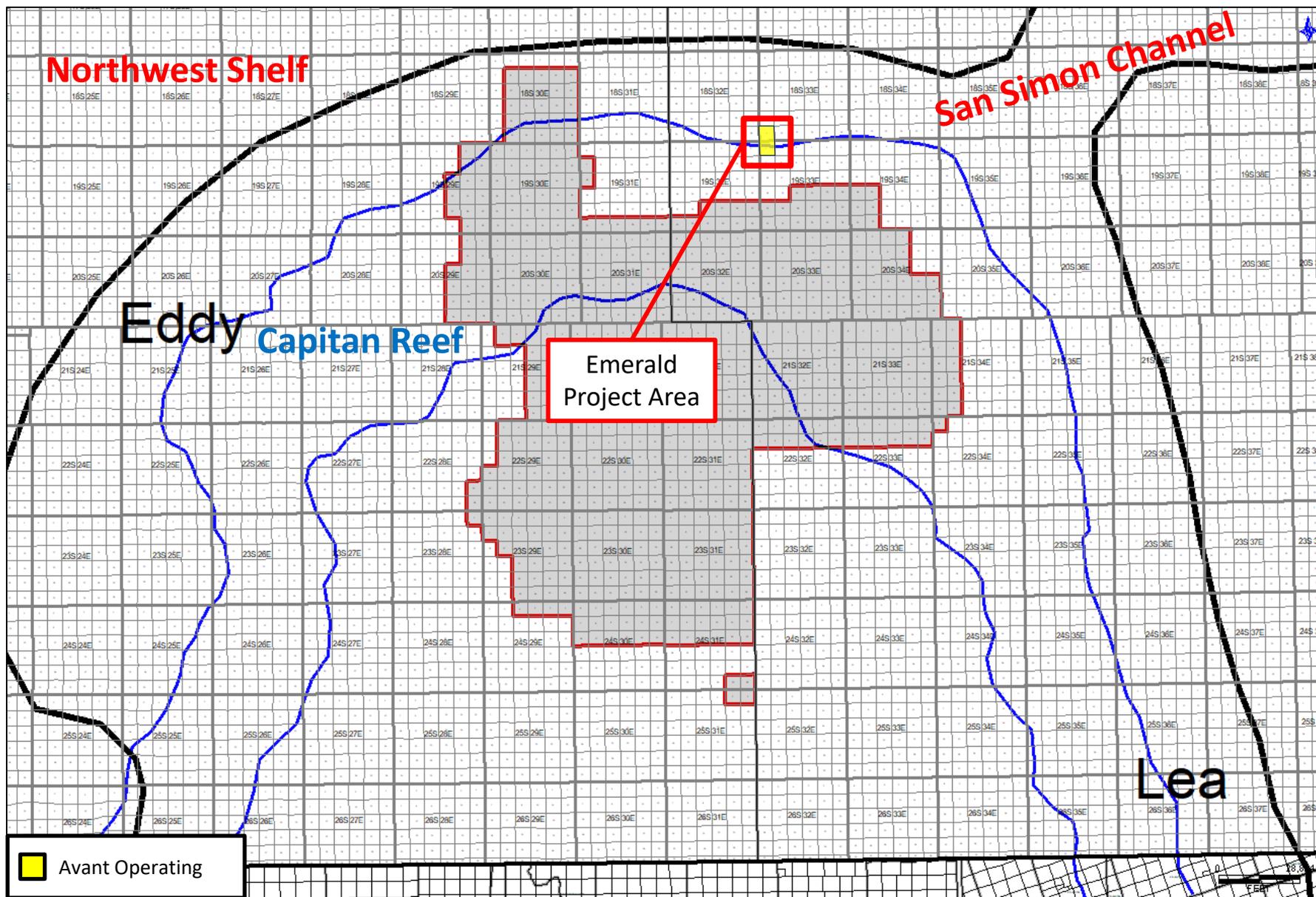
Emerald Federal Com

#301H-#306H / #501H-#516H / #601H-#606H

Avant Operating, LLC

Case Nos. 24375

Exhibit D-1



# Base Bone Spring Structure Map (TVDss)

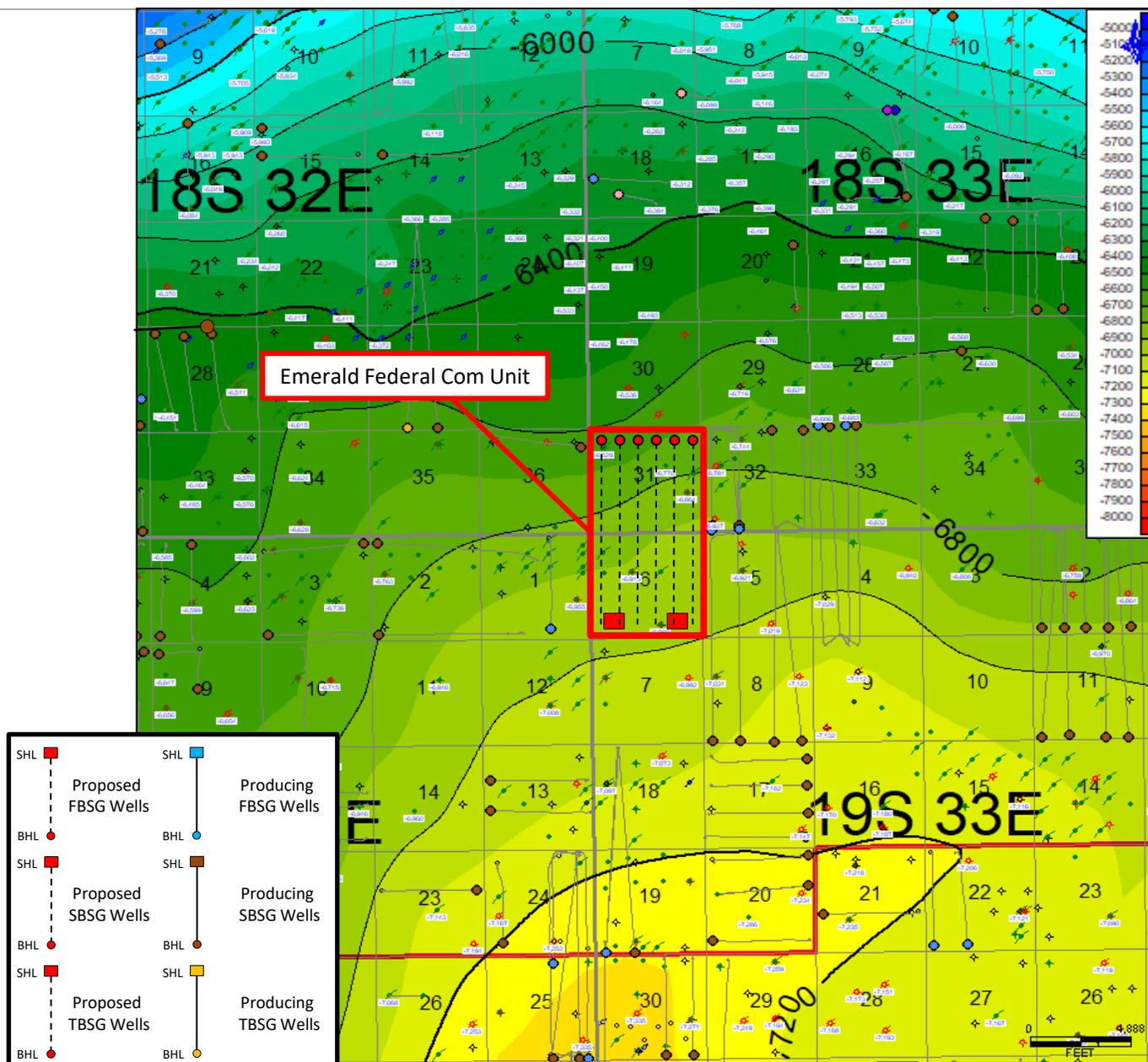
Emerald Federal Com

#301H-#306H / #501H-#516H / #601H-#606H

Avant Operating, LLC

Case Nos. 24375

Exhibit D-2



# Cross-Section Locator Map

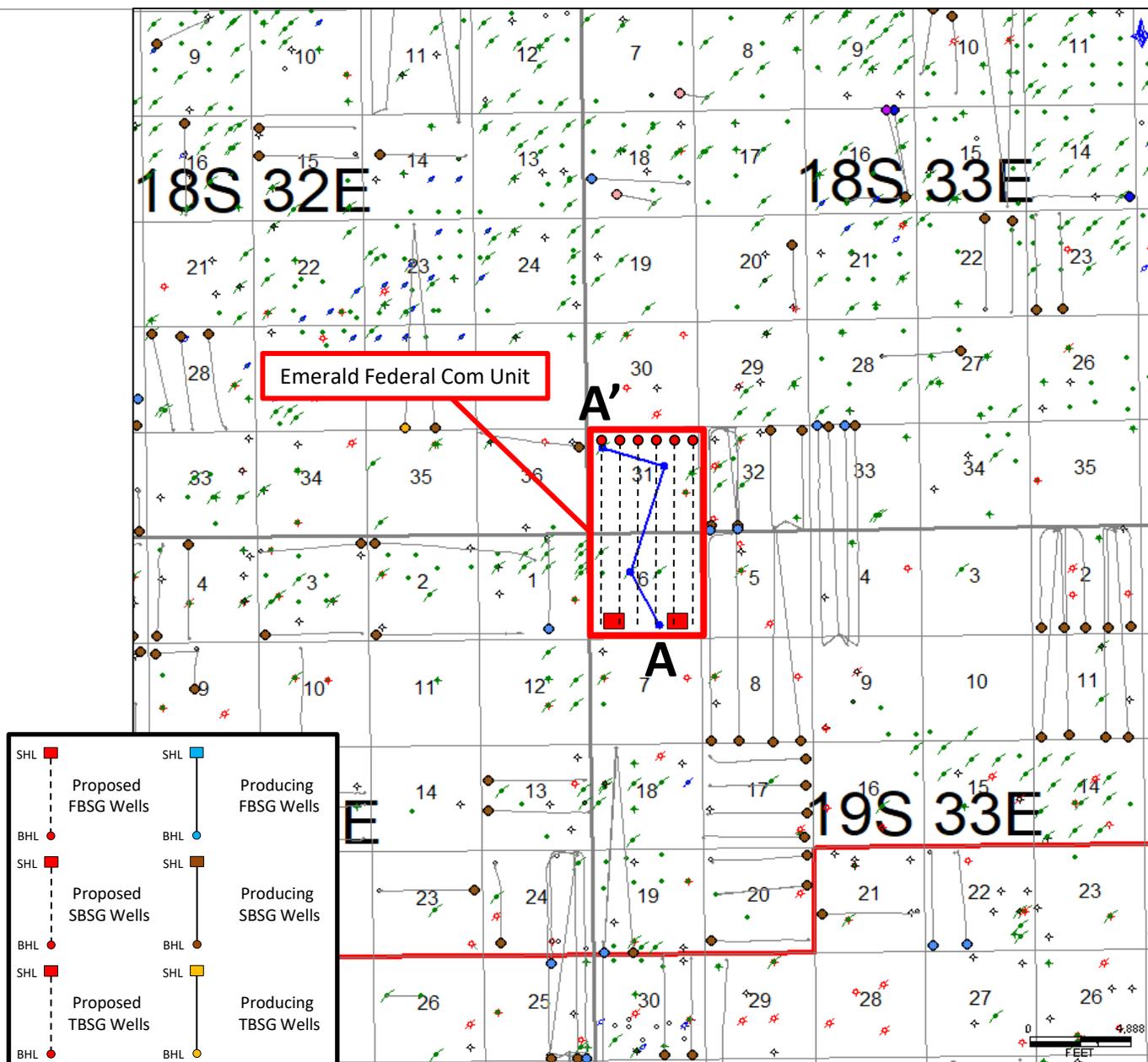
Emerald Federal Com

#301H-#306H / #501H-#516H / #601H-#606H

Avant Operating, LLC

Case Nos. 24375

Exhibit D-3



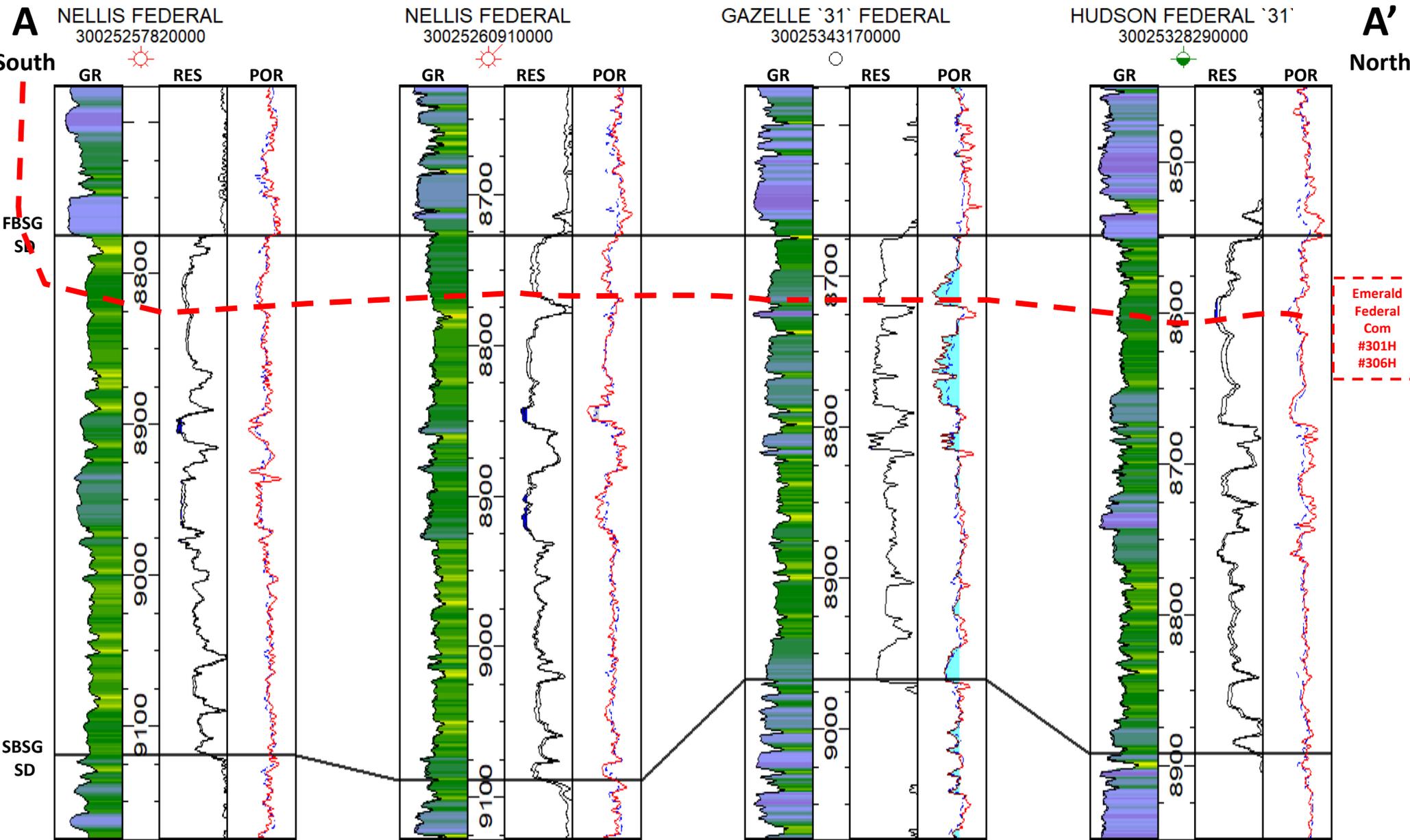
# Stratigraphic Cross-Section A-A'

Emerald Federal Com #301H-#306H

Avant Operating, LLC

Case Nos. 24375

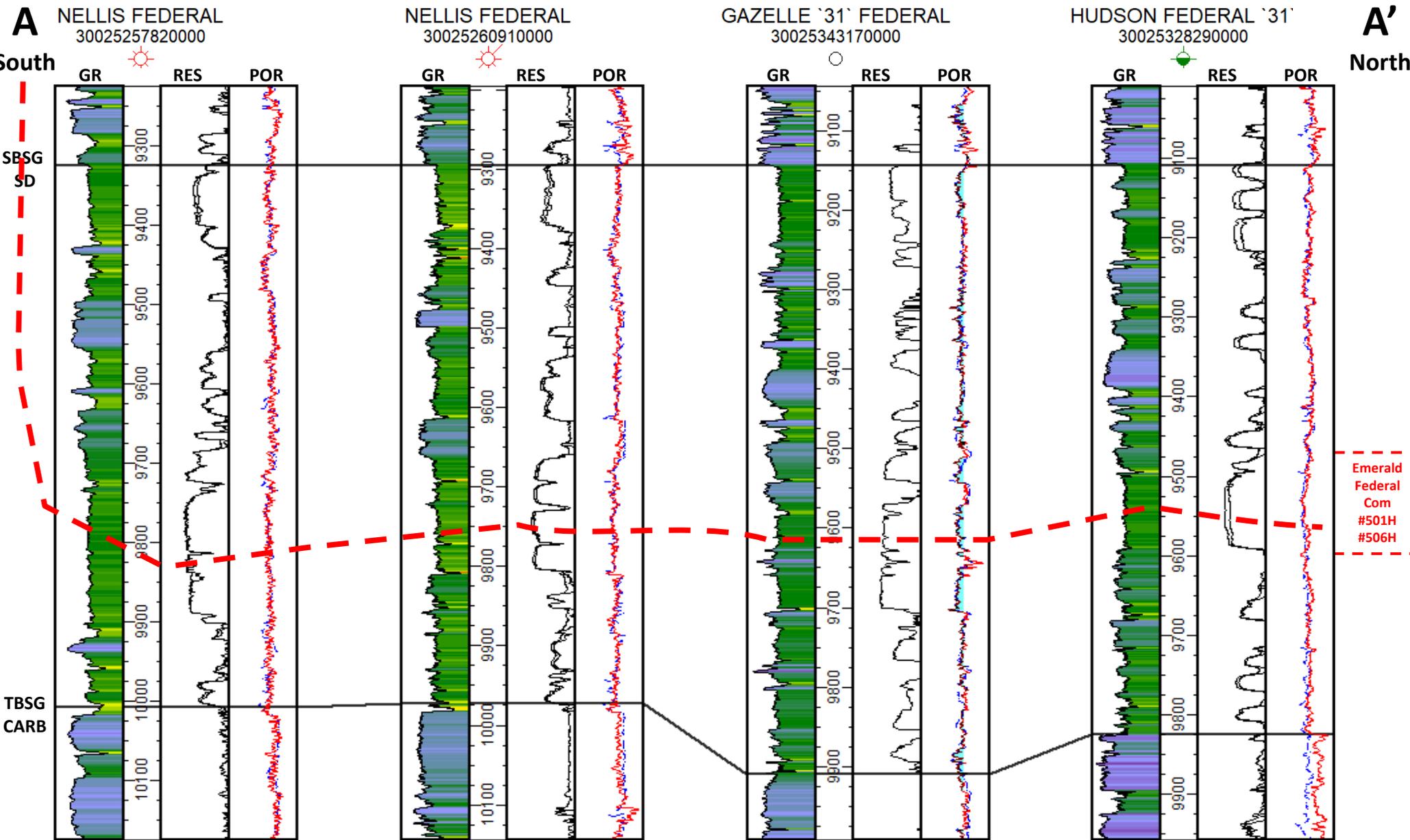
Exhibit D-4



# Stratigraphic Cross-Section A-A'

Emerald Federal Com #501H/#502H & #513H-#516H

Avant Operating, LLC  
Case Nos. 24375  
Exhibit D-4



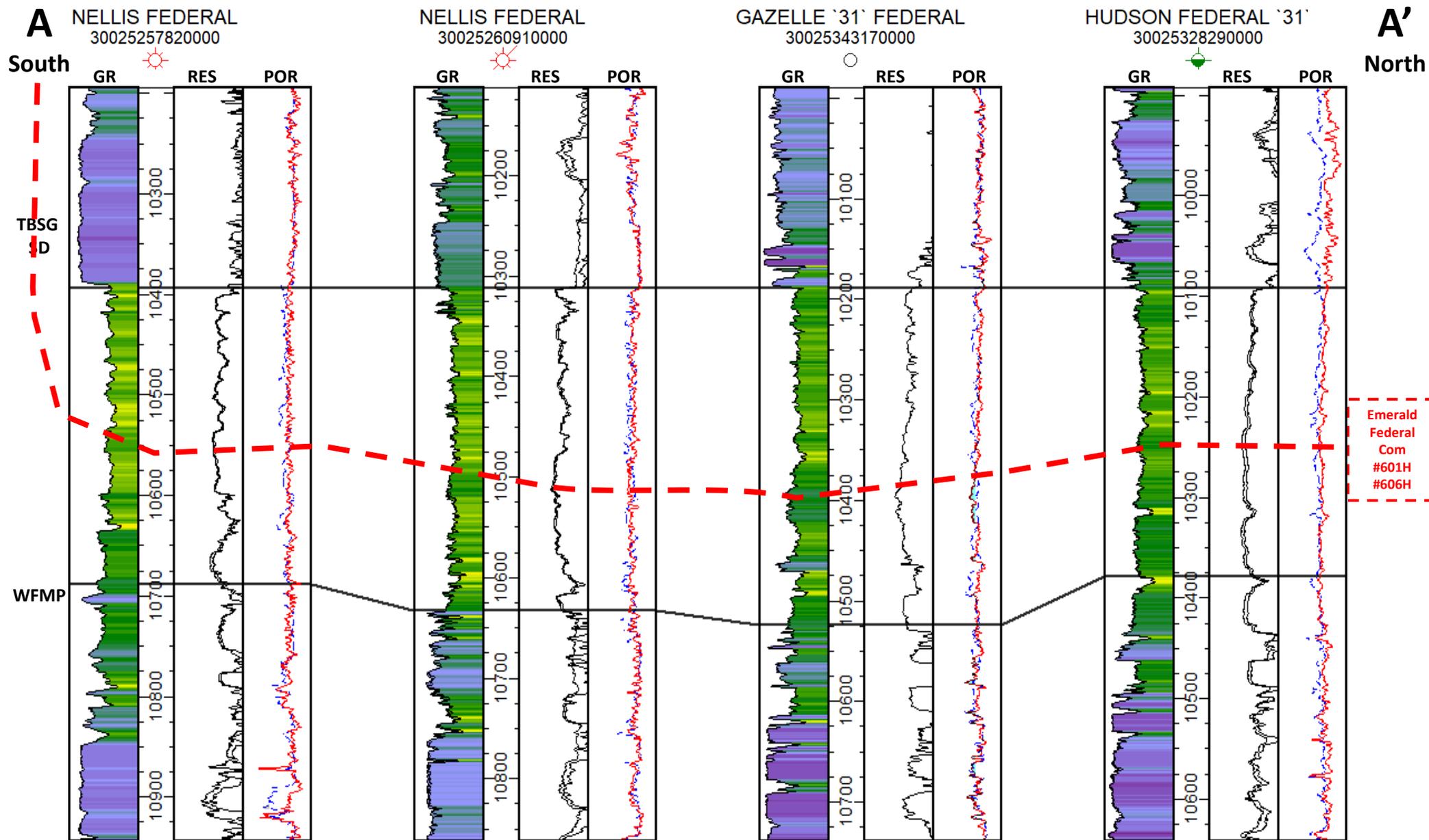
# Stratigraphic Cross-Section A-A'

Emerald Federal Com #601H-#606H

Avant Operating, LLC

Case Nos. 24375

Exhibit D-4



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

APPLICATION OF AVANT OPERATING, LLC FOR  
COMPULSORY POOLING AND APPROVAL OF  
NON-STANDARD SPACING UNIT, LEA COUNTY,  
NEW MEXICO

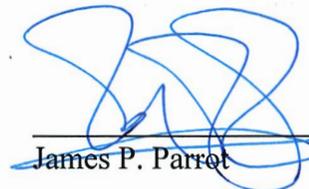
CASE NO. 24376

AFFIDAVIT

STATE OF COLORADO )  
 ) ss.  
CITY AND COUNTY OF DENVER )

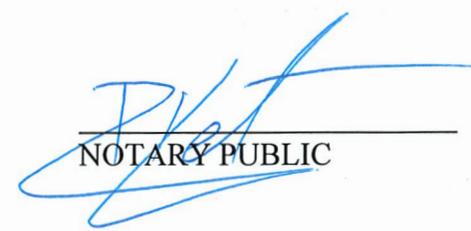
James P. Parrot, attorney in fact and authorized representative of Avant Operating, LLC ("Avant"), the Applicant herein, being first duly sworn, upon oath, states that the above-referenced Application has been provided under Notice Letters dated April 3, 2024, April 8, 2024, and April 17, 2024, which the Applicant mailed via U.S. Postal Service Certified Mail. Notice was delivered to the interested parties on or about April 7, 2024, April 12, 2024, and April 20, 2024, as shown on certified mail receipts attached as Exhibit E.

Applicant also published notice of the Application in the Hobbs Daily News-Sun on April 10, 2024. Proof of receipts is shown on Exhibit F.

  
James P. Parrot

SUBSCRIBED AND SWORN to before me on May 14, 2024 by James P. Parrot.

My commission expires: 01/03/2026

  
NOTARY PUBLIC

RACHAEL KETCHLEDGE  
NOTARY PUBLIC  
STATE OF COLORADO  
NOTARY ID 20224000204  
MY COMMISSION EXPIRES JANUARY 3, 2026

**BEATTY & WOZNIAK, P.C.**

ATTORNEYS AT LAW  
1675 BROADWAY, SUITE 600  
DENVER, CO 80202  
TELEPHONE 303-407-4499  
FAX 1-800-886-6566  
www.bwenergylaw.com

OFFICE LOCATIONS  
COLORADO  
NEW MEXICO  
TEXAS  
WYOMING

JAMES P. PARROT

(303) 407-4458  
JPARROT@BWENERGYLAW.COM

April 3, 2024

VIA CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

TO: ALL INTEREST OWNERS SUBJECT TO SPACING AND POOLING PROCEEDINGS

Re: Application of Avant Operating LLC for Compulsory Pooling and Approval of Non-Standard Spacing Unit in Lea County Compulsory Pooling in Lea County, New Mexico (Case No. 24376)

Dear Interest Owners:

This letter is to advise you that Avant Operating LLC (“Avant”) has filed the enclosed application, Case No. 24376, with the New Mexico Oil Conservation Division for Compulsory Pooling and Approval of Non-Standard Spacing Unit in Lea County, New Mexico.

In Case No. 24376, Avant seeks an Order from the Division to: (1) create a non-standard 1,280-acre, more or less, spacing and proration unit composed of all Section 31, Township 18 South, Range 33 East, NMP.M. and all of Section 6, Township 19 South, Range 33 East, N.M.P.M., Lea County, New Mexico; and (2) to pool all uncommitted mineral interests in the Bone Spring formation, designated as an oil pool, underlying said unit.

A hearing has been requested before a Division Examiner on May 2, 2024, and the status of the hearing can be monitored through the Division’s website. Division hearings will commence at 8:15 a.m. and will be conducted in a hybrid fashion, both in-person at the Energy, Minerals, Natural Resources Department, Wendell Chino Building, Pecos Hall, 1220 South St. Francis Drive, 1st Floor, Santa Fe, NM 87505 and via the WebEx virtual meeting platform. To view the hearing docket and to determine how to participate in the electronic hearing, visit the Division’s website at: <https://www.emnrd.nm.gov/ocd/hearing-info/> or call (505) 476-3441.

You are being notified as an interest owner and are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from contesting the matter at a later date.

Parties appearing in cases who intend to present evidence are required by Division Rule 19.15.4.13.B NMAC to file a Prehearing Statement at least four business days in advance of a

**BEATTY & WOZNIAK, P.C.**

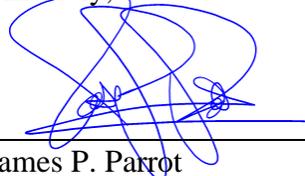
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April 3, 2024  
Case No. 24376  
Page 2

scheduled hearing, but in no event later than 5 p.m. mountain time on the Thursday preceding the scheduled hearing date. This statement must be submitted through the OCD E-Permitting system (<https://wwwapps.emnrd.nm.gov/ocd/ocdpermitting/>) or via e-mail to [ocd.hearings@emnrd.nm.gov](mailto:ocd.hearings@emnrd.nm.gov) should include: the names of the parties and their attorneys; a concise statement of the case; the names of all 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 are to be resolved prior to the hearing. The statement must also be provided to the attorney for the applicant, James P. Parrot at [jparrot@bwenergylaw.com](mailto:jparrot@bwenergylaw.com).

If you have any questions about this matter, please contact Sophia Guerra at (303) 519-2870 or at [sophia@avantnr.com](mailto:sophia@avantnr.com).

Sincerely,



---

James P. Parrot

*Attorney for Avant Operating, LLC*

**BEATTY & WOZNIAK, P.C.**

ATTORNEYS AT LAW  
1675 BROADWAY, SUITE 600  
DENVER, CO 80202  
TELEPHONE 303-407-4499  
FAX 1-800-886-6566  
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OFFICE LOCATIONS  
COLORADO  
NEW MEXICO  
TEXAS  
WYOMING

JAMES P. PARROT

(303) 407-4458  
JPARROT@BWENERGYLAW.COM

April 8, 2024

VIA CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

TO: ALL INTEREST OWNERS SUBJECT TO SPACING AND POOLING PROCEEDINGS

Re: Application of Avant Operating LLC for Compulsory Pooling and Approval of Non-Standard Spacing Unit in Lea County Compulsory Pooling in Lea County, New Mexico (Case No. 24376)

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**BEATTY & WOZNIAK, P.C.**

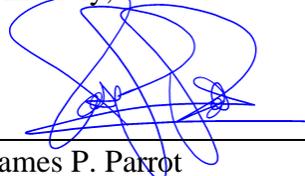
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April 3, 2024  
Case No. 24376  
Page 2

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Sincerely,



---

James P. Parrot

*Attorney for Avant Operating, LLC*

**BEATTY & WOZNIAK, P.C.**

ATTORNEYS AT LAW  
1675 BROADWAY, SUITE 600  
DENVER, CO 80202  
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NEW MEXICO  
TEXAS  
WYOMING

JAMES P. PARROT

(303) 407-4458  
JPARROT@BWENERGYLAW.COM

April 17, 2024

VIA CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

TO: ALL INTEREST OWNERS SUBJECT TO SPACING AND POOLING PROCEEDINGS

Re: Application of Avant Operating LLC for Compulsory Pooling and Approval of Non-Standard Spacing Unit in Lea County Compulsory Pooling in Lea County, New Mexico (Case No. 24376)

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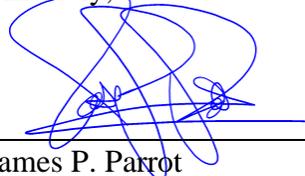
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April 3, 2024  
Case No. 24376  
Page 2

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If you have any questions about this matter, please contact Sophia Guerra at (303) 519-2870 or at [sophia@avantnr.com](mailto:sophia@avantnr.com).

Sincerely,



---

James P. Parrot

*Attorney for Avant Operating, LLC*

## 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:

1809.0005

Edward R Hudson Trust  
616 Texas St.  
Ft. Worth, Texas 76102



9590 9402 8474 3186 5355 21

2. Article Number (Transfer from service label)

9589 0710 5270 0949 9776 97

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Corri Cumming*  Agent  
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

APR 23 2024

BY: .....

3. Service Type

- Adult Signature  Priority Mail Express®  
 Adult Signature Restricted Delivery  Registered Mail™  
 Certified Mail®  Registered Mail Restricted Delivery  
 Certified Mail Restricted Delivery  Signature Confirmation™  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  Insured Mail

Mail Restricted Delivery  
(0)

## SENDER: COMPLETE THIS SECTION

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1. Article Addressed to:

1809.0005

Iverson S J Trust  
PO Box 2546  
Fort Worth, TX 76113



9590 9402 8474 3186 5355 07

2. Article Number (Transfer from service label)

9589 0710 5270 0949 9777 12

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Steve Cabeen*  Agent  
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

4/23/24

3. Service Type

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 Adult Signature Restricted Delivery  Registered Mail™  
 Certified Mail®  Registered Mail Restricted Delivery  
 Certified Mail Restricted Delivery  Signature Confirmation™  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  Insured Mail

Mail Restricted Delivery  
(0)

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1. Article Addressed to:

1809.0005

COG Operating LLC  
600 W Illinois Ave  
Midland, TX 79701



9590 9402 8474 3186 5355 45

2. Article Number (Transfer from service label)

9589 0710 5270 0949 9776 75

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *David Williams*  Agent  
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

4-22

3. Service Type

- Adult Signature  Priority Mail Express®  
 Adult Signature Restricted Delivery  Registered Mail™  
 Certified Mail®  Registered Mail Restricted Delivery  
 Certified Mail Restricted Delivery  Signature Confirmation™  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  Insured Mail

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1. Article Addressed to:

1809.0005

Upland Production Co  
PO Box 481  
Midland, TX 79702



9590 9402 8474 3186 5355 76

2. Article Number (Transfer from service label)

9589 0710 5270 0949 9776 44

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Ramon Hernandez*  Agent  
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

5-1-24

3. Service Type

- Adult Signature  Priority Mail Express®  
 Adult Signature Restricted Delivery  Registered Mail™  
 Certified Mail®  Registered Mail Restricted Delivery  
 Certified Mail Restricted Delivery  Signature Confirmation™  
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Mail Restricted Delivery  
(0)

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1. Article Addressed to:

1809.0005

XTO Holdings LLC  
22777 Springwoods Village Pkwy  
Spring, TX 77389



9590 9402 8474 3186 5355 83

2. Article Number (Transfer from service label)

9589 0710 5270 0949 9776 37

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt

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X *[Signature]*  Agent  
 Addressee

B. Received by (Printed Name)

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If YES, enter delivery address below:  No

3. Service Type

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 Adult Signature Restricted Delivery  Registered Mail™  
 Certified Mail®  Registered Mail Restricted Delivery  
 Certified Mail Restricted Delivery  Signature Confirmation™  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  Insured Mail

Mail Restricted Delivery  
(0)

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1. Article Addressed to:

1809.0005

EOG Resources  
PO Box 4362  
Houston, TX 77210



9590 9402 8474 3186 5354 46

2. Article Number (Transfer from service label)

9589 0710 5270 0949 9777 74

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt

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A. Signature

X *[Signature]*  Agent  
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

4-25-24

3. Service Type

- Adult Signature  Priority Mail Express®  
 Adult Signature Restricted Delivery  Registered Mail™  
 Certified Mail®  Registered Mail Restricted Delivery  
 Certified Mail Restricted Delivery  Signature Confirmation™  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  Insured Mail

Mail Restricted Delivery  
(0)

Received by: 5/14/2024 3:01:41 PM

Page 147 of 1

## 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:

1809.0005

BTA Oil Producers, LLC  
104 S Pecos St  
Midland, TX 79701



9590 9402 8474 3186 5354 77

2. Article Number (Transfer from service label)

9589 0710 5270 0949 9777 43

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*

- 
- Agent
- 
- 
- Addressee

B. Received by (Printed Name)

*[Signature]*

C. Date of Delivery

4/24/24

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- 
- Adult Signature
- 
- 
- Adult Signature Restricted Delivery
- 
- 
- Certified Mail®
- 
- 
- Certified Mail Restricted Delivery
- 
- 
- Collect on Delivery
- 
- 
- Collect on Delivery Restricted Delivery
- 
- 
- Registered Mail™
- 
- 
- Registered Mail Restricted Delivery
- 
- 
- Signature Confirmation™
- 
- 
- Signature Confirmation Restricted Delivery

 Priority Mail Express® Registered Mail™ Registered Mail Restricted Delivery Signature Confirmation™ Signature Confirmation Restricted Delivery Mail Restricted Delivery Mail Restricted Delivery Mail Restricted Delivery Mail Restricted Delivery

## 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:

1809.0005

ConocoPhillips Company  
PO Box 2197  
Houston, TX 77252



9590 9402 8474 3186 5354 53

2. Article Number (Transfer from service label)

9589 0710 5270 0949 9777 67

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*

- 
- Agent
- 
- 
- Addressee

B. Received by (Printed Name)

*[Signature]*

C. Date of Delivery

4/25/24

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- 
- Adult Signature
- 
- 
- Adult Signature Restricted Delivery
- 
- 
- Certified Mail®
- 
- 
- Certified Mail Restricted Delivery
- 
- 
- Collect on Delivery
- 
- 
- Collect on Delivery Restricted Delivery
- 
- 
- Registered Mail™
- 
- 
- Registered Mail Restricted Delivery
- 
- 
- Signature Confirmation™
- 
- 
- Signature Confirmation Restricted Delivery

 Priority Mail Express® Registered Mail™ Registered Mail Restricted Delivery Signature Confirmation™ Signature Confirmation Restricted Delivery Mail Restricted Delivery Mail Restricted Delivery Mail Restricted Delivery Mail Restricted Delivery

## 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:

1809.0005

Hanaco, LLC  
PO Box 746  
Big Horn, Wyoming 82833



9590 9402 8474 3186 5334 04

2. Article Number (Transfer from service label)

9589 0710 5270 0749 9057 62

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*

- 
- Agent
- 
- 
- Addressee

B. Received by (Printed Name)

*[Signature]*

C. Date of Delivery

4/25/24

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- 
- Adult Signature
- 
- 
- Adult Signature Restricted Delivery
- 
- 
- Certified Mail®
- 
- 
- Certified Mail Restricted Delivery
- 
- 
- Collect on Delivery
- 
- 
- Collect on Delivery Restricted Delivery
- 
- 
- Registered Mail™
- 
- 
- Registered Mail Restricted Delivery
- 
- 
- Signature Confirmation™
- 
- 
- Signature Confirmation Restricted Delivery

 Priority Mail Express® Registered Mail™ Registered Mail Restricted Delivery Signature Confirmation™ Signature Confirmation Restricted Delivery Mail Restricted Delivery Mail Restricted Delivery Mail Restricted Delivery Mail Restricted Delivery

## 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:

1809.0005

Occidental Permian LP  
5 Greenway Plaza, Suite 110  
Houston, TX 77046



9590 9402 8474 3186 5355 38

2. Article Number (Transfer from service label)

9589 0710 5270 0949 9776 82

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*

- 
- Agent
- 
- 
- Addressee

B. Received by (Printed Name)

*[Signature]*

C. Date of Delivery

4/25/24

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- 
- Adult Signature
- 
- 
- Adult Signature Restricted Delivery
- 
- 
- Certified Mail®
- 
- 
- Certified Mail Restricted Delivery
- 
- 
- Collect on Delivery
- 
- 
- Collect on Delivery Restricted Delivery
- 
- 
- Registered Mail™
- 
- 
- Registered Mail Restricted Delivery
- 
- 
- Signature Confirmation™
- 
- 
- Signature Confirmation Restricted Delivery

 Priority Mail Express® Registered Mail™ Registered Mail Restricted Delivery Signature Confirmation™ Signature Confirmation Restricted Delivery Mail Restricted Delivery Mail Restricted Delivery Mail Restricted Delivery Mail Restricted Delivery

## 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:

1809.0005

Special Energy Corp  
PO Box 369  
Stillwater, OK 74076



9590 9402 8474 3186 5354 15

2. Article Number (Transfer from service label)

9589 0710 5270 0949 9775 14

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*

- 
- Agent
- 
- 
- Addressee

B. Received by (Printed Name)

*[Signature]*

C. Date of Delivery

4/24/24

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- 
- Adult Signature
- 
- 
- Adult Signature Restricted Delivery
- 
- 
- Certified Mail®
- 
- 
- Certified Mail Restricted Delivery
- 
- 
- Collect on Delivery
- 
- 
- Collect on Delivery Restricted Delivery
- 
- 
- Registered Mail™
- 
- 
- Registered Mail Restricted Delivery
- 
- 
- Signature Confirmation™
- 
- 
- Signature Confirmation Restricted Delivery

 Priority Mail Express® Registered Mail™ Registered Mail Restricted Delivery Signature Confirmation™ Signature Confirmation Restricted Delivery Mail Restricted Delivery Mail Restricted Delivery Mail Restricted Delivery Mail Restricted Delivery

## 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:

1809.0005

French Land & Cattle LTD  
PO Box 11327  
Midland, TX 79702



9590 9402 8474 3186 5354 84

2. Article Number (Transfer from service label)

9589 0710 5270 0949 9777 36

PS Form 3811, July 2020 PSN 7530-02-000-9053

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*

- 
- Agent
- 
- 
- Addressee

B. Received by (Printed Name)

*[Signature]*

C. Date of Delivery

4/23/24

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- 
- Adult Signature
- 
- 
- Adult Signature Restricted Delivery
- 
- 
- Certified Mail®
- 
- 
- Certified Mail Restricted Delivery
- 
- 
- Collect on Delivery
- 
- 
- Collect on Delivery Restricted Delivery
- 
- 
- Registered Mail™
- 
- 
- Registered Mail Restricted Delivery
- 
- 
- Signature Confirmation™
- 
- 
- Signature Confirmation Restricted Delivery

 Priority Mail Express® Registered Mail™ Registered Mail Restricted Delivery Signature Confirmation™ Signature Confirmation Restricted Delivery Mail Restricted Delivery Mail Restricted Delivery Mail Restricted Delivery Mail Restricted Delivery

Received by PO# 5142024 3:01:4 PM

Page 148 of 10

**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:

1809.0005

Matador Resources  
One Lincoln Centre  
5400 LBJ Freeway, Ste 1500  
Dallas, TX 75240



9590 9402 8474 3186 5354 22

2. Article Number (Transfer from service label)  
9589 0710 5270 0949 9777 98

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
X *[Signature]*  Agent  Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type  Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restricted Delivery  
 Certified Mail®  Signature Confirmation™  
 Certified Mail Restricted Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 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:

1809.0005

M W Iverson Trust  
PO Box 2546  
Fort Worth, TX 76113



9590 9402 8474 3186 5355 14

2. Article Number (Transfer from service label)  
9589 0710 5270 0949 9777 05

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
X *[Signature]*  Agent  Addressee

B. Received by (Printed Name) C. Date of Delivery  
Steve Cabeen 4/23/24

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type  Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restricted Delivery  
 Certified Mail®  Signature Confirmation™  
 Certified Mail Restricted Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 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:

1809.0005

Hanagan Investment, LLC  
PO Box 1737  
Roswell, New Mexico 88202



9590 9402 8474 3186 5334 11

2. Article Number (Transfer from service label)  
9589 0710 5270 0749 9057 55

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
X *[Signature]*  Agent  Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

APR 18 2024

3. Service Type  Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restricted Delivery  
 Certified Mail®  Signature Confirmation™  
 Certified Mail Restricted Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 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:

1809.0005

Seal H Cavin Inc  
PO Box 1125  
Roswell, NM 88202



9590 9402 8474 3186 5355 69

2. Article Number (Transfer from service label)  
9589 0710 5270 0949 9776 51

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
X *[Signature]*  Agent  Addressee

B. Received by (Printed Name) C. Date of Delivery  
Will Cavin 4-23-24

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

APR 23 2024

3. Service Type  Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restricted Delivery  
 Certified Mail®  Signature Confirmation™  
 Certified Mail Restricted Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 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:

1809.0005

Permian Resources  
300 N. Marienfeld St., Ste. 1000  
Midland, TX 79701



9590 9402 8474 3186 5354 39

2. Article Number (Transfer from service label)  
9589 0710 5270 0949 9777 81

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
X *[Signature]*  Agent  Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type  Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restricted Delivery  
 Certified Mail®  Signature Confirmation™  
 Certified Mail Restricted Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 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:

1809.0005

Mewbourne Oil  
3620 Old Bullard Road  
Tyler, TX 75701



9590 9402 8474 3186 5354 60

2. Article Number (Transfer from service label)  
9589 0710 5270 0949 9777 50

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
X *[Signature]*  Agent  Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type  Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restricted Delivery  
 Certified Mail®  Signature Confirmation™  
 Certified Mail Restricted Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

Received by OGD: 5/14/2024 3:01:41 PM

Page 149 of 150

Received by PSN DCD: 5/14/2024 3:01:44 PM

Page 1509 of 1511

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:  
1809.0005  
Magnum Hunter Production, Inc.  
840 Gessner Rd., Ste 1400  
Houston, Texas 77024



9590 9402 8474 3186 5334 28

2. Article Number (Transfer from service label)  
9589 0710 5270 0749 9057 48

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature  
X *[Signature]*  Agent  Addressee

B. Received by (Printed Name) C. Date of Delivery  
*Pam Hunter* *4/20/24*

D. Is delivery address different from item 1?  Yes  No  
If YES, enter delivery address below:

3. Service Type  Priority Mail Express®  Registered Mail™  
 Adult Signature  Registered Mail Restricted Delivery  
 Certified Mail®  Signature Confirmation™  
 Certified Mail Restricted Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery

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:  
1809.0005  
Pamela Burke, Trustee of the Siegfried James Iverson, III Revocable Living Trust  
PO Box 10508  
Midland, Texas 79702



9590 9402 8474 3186 5333 50

2. Article Number (Transfer from service label)  
9589 0710 5270 0749 9058 09

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature  
X *[Signature]*  Agent  Addressee

B. Received by (Printed Name) C. Date of Delivery  
*Pam Burke* *4/17/24*

D. Is delivery address different from item 1?  Yes  No  
If YES, enter delivery address below:

3. Service Type  Priority Mail Express®  Registered Mail™  
 Adult Signature  Registered Mail Restricted Delivery  
 Certified Mail®  Signature Confirmation™  
 Certified Mail Restricted Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery

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:  
1809.0005  
TIG Properties, LP  
PO Box 10508  
Midland, Texas 79702



9590 9402 8474 3186 5333 98

2. Article Number (Transfer from service label)  
9589 0710 5270 0749 9057 79

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature  
X *[Signature]*  Agent  Addressee

B. Received by (Printed Name) C. Date of Delivery  
*Pam Burke* *4/17/24*

D. Is delivery address different from item 1?  Yes  No  
If YES, enter delivery address below:

3. Service Type  Priority Mail Express®  Registered Mail™  
 Adult Signature  Registered Mail Restricted Delivery  
 Certified Mail®  Signature Confirmation™  
 Certified Mail Restricted Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery

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:  
1809.0005  
Dan M. Leonard as Trustee of the DML Revocable Trust dated 1/10/2007  
PO Box 3422  
Midland, Texas 79702



9590 9402 8474 3186 5334 35

2. Article Number (Transfer from service label)  
9589 0710 5270 0749 9057 31

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature  
*[Signature]*  Agent  Addressee

B. Received by (Printed Name) C. Date of Delivery  
*Debbie Glenn* *4/17/24*

D. Is delivery address different from item 1?  Yes  No  
If YES, enter delivery address below:

3. Service Type  Priority Mail Express®  Registered Mail™  
 Adult Signature  Registered Mail Restricted Delivery  
 Certified Mail®  Signature Confirmation™  
 Certified Mail Restricted Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery

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:  
1809.0005  
Pamela Burke, Trustee of the Claire Ann Iverson Revocable Living Trust  
PO Box 10508  
Midland, Texas 79702



9590 9402 8474 3186 5333 67

2. Article Number (Transfer from service label)  
9589 0710 5270 0749 9058 16

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature  
X *[Signature]*  Agent  Addressee

B. Received by (Printed Name) C. Date of Delivery  
*Pam Burke* *4/17/24*

D. Is delivery address different from item 1?  Yes  No  
If YES, enter delivery address below:

3. Service Type  Priority Mail Express®  Registered Mail™  
 Adult Signature  Registered Mail Restricted Delivery  
 Certified Mail®  Signature Confirmation™  
 Certified Mail Restricted Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery

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:  
1809.0005  
Chisholm Energy Operating, Inc.  
300 N. Marienfeld St., Ste. 1000  
Midland, TX 79701



9590 9402 8474 3186 5337 63

2. Article Number (Transfer from service label)  
9589 0710 5270 0749 9058 61

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature  
X *[Signature]*  Agent  Addressee

B. Received by (Printed Name) C. Date of Delivery  
*[Signature]* *4/18/24*

D. Is delivery address different from item 1?  Yes  No  
If YES, enter delivery address below:

3. Service Type  Priority Mail Express®  Registered Mail™  
 Adult Signature  Registered Mail Restricted Delivery  
 Certified Mail®  Signature Confirmation™  
 Certified Mail Restricted Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery

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:

1809.0005

MAP2004-OK, GP  
101 N. Robinson, Ste. 1000  
Oklahoma City, Oklahoma 73102



9590 9402 8474 3186 5335 10

2. Article Number (Transfer from service label)

9589 0710 5270 0749 9056 63

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Alysha Harman*

- 
- Agent
- 
- 
- Addressee

B. Received by (Printed Name)

Alysha Harman

C. Date of Delivery

4/15/24

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- 
- Adult Signature
- 
- 
- Adult Signature Restricted Delivery
- 
- 
- Certified Mail®
- 
- 
- Certified Mail Restricted Delivery
- 
- 
- Collect on Delivery
- 
- 
- Collect on Delivery Restricted Delivery

- 
- Priority Mail Express®
- 
- 
- Registered Mail™
- 
- 
- Registered Mail Restricted Delivery
- 
- 
- Signature Confirmation™
- 
- 
- Signature Confirmation Restricted Delivery

Mail Restricted Delivery (0)

PS Form 3811, July 2020 PSN 7530-02-000-9053

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:

1809.0005

Pamela Burke, Trustee of the KIP  
Revocable Living Trust  
PO Box 10508  
Midland, Texas 79702



9590 9402 8474 3186 5333 81

2. Article Number (Transfer from service label)

9589 0710 5270 0749 9057 86

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Pam Burke*

- 
- Agent
- 
- 
- Addressee

B. Received by (Printed Name)

PAM Burke

C. Date of Delivery

4/17/24

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- 
- Adult Signature
- 
- 
- Adult Signature Restricted Delivery
- 
- 
- Certified Mail®
- 
- 
- Certified Mail Restricted Delivery
- 
- 
- Collect on Delivery
- 
- 
- Collect on Delivery Restricted Delivery

- 
- Priority Mail Express®
- 
- 
- Registered Mail™
- 
- 
- Registered Mail Restricted Delivery
- 
- 
- Signature Confirmation™
- 
- 
- Signature Confirmation Restricted Delivery

Mail Restricted Delivery (0)

PS Form 3811, July 2020 PSN 7530-02-000-9053

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:

1809.0005

New Tex Oil Co.  
PO Box 297  
Hobbs, New Mexico 88241



9590 9402 8474 3186 5334 66

2. Article Number (Transfer from service label)

9589 0710 5270 0749 9057 00

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Brianna Carmona*

- 
- Agent
- 
- 
- Addressee

B. Received by (Printed Name)

Brianna Carmona

C. Date of Delivery

4-17-24

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- 
- Adult Signature
- 
- 
- Adult Signature Restricted Delivery
- 
- 
- Certified Mail®
- 
- 
- Certified Mail Restricted Delivery
- 
- 
- Collect on Delivery
- 
- 
- Collect on Delivery Restricted Delivery

- 
- Priority Mail Express®
- 
- 
- Registered Mail™
- 
- 
- Registered Mail Restricted Delivery
- 
- 
- Signature Confirmation™
- 
- 
- Signature Confirmation Restricted Delivery

Mail Restricted Delivery (0)

PS Form 3811, July 2020 PSN 7530-02-000-9053

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:

1809.0005

Pamela Burke, Trustee of the EGP  
Revocable Living Trust  
PO Box 10508  
Midland, Texas 79702



9590 9402 8474 3186 5333 74

2. Article Number (Transfer from service label)

9589 0710 5270 0749 9057 93

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Pam Burke*

- 
- Agent
- 
- 
- Addressee

B. Received by (Printed Name)

PAM Burke

C. Date of Delivery

4/17/24

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- 
- Adult Signature
- 
- 
- Adult Signature Restricted Delivery
- 
- 
- Certified Mail®
- 
- 
- Certified Mail Restricted Delivery
- 
- 
- Collect on Delivery
- 
- 
- Collect on Delivery Restricted Delivery

- 
- Priority Mail Express®
- 
- 
- Registered Mail™
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- 
- Registered Mail Restricted Delivery
- 
- 
- Signature Confirmation™
- 
- 
- Signature Confirmation Restricted Delivery

Mail Restricted Delivery (0)

PS Form 3811, July 2020 PSN 7530-02-000-9053

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:

1809.0005

Richard Lyons Moore, Trustee of the Richard Lyons Moore 2006 Trust under Third Amendment and Restatement of the Moore Trust dated December 15, 1998  
16400 Dallas Pkwy., Ste. 400  
Dallas, Texas 75248



9590 9402 8474 3186 5334 80

2. Article Number (Transfer from service label)

9589 0710 5270 0749 9056 87

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- 
- Agent
- 
- 
- Addressee

B. Received by (Printed Name)

G. ROBERTS

C. Date of Delivery

4/15/24

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- 
- Adult Signature
- 
- 
- Adult Signature Restricted Delivery
- 
- 
- Certified Mail®
- 
- 
- Certified Mail Restricted Delivery
- 
- 
- Collect on Delivery
- 
- 
- Collect on Delivery Restricted Delivery

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- Priority Mail Express®
- 
- 
- Registered Mail™
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- 
- Registered Mail Restricted Delivery
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- 
- Signature Confirmation™
- 
- 
- Signature Confirmation Restricted Delivery

Mail Restricted Delivery (0)

PS Form 3811, July 2020 PSN 7530-02-000-9053

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:

1809.0005

Nearburg Producing Company  
Employee Fund  
PO Box 823085  
Dallas, Texas 75382



9590 9402 8474 3186 5336 40

2. Article Number (Transfer from service label)

9589 0710 5270 0749 9056 56

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *G. Roberts*

- 
- Agent
- 
- 
- Addressee

B. Received by (Printed Name)

G. ROBERTS

C. Date of Delivery

4/15/24

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- 
- Adult Signature
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- Adult Signature Restricted Delivery
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- Certified Mail®
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- Certified Mail Restricted Delivery
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- Collect on Delivery
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- Collect on Delivery Restricted Delivery

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- Priority Mail Express®
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- Registered Mail™
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- Registered Mail Restricted Delivery
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- 
- Signature Confirmation™
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- Signature Confirmation Restricted Delivery

Mail Restricted Delivery (0)

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt

Received by QCD: 5/14/2024 3:01:44 PM  
 Page 15 of 17

## 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: 1809.0005

FR Energy, LLC  
1106 Witte Road, Suite 400  
Houston, TX 77055



9590 9402 8474 3186 5328 10

2. Article Number (Transfer from service label)

9589 0710 5270 0749 9059 15

PS Form 3811, July 2020 PSN 7530-02-000-9053

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

 Agent  
 Addressee

B. Received by (Printed Name)

Vince

C. Date of Delivery

4/8/24

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- 
- Adult Signature
- 
- 
- Adult Signature Restricted Delivery
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- Certified Mail®
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- Certified Mail Restricted Delivery
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- Collect on Delivery
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- Collect on Delivery Restricted Delivery
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- Insured Mail (over \$500)
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- Priority Mail Express®
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- Registered Mail™
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- Registered Mail Restricted Delivery
- 
- 
- Signature Confirmation™
- 
- 
- Signature Confirmation Restricted Delivery

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: 1809.0005

Michael Harrison Moore, Trustee of the Michael Harrison Moore 2006 Trust under Third Amendment and Restatement of the Moore Trust dated December 15, 1998  
PO Box 51570  
Midland, Texas 79710



9590 9402 8474 3186 5334 73

2. Article Number (Transfer from service label)

9589 0710 5270 0749 9056 94

PS Form 3811, July 2020 PSN 7530-02-000-9053

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

 Agent  
 Addressee

B. Received by (Printed Name)

Sam Larson

C. Date of Delivery

4-18-24

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- 
- Adult Signature
- 
- 
- Adult Signature Restricted Delivery
- 
- 
- Certified Mail®
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- Certified Mail Restricted Delivery
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- Collect on Delivery
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- Collect on Delivery Restricted Delivery
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- Insured Mail (over \$500)
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- Priority Mail Express®
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- Registered Mail™
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- Registered Mail Restricted Delivery
- 
- 
- Signature Confirmation™
- 
- 
- Signature Confirmation Restricted Delivery

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: 1809.0005

Javelina Partners  
616 Texas St.  
Ft. Worth, Texas 76102



9590 9402 8474 3186 5327 97

2. Article Number (Transfer from service label)

9589 0710 5270 0749 9059 39

PS Form 3811, July 2020 PSN 7530-02-000-9053

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

 Agent  
 Addressee

B. Received by (Printed Name)

Corri Cumina

C. Date of Delivery

4-8-24

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- 
- Adult Signature
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- Adult Signature Restricted Delivery
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- Certified Mail®
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- Certified Mail Restricted Delivery
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- Collect on Delivery
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- Collect on Delivery Restricted Delivery
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- Insured Mail (over \$500)
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- Priority Mail Express®
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- Registered Mail™
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- Registered Mail Restricted Delivery
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- Signature Confirmation™
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- Signature Confirmation Restricted Delivery

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: 1809.0005

Frost Bank, Trustee of the Josephine T. Hudson Testamentary Trust fbo J. Terrell Ard  
Frost Bank as Trustee  
PO Box 1600  
San Antonio, Texas 78296



9590 9402 8474 3186 5327 80

2. Article Number (Transfer from service label)

9589 0710 5270 0749 9059 46

PS Form 3811, July 2020 PSN 7530-02-000-9053

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

 Agent  
 Addressee

B. Received by (Printed Name)

Judy Boncates

C. Date of Delivery

4-8-24

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- 
- Adult Signature
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- Adult Signature Restricted Delivery
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- Certified Mail®
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- Certified Mail Restricted Delivery
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- Collect on Delivery
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- Collect on Delivery Restricted Delivery
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- Insured Mail (over \$500)
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- Priority Mail Express®
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- Registered Mail™
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- Registered Mail Restricted Delivery
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- Signature Confirmation™
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- Signature Confirmation Restricted Delivery

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: 1809.0005

Roy G. Barton, Sr. and Opal Barton  
Revocable Trust  
1919 N Turner St  
Hobbs, NM 88240



9590 9402 8474 3186 5337 70

2. Article Number (Transfer from service label)

9589 0710 5270 0749 9058 54

PS Form 3811, July 2020 PSN 7530-02-000-9053

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

 Agent  
 Addressee

B. Received by (Printed Name)

Sherrilyn Ray

C. Date of Delivery

04/09/24

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- 
- Adult Signature
- 
- 
- Adult Signature Restricted Delivery
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- Certified Mail®
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- Certified Mail Restricted Delivery
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- Collect on Delivery
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- Collect on Delivery Restricted Delivery
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- Insured Mail (over \$500)
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- Priority Mail Express®
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- Registered Mail™
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- Registered Mail Restricted Delivery
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- Signature Confirmation™
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- Signature Confirmation Restricted Delivery

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: 1809.0005

Cibolo Resources, LLC  
3600 Bee Cave Road, Suite 102  
West Lake Hills, TX 78746



9590 9402 8474 3186 5327 42

2. Article Number (Transfer from service label)

9589 0710 5270 0749 9059 84

PS Form 3811, July 2020 PSN 7530-02-000-9053

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

 Agent  
 Addressee

B. Received by (Printed Name)

Z Priveta

C. Date of Delivery

4/9/24

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- 
- Adult Signature
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- Adult Signature Restricted Delivery
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- Certified Mail®
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- Certified Mail Restricted Delivery
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- Collect on Delivery
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- Collect on Delivery Restricted Delivery
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- Insured Mail (over \$500)
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- Priority Mail Express®
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- Registered Mail™
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- Registered Mail Restricted Delivery
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- Signature Confirmation™
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- Signature Confirmation Restricted Delivery

Domestic Return Receipt

Received by CD: 5/14/2024 3:01:41 PM

Page 152 of 161

## 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: 1809.0005

Magnum Hunter Production, Inc  
6001 Deauville Blvd, Suite 300N  
Midland, TX 79706



9590 9402 8474 3186 5337 56

2. Article Number (Transfer from service label)

9589 0710 5270 0749 9058 78

PS Form 3811, July 2020 PSN 7530-02-000-9053

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Brenda O'Neill*

- 
- Agent
- 
- 
- Addressee

B. Received by (Printed Name)

*Brenda O'Neill*

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- 
- Adult Signature
- 
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- Adult Signature Restricted Delivery
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- Certified Mail®
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- Certified Mail Restricted Delivery
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- Collect on Delivery
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- Collect on Delivery Restricted Delivery

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- Priority Mail Express®
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- Registered Mail™
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- Registered Mail Restricted Delivery
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- Signature Confirmation™
- 
- 
- Signature Confirmation Restricted Delivery

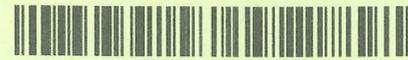
 Insured Mail  
 Mail Restricted Delivery (over \$500)

## 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: 1809.0005

Zorro Partners, Ltd.  
616 Texas St.  
Ft. Worth, Texas 76102



9590 9402 8474 3186 5328 03

2. Article Number (Transfer from service label)

9589 0710 5270 0749 9059 22

PS Form 3811, July 2020 PSN 7530-02-000-9053

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Corri Cumming*

- 
- Agent
- 
- 
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

APR 09 2024

BY: .....

3. Service Type

- 
- Adult Signature
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- Adult Signature Restricted Delivery
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- Certified Mail®
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- Certified Mail Restricted Delivery
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- Collect on Delivery
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- Collect on Delivery Restricted Delivery

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- Priority Mail Express®
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- Registered Mail™
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- Registered Mail Restricted Delivery
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- Signature Confirmation™
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- 
- Signature Confirmation Restricted Delivery

 Insured Mail  
 Mail Restricted Delivery (over \$500)

## 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: 1809.0005

Earthstone Permian, LLC  
300 N. Marienfeld St., Ste. 1000  
Midland, TX 79701



9590 9402 8474 3186 5328 27

2. Article Number (Transfer from service label)

9589 0710 5270 0749 9059 08

PS Form 3811, July 2020 PSN 7530-02-000-9053

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *L Kalisek*

- 
- Agent
- 
- 
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- 
- Adult Signature
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- Adult Signature Restricted Delivery
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- Certified Mail®
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- Certified Mail Restricted Delivery
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- Collect on Delivery
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- Collect on Delivery Restricted Delivery

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- Priority Mail Express®
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- Registered Mail™
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- Registered Mail Restricted Delivery
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- Signature Confirmation™
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- Signature Confirmation Restricted Delivery

 Insured Mail  
 Mail Restricted Delivery (over \$500)

## 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: 1809.0005

Maverick Oil & Gas Corp.  
PO Box 823085  
Dallas, Texas 75382



9590 9402 8474 3186 5328 41

2. Article Number (Transfer from service label)

9589 0710 5270 0749 9058 85

PS Form 3811, July 2020 PSN 7530-02-000-9053

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Floyd Harrison*

- 
- Agent
- 
- 
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

4/9/24

3. Service Type

- 
- Adult Signature
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- Adult Signature Restricted Delivery
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- Certified Mail®
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- Certified Mail Restricted Delivery
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- Collect on Delivery
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- Collect on Delivery Restricted Delivery

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- Priority Mail Express®
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- Registered Mail™
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- Registered Mail Restricted Delivery
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- Signature Confirmation™
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- Signature Confirmation Restricted Delivery

 Insured Mail  
 Mail Restricted Delivery (over \$500)

## 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: 1809.0005

Chisholm Energy Agent, LLC  
300 N. Marienfeld St., Ste. 1000  
Midland, TX 79701



9590 9402 8474 3186 5337 94

2. Article Number (Transfer from service label)

9589 0710 5270 0749 9058 30

PS Form 3811, July 2020 PSN 7530-02-000-9053

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *L Kalisek*

- 
- Agent
- 
- 
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- 
- Adult Signature
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- Adult Signature Restricted Delivery
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- Certified Mail®
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- Certified Mail Restricted Delivery
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- Collect on Delivery
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- Collect on Delivery Restricted Delivery

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- Priority Mail Express®
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- Registered Mail™
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- Registered Mail Restricted Delivery
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- Signature Confirmation™
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- Signature Confirmation Restricted Delivery

 Insured Mail  
 Mail Restricted Delivery (over \$500)

## 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: 1809.0005

TH McElvain Oil & Gas LLLP  
1819 Denver West Drive, Suite 260  
Lakewood, CO 80401



9590 9402 8474 3186 5327 59

2. Article Number (Transfer from service label)

9589 0710 5270 0749 9059 77

PS Form 3811, July 2020 PSN 7530-02-000-9053

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *THM*

- 
- Agent
- 
- 
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

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- Adult Signature
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- Adult Signature Restricted Delivery
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- Certified Mail®
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- Certified Mail Restricted Delivery
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- Collect on Delivery
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- Collect on Delivery Restricted Delivery

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- Priority Mail Express®
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- Registered Mail™
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- Registered Mail Restricted Delivery
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- Signature Confirmation™
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- Signature Confirmation Restricted Delivery

 Insured Mail  
 Mail Restricted Delivery (over \$500)

Received by POCD: 5/14/2024 3:01:42 PM

Page 153 of 165

9589 0710 5270 0749 9056 70

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT**  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

**OFFICIAL USE**

Certified Mail Fee \$	Postmark Here
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$	
<input type="checkbox"/> Return Receipt (electronic) \$	
<input type="checkbox"/> Certified Mail Restricted Delivery \$	
<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	1809.0005
Total Postage \$	
Sent To	
Street and Apt	Roy G. Barton, Jr.; Trustee of the Roy G. Barton, Sr and Opal Barton Revocable Trust
City, State, Zip	

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 0949 9776 68

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT**  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

**OFFICIAL USE**

Certified Mail Fee \$	Postmark Here
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$	
<input type="checkbox"/> Return Receipt (electronic) \$	
<input type="checkbox"/> Certified Mail Restricted Delivery \$	
<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	1809.0005
Total Postage \$	
Sent To	
Street and Apt	Los Siete Exploration 200 W 1st St, Suite 648 Roswell, NM 88201
City, State, Zip	

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 0749 9057 17

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT**  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

**OFFICIAL USE**

Certified Mail Fee \$	Postmark Here
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$	
<input type="checkbox"/> Return Receipt (electronic) \$	
<input type="checkbox"/> Certified Mail Restricted Delivery \$	
<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	1809.0005
Total Postage \$	
Sent To	
Street and Apt	Red River Energy Partners, LLC PO Box 2455 Midland, Texas 79702
City, State, Zip	

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 0749 9058 47

**U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT**  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

**OFFICIAL USE**

Certified Mail Fee \$	Postmark Here
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$	
<input type="checkbox"/> Return Receipt (electronic) \$	
<input type="checkbox"/> Certified Mail Restricted Delivery \$	
<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	1809.0005
Total Postage \$	
Sent To	
Street and Apt	Duadav Resources, LLC 6441 Waggoner Dr. Dallas, Texas 75230
City, State, Zip	

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 0749 9057 24

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Certified Mail Fee \$	Postmark Here
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$	
<input type="checkbox"/> Return Receipt (electronic) \$	
<input type="checkbox"/> Certified Mail Restricted Delivery \$	
<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	1809.0005
Total Postage \$	
Sent To	
Street and Apt	LML Properties, LLC PO Box 3194 Boulder, Colorado 80307
City, State, Zip	

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 0749 9059 60

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Certified Mail Fee \$	Postmark Here
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$	
<input type="checkbox"/> Return Receipt (electronic) \$	
<input type="checkbox"/> Certified Mail Restricted Delivery \$	
<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	1809.0005
Total Postage \$	
Sent To	
Street and Apt	Francis H. Hudson, Trustee of Lindy's Living Trust 215 West Bandera Road, Suite 114-620 Boerne, TX 78006
City, State, Zip	

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

Received by OGD: 5/14/2024 3:01:41 PM

Page 154 of 161

959 0720 6959 5270 0940 6460 9777 29

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Certified Mail Fee	
\$	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postmark  
Here

1809.0005

Postage	
\$	
Total Postage a	
\$	
Sent To	Viersen Oil & Gas Co
Street and Apt.	6450 S Lewis Ave, Suite 200
City, State, ZIP+	Tulsa, OK 74136

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

*Fwd*

**CERTIFIED MAIL**

BC: 8020246925

UNABL  
NOT DELIVER  
RETURN

731 NIXIE

777 29




**FP**  **US POSTAGE**  
**\$009.68<sup>0</sup>**  
**First-Class - IMI**  
ZIP 80202

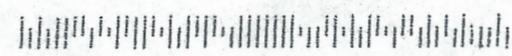
---

04/17/2024  
034A 0081801095

1809.0005

Viersen Oil & Gas Co  
6450 S Lewis Ave, Suite 200  
Tulsa, OK 74136

Received by OCD: 5/14/2024 3:01:41 PM



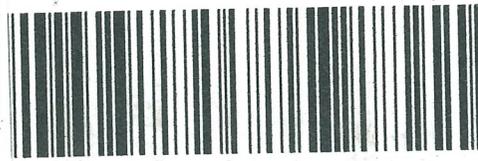
9589 0710 5270 0749 9107 35

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CERTIFIED MAIL



589 0710 5270 0749 9107 35



US POSTAGE  
\$009.68<sup>0</sup>  
First-Class - IMI  
ZIP 80202  
04/08/2024  
034A 0081801095

Certified Mail Fee	
\$	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postmark  
Here

1809.0005

\$	Total Postage
\$	Sent To
Street and A	Mary Nellis and/or her successors-in-
City, State, & ZIP	interest 907 West Main Street Artesia, NM 88210

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

1809.0005  
Mary Nellis and/or her successors-in-  
interest  
907 West Main Street  
Artesia, NM 88210

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: 1809.0005  
Mary Nellis and/or her successors-in-  
interest  
907 West Main Street  
Artesia, NM 88210



9590 9402 8474 3186 5336 57

2. Article Number (Transfer from service label)

9589 0710 5270 0749 9107 35

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature  Agent  
**X**  Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Res Delivery
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input type="checkbox"/> Collect on Delivery Restricted Delivery	

Mail Restricted Delivery (0)

NIXIE 731 D2 1 0004/17/24

RETURN TO SENDER  
NO SUCH NUMBER  
UNABLE TO FORWARD

BC: 80202469250 ZZ66N108191-00450



NSN

Received by OCD: 5/14/2024 3:01:41 PM

9589 0710 5270 0949 9775 07

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OFFICIAL USE

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postmark  
Here

1809.0005

Postage \$

Total Postage \$

Sent To

Street and Apt.

City, State, ZIP

Burgundy Oil & Gas, Inc  
401 W Texas Ave #1003  
Midland, TX 79701

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

CERTIFIED MAIL®

BC: 80202469250  
UNABLE TO  
NOT DELIVERABLE  
RETURN TO  
731 DZ 1  
NIXIE



75 07



FP® US POSTAGE  
\$009.68<sup>0</sup>  
First-Class - IMI  
ZIP 80202  
04/17/2024  
034A 0081801095

Received by OCD: 5/14/2024 3:01:41 PM

Burgundy Oil & Gas, Inc  
401 W Texas Ave #1003  
Midland, TX 79701  
1809.0005

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:

1809.0005

Burgundy Oil & Gas, Inc  
401 W Texas Ave #1003  
Midland, TX 79701



9590 9402 8474 3186 5354 08

2. Article Number (Transfer from service label)

9589 0710 5270 0949 9775 07

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X  Agent  
 Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation™
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input type="checkbox"/> Collect on Delivery Restricted Delivery	

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt



959 0710 5225 0720 6956

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**OFFICIAL USE**

Certified Mail Fee  
 \$ \_\_\_\_\_

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ \_\_\_\_\_

Return Receipt (electronic) \$ \_\_\_\_\_

Certified Mail Restricted Delivery \$ \_\_\_\_\_

Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postmark Here

Postage  
 \$ \_\_\_\_\_ 1809.0005

Total Postage \$ \_\_\_\_\_

Sent To  
 Ard Oil, Ltd.  
 222 W 4th St. PH 5  
 Ft. Worth, Texas 76102

Street and Apt.  
 City, State, ZIP

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions



**FP** **US POSTAGE**  
**\$009.68<sup>0</sup>**  
 First-Class - IMI  
 ZIP 80202  
 04/08/2024  
 034A 0081801095

Received by OCD: 5/14/2024 3:01:41 PM

*Not here!!!  
 Moved OVER*

1809.0005  
 Ard Oil, Ltd.  
 222 W 4th St. PH 5  
 Ft. Worth, Texas 76102

*5 years ago!!  
 (Forwarding order)*

**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:  
 1809.0005  
 Ard Oil, Ltd.  
 222 W 4th St. PH 5  
 Ft. Worth, Texas 76102

2. Article Number (Transfer from service label)  
 9589 0710 5270 0749 9058 23

3. Service Type

Certified Mail®  
 Certified Mail Restricted Delivery  
 Collect on Delivery  
 Collect on Delivery Restricted Delivery

Priority Mail Express®  
 Registered Mail™  
 Registered Mail Restricted Delivery  
 Signature Confirmation™  
 Signature Confirmation Restricted Delivery

9590 9402 8474 3186 5338 00

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return

NIXIE 731 DE 1 0004/17/24  
 RETURN TO SENDER  
 ATTEMPTED NOT KNOWN  
 UNABLE TO FORWARD

194



26 9506 6420 0225 0720 6956

U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

OFFICIAL USE



9589 0710 5270 0749 9058 92



FP® US POSTAGE  
\$009.68<sup>9</sup>  
First-Class - IMI  
ZIP 80202  
04/03/2024  
034A 0081801095

Certified Mail Fee \$ \_\_\_\_\_

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ \_\_\_\_\_

Return Receipt (electronic) \$ \_\_\_\_\_

Certified Mail Restricted Delivery \$ \_\_\_\_\_

Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postmark Here

1809.0005

Postage \$ \_\_\_\_\_

Total Postage \$ \_\_\_\_\_

Sent To Timothy R. MacDonald

3017 Avenue O

Galveston, Texas 77550

City, State, ZIP+4® \_\_\_\_\_

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

1205/01/24  
SO/NT

1809.0005

Timothy R. MacDonald  
3017 Avenue O  
Galveston, Texas 77550



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: 1809.0005

Timothy R. MacDonald  
3017 Avenue O  
Galveston, Texas 77550



9590 9402 8474 3186 5328 34

2. Article Number (Transfer from service label)

9589 0710 5270 0749 9058 92

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature  Agent  
**X**  Addressee

B. Received by (Printed Name) \_\_\_\_\_ C. Date of Delivery \_\_\_\_\_

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

Adult Signature  Priority Mail Express®

Adult Signature Restricted Delivery  Registered Mail™

Certified Mail®  Registered Mail Restricted Delivery

Certified Mail Restricted Delivery  Signature Confirmation™

Collect on Delivery  Signature Confirmation Restricted Delivery

Collect on Delivery Restricted Delivery  Insured Mail

Insured Mail Restricted Delivery (0)

NIXIE 773 50 1 7205/01/24

RETURN TO SENDER  
UNCLAIMED  
UNABLE TO FORWARD

13  
20

Received by OCD: 5/14/2024 3:01:41 PM

CERTIFIED MAIL

U.S.

BC: 80202469250 2266N102144-00845

RETURN TO SENDER  
NOT DELIVERABLE AS ADDRESSED  
UNABLE TO FORWARD

9059 53



FP<sup>®</sup> US POSTAGE  
\$009.68<sup>9</sup>  
First-Class - IMI  
ZIP 80202  
04/03/2024  
034A 0081801095

1675 Broadw  
Denver

Postal Service<sup>™</sup>  
CERTIFIED MAIL<sup>®</sup> RECEIPT  
Domestic Mail Only

For delivery information, visit our website at www.usps.com<sup>®</sup>

OFFICIAL USE

Certified Mail Fee \$  
Extra Services & Fees (check box, add fee as appropriate)  
 Return Receipt (hardcopy) \$  
 Return Receipt (electronic) \$  
 Certified Mail Restricted Delivery \$  
 Adult Signature Required \$  
 Adult Signature Restricted Delivery \$

Postmark Here

1809.0005

Postage \$  
Total Postage \$  
Sent To 9/9/2002

Street and A 3301 Riverwell Ct.  
City, State, Zi Ft. Worth, TX 76116

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 0749 9059 53

U/K  
1601  
4-8-24  
N

1809.0005  
Bank of America, Trustee of the Delmar  
Hudson Lewis Living Trust u/t/a dated  
9/9/2002  
3301 Riverwell Ct.  
Ft. Worth, TX 76116

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:  
1809.0005  
Bank of America, Trustee of the Delmar  
Hudson Lewis Living Trust u/t/a dated  
9/9/2002  
3301 Riverwell Ct.  
Ft. Worth, TX 76116



9590 9402 8474 3186 5327 66

2. Article Number (Transfer from service label)

9589 0710 5270 0749 9059 53

COMPLETE THIS SECTION ON DELIVERY

A. Signature  Agent  
**X**  Addressee  
B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type  
 Adult Signature  
 Adult Signature Restricted Delivery  
 Certified Mail<sup>®</sup>  
 Certified Mail Restricted Delivery  
 Collect on Delivery  
 Collect on Delivery Restricted Delivery  
 Insured Mail  
 Priority Mail Express<sup>®</sup>  
 Registered Mail<sup>™</sup>  
 Registered Mail Restricted Delivery  
 Signature Confirmation<sup>™</sup>  
 Signature Confirmation Restricted Delivery

Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt

Received by OCD: 5/14/2024 3:01:41 PM

# Affidavit of Publication

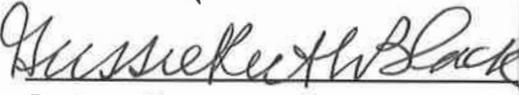
STATE OF NEW MEXICO  
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated  
April 10, 2024  
and ending with the issue dated  
April 10, 2024.

  
\_\_\_\_\_  
Publisher

Sworn and subscribed to before me this  
10th day of April 2024.

  
\_\_\_\_\_  
Business Manager

My commission expires  
January 29, 2027

(Seal) STATE OF NEW MEXICO  
NOTARY PUBLIC  
GUSSIE RUTH BLACK  
COMMISSION # 1087526  
COMMISSION EXPIRES 01/29/2027

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said publication has been made.

LEGAL NOTICE  
April 10, 2024

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

The State of New Mexico, Energy Minerals and Natural Resources Department, Oil Conservation Division ("Division") hereby gives notice that the Division will hold public hearings before a hearing examiner on the following case.

The hearing will be conducted on **Thursday, May 2, 2024, beginning at 8:15 A.M.** in a hybrid fashion, both in-person at the Energy, Minerals; Natural Resources Department, Wendell Chino Building, Pecos Hall, 1220 South St. Francis Drive, 1st Floor, Santa Fe, NM 87505 and via the WebEx virtual meeting platform. To view the hearing docket and to determine how to participate in the electronic hearing, visit the Division's website at: <http://www.emnrd.state.nm.us/OCD/hearing-info/> or contact Sheila Apodaca at [Sheila.Apodaca@emnrd.nm.gov](mailto:Sheila.Apodaca@emnrd.nm.gov). Documents filed in the case may also be viewed at <https://ocdimage.emnrd.state.nm.us/imaging/CaseFileCriteria.aspx>. If you are an individual with a disability who needs a reader, amplifier, qualified sign language interpreter, or other form of auxiliary aid or service to attend or participate in the hearing, contact Sheila Apodaca or the New Mexico Relay Network at 1-800-659-1779, no later than **April 22, 2024**.

STATE OF NEW MEXICO TO:

All named parties and persons having any right, title, interest or claim in the following case and notice to the public.

(NOTE: All land descriptions herein refer to the New Mexico Principal Meridian whether or not so stated.)

**TO: All overriding royalty interest owners and pooled parties, including:** Francis H. Hudson, Trustee of Lindy's Living Trust; Bank of America, Trustee of the Delmar Hudson Lewis Living Trust; Frost Bank, Trustee of the Josephine T. Hudson Testamentary Trust fbo Terrell Ard; Javelina Partners; Zorro Partners, Ltd.; FR Energy, LLC; Earthstone Permian, LLC; Duadav Resources, LLC; Timothy R. MacDonald; Maverick Oil & Gas Corp.; Magnum Hunter Production, Inc.; Chisholm Energy Operating, Inc.; Roy G. Barton, Sr. and Opal Barton Revocable Trust; Chisholm Energy Agent, LLC; Cibolo Resources, LLC; TH McElvain Oil & Gas, LLLP; Ard Oil, Ltd.; Pamela Burke, Trustee of the Claire Ann Iverson Revocable Living Trust; Pamela Burke, Trustee of the Siegfried James Iverson, III Revocable Living Trust; Pamela Burke, Trustee of the EGP Revocable Living Trust; Pamela Burke, Trustee of the KIP Revocable Living Trust; TIG Properties, LP; Hanaco, LLC; Hanagan Investment, LLC; Magnum Hunter Production Inc.; Dan M. Leonard as Trustee of the DML Revocable Trust dated 1/10/2007; LML Properties, LLC; Red River Energy Partners, LLC; New Tex Oil Co.; Michael Harrison Moore, Trustee of the Michael Harrison Moore 2006 Trust under Third Amendment and Restatement of the Moore Trust dated December 15, 1998; Richard Lyons Moore, Trustee of the Richard Lyons Moore 2006 Trust under Third Amendment and Restatement of the Moore Trust dated December 15, 1998; MAP2004-OK, GP; Nearburg Producing Company Employee Fund; Mary Nellis and/or her successors-in-interest; Roy G. Barton, Jr.; Trustee of the Roy G. Barton, Sr and Opal Barton Revocable Trust.

**CASE NO. 24376: Application of Avant Operating LLC for Compulsory Pooling and Approval of Non-Standard Spacing Unit, Lea County, New Mexico.** Applicant in the above- styled cause seeks an order from the Division to: (1) create a non-standard 1,280-acre, more or less, spacing and proration unit composed of all Section 31, Township 18 South, Range 33 East, NMP.M. and all of Section 6, Township 19 South, Range 33 East, N.M.P.M., Lea County, New Mexico; and (2) to pool all uncommitted mineral interests in the Bone Spring formation, designated as an oil pool, underlying said unit. The proposed wells to be dedicated to the horizontal spacing unit are Emerald Fed Com #301H, Emerald Fed Com #302H, Emerald Fed Com #501H, Emerald Fed Com #502H, Emerald Fed Com #601H, and Emerald Fed Com #602H, which are oil wells that will be horizontally drilled from a surface location in Lot 7 of Section 6 to a bottom hole location in the Bone Spring Formation in Lot 1 of Section 31; Emerald Fed Com #303H, Emerald Fed Com #513H, and Emerald Fed Com #603H, which are oil wells that will be horizontally drilled from a surface location in Lot 7 of Section 6 to a bottom hole location in the Bone Spring Formation in the NE/4NW/4 (Unit C) of Section 31; Emerald Fed Com #304H, Emerald Fed Com #514H, and Emerald Fed Com #604H, which are oil wells that will be horizontally drilled from a surface location in the SE/4SE/4 (Unit P) of Section 6 to a bottom hole location in the Bone Spring Formation in the NW/4NE/4 (Unit B) of Section 31; and Emerald Fed Com #305H, Emerald Fed Com #306H, Emerald Fed Com #515H, Emerald Fed Com #516H, Emerald Fed Com #605H, and Emerald Fed Com #606H, which are oil wells that will be horizontally drilled from a surface location in the SE/4SE/4 (Unit P) of Section 6 to a bottom hole location in the Bone Spring Formation in the NE/4NE/4 (Unit A) of Section 31. The wells are orthodox in location, and the take points and laterals comply with Statewide Rules for setbacks. Applicant will apply for administrative approval of the non-standard spacing unit. Also to be considered will be the cost of drilling and completing the wells and the allocation of the costs thereof; actual operating costs and charges for supervision; the designation of the Applicant as Operator of the wells and unit; and a 200% charge for the risk involved in drilling and completing the wells. The wells and lands are located approximately 5 miles west from Hobbs, New Mexico.  
**#00289148**

67112105

00289148

MARY FINNEY  
BEATTY & WOZNIAK, P.C.  
1675 BROADWAY, SUITE 600  
DENVER, CO 80202