

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

**APPLICATIONS OF GOODNIGHT MIDSTREAM  
PERMIAN, LLC FOR APPROVAL OF  
SALTWATER DISPOSAL WELLS  
LEA COUNTY, NEW MEXICO**

**CASE NOS. 23614-23617**

**APPLICATION OF GOODNIGHT MIDSTREAM  
PERMIAN, LLC TO AMEND ORDER NO. R-22026/SWD-2403  
TO INCREASE THE APPROVED INJECTION RATE  
IN ITS ANDRE DAWSON SWD #1,  
LEA COUNTY, NEW MEXICO.**

**CASE NO. 23775**

**APPLICATIONS OF EMPIRE NEW MEXICO LLC  
TO REVOKE INJECTION AUTHORITY,  
LEA COUNTY, NEW MEXICO**

**CASE NOS. 24018-24020, 24025**

**APPLICATION OF GOODNIGHT MIDSTREAM  
PERMIAN, LLC FOR APPROVAL OF A  
SALTWATER DISPOSAL WELL, LEA COUNTY,  
NEW MEXICO.**

**DIVISION CASE NO. 22626  
ORDER NO. R-22869-A  
COMMISSION CASE NO. 24123**

**SELF-AFFIRMED STATEMENT OF NATHAN ALLEMAN**

1. My name is Nathan Alleman. I am the President and Chief Regulatory Advisor for Ace Energy Advisors.

2. I have previously testified before the New Mexico Oil Conservation Division (“Division” or “NMOCD”) as an expert witness in regulatory matters and permitting of saltwater disposal wells. My credentials as an expert in regulatory matters and permitting of saltwater

**BEFORE THE OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
Exhibit No. A**

**Submitted by: Goodnight Midstream Permian, LLC  
Hearing Date: September 23, 2024  
Case Nos. 23614-23617, 23775,  
24018 – 24020, 24025, 24123**

disposal wells (SWDs) have been accepted by the Division and made a matter of record. I have attached my current curriculum vitae as **Goodnight Exhibit A-1**.

3. In summary, I received a Bachelor's Degree in Biology from Pittsburg State University in 2007 and a Master's Degree in Environmental Policy and Management from the University of Denver in 2013. I have worked in the oil and gas industry for over 15 years as an environmental and regulatory consultant supporting operators in a variety of roles and on a variety of issues across the country. In 2018, while working at ALL Consulting (ALL), I began serving as the SWD Team Lead where I managed a team of interdisciplinary experts including regulatory specialists, geologists, and engineers. Since that time, I have managed the permitting of over 200 SWDs, over 150 of which were located in New Mexico. In those efforts, my specific responsibilities consisted of a variety of tasks including, but not limited to, staying up to date with current SWD regulations and permitting requirements; performing/preparing pre-application desktop location analyses, production reviews, AOR Evaluations, wellbore diagrams, and water sampling; identifying and notifying Affected Persons; preparing and publishing public notices; and compiling and submitting applications, or managing other specialists in doing the same.. I believe these credentials qualify me to testify as an expert in these areas.

4. I am familiar with the C-108 applications filed by Goodnight Midstream in the above-referenced cases, and I am familiar with the status of the lands in the subject area. I supported Goodnight Midstream Permian, LLC ("Goodnight Midstream") (OGRID No. 372311) by managing the preparation and submission of the C-108 administrative applications in Case Nos. 23614-23617, 23775, and 24123. I also conducted the area of review analysis for each of the applications.



5. These applications were originally filed for administrative approval but were protested during the administrative review period by Empire Petroleum Corporation (“Empire”). As a result of Empire’s protest in each of these cases, Goodnight Midstream requested that these applications be set for hearing before a Division Examiner. Empire is the only entity that objected to these applications.

6. Case Nos. 23614-23617 and 23775 were subsequently referred to the Commission to be heard together with Commission Case No. 24123 under Division Order No. R-23048. *See **Goodnight Exhibit A-2.***

7. Case No. 24123 is a de novo hearing before the Commission on Division Order No. R-22869-A, which is attached as **Goodnight Exhibit A-3.**

8. Case Nos. 23614-23617 each involve a proposed produced water disposal well that would be located within the boundaries of the Eunice Monument South Unit (“EMSU”) and drilled and operated by Goodnight Midstream.

9. Case No. 23775 requests an order authorizing an increase in the injection rate approved under Order No. R-22026/SWD-2403 from 25,000 barrels of water per day (BWPD) to 40,000 BWPD.

10. My testimony addresses all elements of the C-108 required for approval except for the geology and engineering analyses, which is addressed by Preston McGuire’s testimony and exhibits. My testimony addresses each pending application for authorization to inject, and the request for authorization to increase the injection rate in the Andre Dawson SWD, in turn.

**Case No. 23614: Doc Gooden SWD #1 Well**

11. **Goodnight Exhibit A-4** is a full and complete copy of the Form C-108, also attached as Exhibit A to the hearing application, that was filed by Goodnight Midstream with the Division on June 6, 2023.

12. In this application, Goodnight Midstream seeks authority to inject produced saltwater for purposes of disposal through its proposed **Doc Gooden SWD #1 Well** (API No. pending), which will be located 1,596 feet from the south line and 1,334 feet from the east line (Unit J), Section 3, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico. Page 10 in **Goodnight Exhibit A-4** contains a C-102 depicting the location for the proposed injection well.

13. The proposed injection disposal interval will be within the San Andres formation [SWD; San Andres (Pool Code 96121)] between approximately 4,200 feet and 4,900 feet below the ground through a perforated completion. The maximum surface injection pressure will be 840 pounds per square inch (psi) and the estimated average surface injection pressure is expected to be approximately 537 psi. The maximum injection rate will be 42,000 barrels per day (bpd) and the estimated average injection rate is expected to be approximately 27,500 bpd.

14. It is expected that the proposed injection volumes can be achieved without exceeding the maximum surface injection pressure. Injection pressures and volumes will be continuously monitored through an electronic SCADA system.

15. A small acid job may be performed to clean up mud and cuttings from the formation prior to commencement of injection operations. However, no other formation stimulation is currently planned.

16. The proposed injection is a new project and will be a closed injection system. It will operate as a commercial saltwater disposal well.

17. A copy of the well bore diagram for the proposed Doc Gooden SWD #1 is included at page 11 of **Goodnight Exhibit A-4**. Details on the proposed packer system are included at page 12. An overview of the well's proposed construction and casing program is included at page 5.

18. The nine and five-eighths-inch production casing will be cemented to surface and a cement bond log will be used to establish the top of the cement and the quality of the bonding to the casing.

19. The annular space between the production casing and injection tubing will be filled with an inert packer fluid to protect both the production casing and the injection tubing, and both the injection and annulus pressures will be monitored at the wellhead to confirm the mechanical integrity of the well during injection.

20. The well design and cement plan will protect freshwater and underground sources of drinking water in the area and will be protective of correlative rights.

21. Thirty-five wells are located within the half-mile area of review. Fifteen of those wells are active producers, eighteen have been plugged and abandoned, and two are injection wells. Information on each of the wells within the half-mile area of review is tabulated at page 15 of **Goodnight Exhibit A-4**. Twenty-one wells within the area of review penetrate the injection interval; twelve have been properly plugged and abandoned and the other nine are active wells that have been properly cased and cemented to isolate them from the San Andres formation.

22. Where available, casing information and copies of the well bore schematics reflecting the condition of each of the wells that penetrate the injection interval within the half-mile area of review are included at pages 17-29 of **Goodnight Exhibit A-4**. Each of these

penetrating wells are properly cased and cemented through the injection interval and do not require corrective action to contain injection fluids within the injection interval. Additionally, none of the existing wells within the half-mile area of review create a potential conduit for the migration of injection fluids out of the injection zone.

23. The proposed injection fluids to be injected will be from production in various formations, including the Delaware Mountain Group (“DMG”), Wolfcamp, and Bone Springs formations. Water chemistry analyses of representative samples of produced water that are expected to be injected are located at page 35 in **Goodnight Exhibit A-4**. In addition, water samples from the injection formation in the San Andres are located at page 37. Based on this water chemistry analysis and prior experience, I do not expect there will be a compatibility issue between the injection fluids and the fluids within the injection interval.

24. The surface at the location of the proposed injection well consists of privately owned lands. Page 30 in **Goodnight Exhibit A-4** includes a map depicting all oil and gas leases within a two-mile radius of the proposed injection well. Goodnight Midstream has an access and injection agreement in place with the private owner of the surface location.

25. **Goodnight Exhibit A-3**, page 39, contains a map depicting the location of the proposed injection well and the relative location of five active water wells within a one-mile radius. The water well sampling rationale and sample analyses for available freshwater wells are included at pages 40-58 in the exhibit.

26. Notice of this application was provided to the surface owner, NMOCD District Office, and Affected Persons within a half-mile area of review. A complete list of the parties entitled to notice is included at page 62 of **Goodnight Exhibit A-4**. Parties entitled to notice were identified based on a determination of the title of lands and interests as recorded in the records of

Lea County and from a review of NMOCD and NMSLO operator records as of the time the application was filed. See **Goodnight Exhibit A-4**, pages 30-32.

27. **Goodnight Exhibit A-4** pages 63-65 are copies of the green cards as proof that notice was sent by certified mail to all parties entitled to notice of the C-108 administrative application within the half-mile area of review. Constructive notice was also provided by publication in a newspaper of general circulation in Lea County, New Mexico, where the proposed injection well will be located. A copy of the affidavit of publication is included at page 61.

28. It is my opinion that Goodnight Midstream undertook a good faith effort to locate and identify the correct parties and valid addresses required for notice within the half-mile area of review. To the best of my knowledge the addresses used for notice purposes are valid and correct. There were no unlocatable parties for whom we were unable to locate a valid address for this case.

**Case No. 23615: Hernandez SWD #1 Well**

29. **Goodnight Exhibit A-5** is a full and complete copy of the Form C-108, also attached as Exhibit A to the hearing application, that was filed by Goodnight Midstream with the Division on June 6, 2023.

30. In this application, Goodnight Midstream seeks authority to inject produced saltwater for purposes of disposal through its proposed **Hernandez SWD #1 Well** (API No. pending), which will be located 326 feet from the south line and 793 feet from the east line (Unit P), Section 10, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico. Page 10 in **Goodnight Exhibit A-5** contains a C-102 depicting the location for the proposed injection well.

31. The proposed injection disposal interval will be within the San Andres formation [SWD; San Andres (Pool Code 96121)] between approximately 4,200 feet and 5,300 feet below the ground through a perforated completion. The maximum surface injection pressure will be 840

pounds per square inch (psi) and the estimated average surface injection pressure is expected to be approximately 537 psi. The maximum injection rate will be 42,000 barrels per day (bpd) and the estimated average injection rate is expected to be approximately 27,500 bpd.

32. It is expected that the proposed injection volumes can be achieved without exceeding the maximum surface injection pressure. Injection pressures and volumes will be continuously monitored through an electronic SCADA system.

33. A small acid job may be performed to clean up mud and cuttings from the formation prior to commencement of injection operations. However, no other formation stimulation is currently planned.

34. The proposed injection is a new project and will be a closed injection system. It will operate as a commercial saltwater disposal well.

35. A copy of the well bore diagram for the proposed Hernandez SWD #1 is included at page 11 of **Goodnight Exhibit A-5**. Details on the proposed packer system are included at page 12. An overview of the well's proposed construction and casing program is included at page 5.

36. The nine and five-eighths-inch production casing will be cemented to surface and a cement bond log will be used to establish the top of the cement and the quality of the bonding to the casing.

37. The annular space between the production casing and injection tubing will be filled with an inert packer fluid to protect both the production casing and the injection tubing, and both the injection and annulus pressures will be monitored at the wellhead to confirm the mechanical integrity of the well during injection.

38. The well design and cement plan will protect freshwater and underground sources of drinking water in the area and will be protective of correlative rights.

39. Thirty-seven wells are located within the half-mile area of review. Nineteen of those wells are active producers, seven have been plugged and abandoned, and eleven are injection wells. Information on each of the wells within the half-mile area of review is tabulated at page 15 of **Goodnight Exhibit A-5**. Six wells within the area of review penetrate the injection interval; three have been properly plugged and abandoned and the other three are active wells that have been properly cased and cemented to isolate them from the San Andres formation.

40. Where available, casing information and copies of the well bore schematics reflecting the condition of each of the wells that penetrate the injection interval within the half-mile area of review are included at pages 16-19 of **Goodnight Exhibit A-5**. Each of these penetrating wells are properly cased and cemented through the injection interval and do not require corrective action to contain injection fluids within the injection interval. Additionally, none of the existing wells within the half-mile area of review create a potential conduit for the migration of injection fluids out of the injection zone.

41. The proposed injection fluids to be injected will be from production in various formations, including the Delaware Mountain Group (“DMG”), Wolfcamp, and Bone Springs formations. Water chemistry analyses of representative samples of produced water that are expected to be injected are located at page 25 in **Goodnight Exhibit A-5**. In addition, water samples from the injection formation in the San Andres are located at page 27. Based on this water chemistry analysis and prior experience, I do not expect there will be a compatibility issue between the injection fluids and the fluids within the injection interval.

42. The surface at the location of the proposed injection well consists of privately owned lands. Page 20 in **Goodnight Exhibit A-5** includes a map depicting all oil and gas leases

within a two-mile radius of the proposed injection well. Goodnight Midstream has an access and injection agreement in place with the private owner of the surface location.

43. **Goodnight Exhibit A-5**, page 29, contains a map depicting the location of the proposed injection well and the relative location of three active water wells within a one-mile radius. The water well sampling rationale and sample analyses for available freshwater wells are included at pages 30-39 in the exhibit.

44. Notice of this application was provided to the surface owner, NMOCD District Office, and Affected Persons within a half-mile area of review. A complete list of the parties entitled to notice is included at page 43 of **Goodnight Exhibit A-5**. Parties entitled to notice were identified based on a determination of the title of lands and interests as recorded in the records of Lea County and from a review of NMOCD, NMSLO and BLM operator records as of the time the application was filed. See **Goodnight Exhibit A-5**, pages 20-22.

45. **Goodnight Exhibit A-5** pages 44-47 are copies of the green cards as proof that notice was sent by certified mail to all parties entitled to notice of the C-108 administrative application within the half-mile area of review. Constructive notice was also provided by publication in a newspaper of general circulation in Lea County, New Mexico, where the proposed injection well will be located. A copy of the affidavit of publication is included at page 42.

46. It is my opinion that Goodnight Midstream undertook a good faith effort to locate and identify the correct parties and valid addresses required for notice within the half-mile area of review. To the best of my knowledge the addresses used for notice purposes are valid and correct. There were no unlocatable parties for whom we were unable to locate a valid address for this case.



**Case No. 23616: Hodges SWD #1 Well**

47. **Goodnight Exhibit A-6** is a full and complete copy of the Form C-108, also attached as Exhibit A to the hearing application, that was filed by Goodnight Midstream with the Division on June 6, 2023.

48. In this application, Goodnight Midstream seeks authority to inject produced saltwater for purposes of disposal through its proposed **Hodges SWD #1 Well** (API No. pending), which will be located 2,833 feet from the north line and 1,620 feet from the west line (Lot 11), Section 4, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico. Page 10 in **Goodnight Exhibit A-6** contains a C-102 depicting the location for the proposed injection well.

49. The proposed injection disposal interval will be within the San Andres formation [SWD; San Andres (Pool Code 96121)] between approximately 4,100 feet and 5,200 feet below the ground through a perforated completion. The maximum surface injection pressure will be 820 pounds per square inch (psi) and the estimated average surface injection pressure is expected to be approximately 500 psi. The maximum injection rate will be 42,000 barrels per day (bpd) and the estimated average injection rate is expected to be approximately 27,500 bpd.

50. It is expected that the proposed injection volumes can be achieved without exceeding the maximum surface injection pressure. Injection pressures and volumes will be continuously monitored through an electronic SCADA system.

51. A small acid job may be performed to clean up mud and cuttings from the formation prior to commencement of injection operations. However, no other formation stimulation is currently planned.

52. The proposed injection is a new project and will be a closed injection system. It will operate as a commercial saltwater disposal well.

53. A copy of the well bore diagram for the proposed Hodges SWD #1 is included at page 11 of **Goodnight Exhibit A-6**. Details on the proposed packer system are included at page 12. An overview of the well's proposed construction and casing program is included at page 5.

54. The nine and five-eighths-inch production casing will be cemented to surface and a cement bond log will be used to establish the top of the cement and the quality of the bonding to the casing.

55. The annular space between the production casing and injection tubing will be filled with an inert packer fluid to protect both the production casing and the injection tubing, and both the injection and annulus pressures will be monitored at the wellhead to confirm the mechanical integrity of the well during injection.

56. The well design and cement plan will protect freshwater and underground sources of drinking water in the area and will be protective of correlative rights.

57. Thirty wells are located within the half-mile area of review. Fourteen of those wells are active producers, eight have been plugged and abandoned, and seven are injection wells. Information on each of the wells within the half-mile area of review is tabulated at page 15 of **Goodnight Exhibit A-6**. Eleven wells within the area of review penetrate the injection interval; three have been properly plugged and abandoned and the other eight are active wells that have been properly cased and cemented to isolate them from the San Andres formation.

58. Where available, casing information and copies of the well bore schematics reflecting the condition of each of the wells that penetrate the injection interval within the half-mile area of review are included at pages 16-20 of **Goodnight Exhibit A-6**. Each of these penetrating wells are properly cased and cemented through the injection interval and do not require corrective action to contain injection fluids within the injection interval. Additionally, none of the

existing wells within the half-mile area of review create a potential conduit for the migration of injection fluids out of the injection zone.

59. The proposed injection fluids to be injected will be from production in various formations, including the Delaware Mountain Group (“DMG”), Wolfcamp, and Bone Springs formations. Water chemistry analyses of representative samples of produced water that are expected to be injected are located at page 26 in **Goodnight Exhibit A-6**. In addition, water samples from the injection formation in the San Andres are located at page 28. Based on this water chemistry analysis and prior experience, I do not expect there will be a compatibility issue between the injection fluids and the fluids within the injection interval.

60. The surface at the location of the proposed injection well consists of privately owned lands. Page 21 **Goodnight Exhibit A-6** includes a map depicting all oil and gas leases within a two-mile radius of the proposed injection well. Goodnight Midstream has an access and injection agreement in place with the private owner of the surface location.

61. **Goodnight Exhibit A-6**, page 30, contains a map depicting the location of the proposed injection well and the relative location of four water wells within a one-mile radius; however, three of these wells are not freshwater wells and one is not currently active. *See* page 31 in the exhibit.

62. Notice of this application was provided to the surface owner, NMOCD District Office, and Affected Persons within a half-mile area of review. A complete list of the parties entitled to notice is included at page 35 of **Goodnight Exhibit A-6**. Parties entitled to notice were identified based on a determination of the title of lands and interests as recorded in the records of Lea County and from a review of NMOCD, NMSLO and BLM operator records as of the time the application was filed. *See* **Goodnight Exhibit A-6**, pages 21-23.

63. **Goodnight Exhibit A-6** pages 36-39 are copies of the green cards as proof that notice was sent by certified mail to all parties entitled to notice of the C-108 administrative application within the half-mile area of review. Constructive notice was also provided by publication in a newspaper of general circulation in Lea County, New Mexico, where the proposed injection well will be located. A copy of the affidavit of publication is included at page 34.

64. It is my opinion that Goodnight Midstream undertook a good faith effort to locate and identify the correct parties and valid addresses required for notice within the half-mile area of review. To the best of my knowledge the addresses used for notice purposes are valid and correct. There were no unlocatable parties for whom we were unable to locate a valid address for this case.

**Case No. 23617: Seaver SWD #1 Well**

65. **Goodnight Exhibit A-7** is a full and complete copy of the Form C-108, also attached as Exhibit A to the hearing application, that was filed by Goodnight Midstream with the Division on June 6, 2023.

66. In this application, Goodnight Midstream seeks authority to inject produced saltwater for purposes of disposal through its proposed **Seaver SWD #1 Well** (API No. pending), which will be located 1,809 feet from the south line and 1,428 feet from the west line (Unit K), Section 10, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico. Page 10 in **Goodnight Exhibit A-7** contains a C-102 depicting the location for the proposed injection well.

67. The proposed injection disposal interval will be within the San Andres formation [SWD; San Andres (Pool Code 96121)] between approximately 4,200 feet and 5,300 feet below the ground through a perforated completion. The maximum surface injection pressure will be 840 pounds per square inch (psi) and the estimated average surface injection pressure is expected to be

approximately 537 psi. The maximum injection rate will be 42,000 barrels per day (bpd) and the estimated average injection rate is expected to be approximately 27,500 bpd.

68. It is expected that the proposed injection volumes can be achieved without exceeding the maximum surface injection pressure. Injection pressures and volumes will be continuously monitored through an electronic SCADA system.

69. A small acid job may be performed to clean up mud and cuttings from the formation prior to commencement of injection operations. However, no other formation stimulation is currently planned.

70. The proposed injection is a new project and will be a closed injection system. It will operate as a commercial saltwater disposal well.

71. A copy of the well bore diagram for the proposed Seaver SWD #1 is included at page 11 of **Goodnight Exhibit A-7**. Details on the proposed packer system are included at page 12. An overview of the well's proposed construction and casing program is included at page 5.

72. The nine and five-eighths-inch production casing will be cemented to surface and a cement bond log will be used to establish the top of the cement and the quality of the bonding to the casing.

73. The annular space between the production casing and injection tubing will be filled with an inert packer fluid to protect both the production casing and the injection tubing, and both the injection and annulus pressures will be monitored at the wellhead to confirm the mechanical integrity of the well during injection.

74. The well design and cement plan will protect freshwater and underground sources of drinking water in the area and will be protective of correlative rights.

75. Thirty-five wells are located within the half-mile area of review. Seventeen of those wells are active producers, five have been plugged and abandoned, and thirteen are injection wells. Information on each of the wells within the half-mile area of review is tabulated at page 15 of **Goodnight Exhibit A-7**. Six wells within the area of review penetrate the injection interval; one has been properly plugged and abandoned and the other five are active wells that have been properly cased and cemented to isolate them from the San Andres formation.

76. Where available, casing information and copies of the well bore schematics reflecting the condition of each of the wells that penetrate the injection interval within the half-mile area of review are included at pages 16-17 of **Goodnight Exhibit A-7**. Each of these penetrating wells are properly cased and cemented through the injection interval and do not require corrective action to contain injection fluids within the injection interval. Additionally, none of the existing wells within the half-mile area of review create a potential conduit for the migration of injection fluids out of the injection zone.

77. The proposed injection fluids to be injected will be from production in various formations, including the Delaware Mountain Group (“DMG”), Wolfcamp, and Bone Springs formations. Water chemistry analyses of representative samples of produced water that are expected to be injected are located at page 23 in **Goodnight Exhibit A-7**. In addition, water samples from the injection formation in the San Andres are located at page 25. Based on this water chemistry analysis and prior experience, I do not expect there will be a compatibility issue between the injection fluids and the fluids within the injection interval.

78. The surface at the location of the proposed injection well consists of privately owned lands. Page 18 in **Goodnight Exhibit A-7** includes a map depicting all oil and gas leases

within a two-mile radius of the proposed injection well. Goodnight Midstream has an access and injection agreement in place with the private owner of the surface location.

79. **Goodnight Exhibit A-7**, page 27, contains a map depicting the location of the proposed injection well and the relative location of seven active water wells within a one-mile radius. The water well sampling rationale and sample analyses for available freshwater wells are included at page 28-46 in the exhibit.

80. Notice of this application was provided to the surface owner, NMOCD District Office, and Affected Persons within a half-mile area of review. A complete list of the parties entitled to notice is included at page 50 of **Goodnight Exhibit A-7**. Parties entitled to notice were identified based on a determination of the title of lands and interests as recorded in the records of Lea County and from a review of NMOCD and NMSLO operator records as of the time the application was filed. See **Goodnight Exhibit A-7**, pages 18-20.

81. **Goodnight Exhibit A-7** pages 51-52 are copies of the green cards as proof that notice was sent by certified mail to all parties entitled to notice of the C-108 administrative application within the half-mile area of review. Constructive notice was also provided by publication in a newspaper of general circulation in Lea County, New Mexico, where the proposed injection well will be located. A copy of the affidavit of publication is included at page 49.

82. It is my opinion that Goodnight Midstream undertook a good faith effort to locate and identify the correct parties and valid addresses required for notice within the half-mile area of review. To the best of my knowledge the addresses used for notice purposes are valid and correct. There were no unlocatable parties for whom we were unable to locate a valid address for this case.

**Case No. 24123: Piazza SWD #1 Well**

83. **Goodnight Exhibit A-8** is a full and complete copy of the Form C-108 that was filed by Goodnight Midstream with the Division on September 17, 2021.

84. In this application, Goodnight Midstream seeks authority to inject produced salt water for purposes of disposal through its proposed **Piazza SWD No. 1 Well** (API No. pending), which will be located 1,847 feet from the south line and 2,537 feet from the west line (Unit K), Section 9, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico. Page 9 in **Goodnight Exhibit A-8** contains a C-102 depicting the location for the proposed injection well.

85. The proposed injection disposal interval will be within the San Andres formation [SWD; San Andres (Pool Code 96121)] between approximately 4,125 feet and 5,400 feet below the ground through a perforated completion. The maximum surface injection pressure will be 825 pounds per square inch (psi) and the estimated average surface injection pressure is expected to be approximately 495 psi. The maximum injection rate will be 40,000 barrels per day (bpd) and the estimated average injection rate is expected to be approximately 25,000 bpd.

86. It is expected that the proposed injection volumes can be achieved without exceeding the maximum surface injection pressure. Injection pressures and volumes will be continuously monitored through an electronic SCADA system.

87. A small acid job may be performed to clean up mud and cuttings from the formation prior to commencement of injection operations. However, no other formation stimulation is currently planned.

88. The proposed injection is a new project and will be a closed injection system. It will operate as a commercial saltwater disposal well.



89. A copy of the well bore diagram for the proposed Piazza SWD #1 is included at page 10 of **Goodnight Exhibit A-8**. Details on the proposed packer system are included at page 11. An overview of the well's proposed construction and casing program is included at page 3.

90. The nine and five-eighths-inch production casing will be cemented to surface and a cement bond log will be used to establish the top of the cement and the quality of the bonding to the casing.

91. The annular space between the production casing and injection tubing will be filled with an inert packer fluid to protect both the production casing and the injection tubing, and both the injection and annulus pressures will be monitored at the wellhead to confirm the mechanical integrity of the well during injection.

92. The well design and cement plan will protect freshwater and underground sources of drinking water in the area and will be protective of correlative rights.

93. Twenty-four wells are located within the half-mile area of review. Fifteen of those wells are active producers, five have been plugged and abandoned, and four are injection wells. Information on each of the wells within the half-mile area of review is tabulated at page 14 of **Goodnight Exhibit A-8**. Only three wells within the area of review penetrate the injection interval. Two of them are active wells: (1) the Eunice Monument South Unit #713 (API 30-025-37321), and (2) the Eunice Monument South Unit #462 (API 30-025-29622). Both of these wells are properly plugged back to a shallower zone. The third well that penetrates the injection interval is the Eunice Monument South Unit #461 (API 30-025-29621). It has been properly plugged and abandoned.

94. Copies of the well bore schematics reflecting the condition of each of the wells that penetrate the injection interval within the half-mile area of review are included at pages 16-18 of

**Goodnight Exhibit A-8.** Each of these penetrating wells are properly cased and cemented through the injection interval and do not require corrective action to contain injection fluids within the injection interval. Additionally, none of the existing wells within the half-mile area of review create a potential conduit for the migration of injection fluids out of the injection zone.

95. The proposed injection fluids to be injected will be from production in various formations, including the Delaware Mountain Group (“DMG”), Wolfcamp, and Bone Springs formations. Water chemistry analyses of representative samples of produced water that are expected to be injected are located at page 23 in **Goodnight Exhibit A-8.** In addition, water samples from the injection formation in the San Andres are located at page 25. Based on this water chemistry analysis and prior experience, I do not expect there will be a compatibility issue between the injection fluids and the fluids within the injection interval.

96. The surface at the location of the proposed injection well is privately owned and the minerals are owned by the U.S. and managed by the Bureau of Land Management (“BLM”). Pages 15, 19, and 20 in **Goodnight Exhibit A-8** include maps depicting all oil and gas leases within a two-mile radius of the proposed injection well. Goodnight Midstream has an access and injection agreement in place with the private owner of the surface location.

97. **Goodnight Exhibit A-8,** page 27, contains a map depicting the location of the proposed injection well and the relative location of nine water wells within a one-mile radius. The water well sampling rationale and sample analyses for available freshwater wells are included at pages 28-37 in the exhibit.

98. Notice of this application was provided to the surface owner, NMOCD District Office, and Affected Persons within a half-mile area of review that are entitled to receive notice included in the table on page 41 of **Goodnight Exhibit A-8.** Parties entitled to notice were

identified based on a determination of the title of lands and interests as recorded in the records of Lea County and from a review of NMOCD and BLM operator records as of the time the application was filed. See **Goodnight Exhibit A-8**, pages 14, 41. **Goodnight Exhibit A-8** pages 15, and 19-21, include maps that depict all lease tracts within the half-mile area of review. A complete list of the parties entitled to notice is included at page 41.

99. **Goodnight Exhibit A-8** pages 42-44 are copies of the green cards as proof that notice was sent by certified mail to all parties entitled to notice of the C-108 administrative application within the half-mile area of review. Constructive notice was also provided by publication in a newspaper of general circulation in Lea County, New Mexico, where the proposed injection well will be located. A copy of the affidavit of publication is included at page 40.

100. It is my opinion that Goodnight Midstream undertook a good faith effort to locate and identify the correct parties and valid addresses required for notice within the half-mile area of review. To the best of my knowledge the addresses used for notice purposes are valid and correct. There were no unlocatable parties for whom we were unable to locate a valid address.

**Case No. 23775: Andre Dawson SWD #1 Application to Amend Order  
No. R-22026/SWD-2403 To Increase Injection Rate**

101. **Goodnight Exhibit A-9** is a complete administrative application requesting approval to increase the authorized maximum rate of injection in the Andre Dawson SWD #1 filed with the Division for administrative approval on April 10, 2023.

102. In this application, Goodnight seeks to amend Order No. R-22026/SWD-2403 to increase the approved maximum rate of injection in its Andre Dawson SWD #1 (API 30-025-50634) from 25,000 barrels per day (bpd) to 40,000 bpd. All other conditions of the approved permit under Order No. R-22026/SWD-2403 are requested to remain unchanged.

103. The well is located 1,105 feet from the South line and 244 feet from the East line (Unit P) of Section 17, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico. All other conditions of the approved permit are proposed to remain the same.

104. The well is approved as a produced water disposal well under Order No. R-2206/SWD-2403 to inject into the San Andres formation through a perforated interval from approximately 4,287 feet to 5,590 feet below the surface at maximum surface injection pressure of 857 psi. The maximum surface injection pressure will remain unchanged.

105. I reviewed the Division's well data records and confirmed that there are no additional wells in the half-mile area of review since approval of Order No. R-2206/SWD-2403; however, there are two new affected parties within the area of review due to a change in the Division's operator-of-record designation. **Goodnight Exhibit A-9** includes a complete copy of the affected parties and proof of administrative notice.

106. Approval of this injection rate increase request would provide additional disposal capacity for operators, while deferring the need for additional SWDs in the area.

107. In my opinion, granting this application will help conserve resources, and will avoid waste and protect correlative rights.

108. **Goodnight Exhibits A-1 through A-9** were prepared by me or compiled under my direction from company business records or from the public records of the OCD.

109. I affirm under penalty of perjury under the laws of the State of New Mexico that the foregoing statements are true and correct. I understand that this self-affirmed statement will be used as written testimony in this case. This statement is made on the date next to my signature below.



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Nathan Alleman

08/20/2024

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Date



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**Nate Alleman**  
**President & Chief Regulatory Advisor**  
**Ace Energy Advisors**

BEFORE THE OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

Exhibit No. A-1

Submitted by: Goodnight Midstream Permian, LLC

Hearing Date: September 23, 2024

Case Nos. 23614-23617, 23775,  
24018 – 24020, 24025, 24123

**Education**

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M.A.S., Environmental Policy and Management, University of Denver  
B.S., Biology, Pittsburg State University

**Distinguishing Qualifications**

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Mr. Alleman has a Bachelor's Degree in Biology and a Master's Degree in Environmental Policy and Management and currently serves as President & Chief Regulatory Advisor for Ace Energy Advisors. Mr. Alleman has gained experience in the oil and gas industry through 15 years of research, policy review and development, field operations, and project management. Mr. Alleman's experience includes analysis and resolution of both operational and multi-jurisdictional regulatory issues in the areas of well construction and siting; well permitting; contractor management; water sourcing, storage, treatment, transportation, and disposal; spill response and cleanup; stray gas investigation; and public affairs. Mr. Alleman has managed the permitting of over 500 oil and gas wells and has conducted due diligence audits on over 2,000 oil and gas production facilities and over 150 saltwater disposal (SWD) facilities. Mr. Alleman oversees a team of interdisciplinary experts (engineers, geologists, landmen, and regulatory specialists) and has managed the permitting of over 150 SWDs across the country including planning, site selection, well design, seismic and geologic reviews, and coordination with regulatory agencies. Mr. Alleman has testified as the regulatory expert in over 25 hearings related to the permitting and operations of SWDs.

**Relevant Experience**

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The following information is intended to demonstrate Mr. Alleman's experience and qualifications:

For multiple operators, including Goodnight Midstream, Marathon Oil Corporation, Solaris Midstream, Blackbuck Resources, WaterBridge, Pilot Water Solutions, and Select Energy Services, Mr. Alleman has served as a contract regulatory advisor for water midstream projects and has been responsible for managing the purchasing, designing, permitting, building, and/or operating of commercial and non-commercial water treatment systems, fresh and saltwater storage and transportation systems, and salt water disposal wells. In this role, Mr. Alleman has managed the permitting and/or overseen the construction of over 150 SWDS, water pipelines, pits, water treatment/recycling facilities, and gas plants with a majority of these projects taking place in New Mexico, Texas, Oklahoma, and Louisiana. As a part of this support, Mr. Alleman has testified as a regulatory expert in over 25 hearings related to the permitting and operations of SWDs.

For **Marathon Oil Corporation**, Mr. Alleman served as a contract disposal permitting coordinator for their water disposal operations in Oklahoma, Louisiana, and Texas. Mr. Alleman has assisted Marathon in identifying subsurface geological formations suitable for high volume injection. For this effort, Mr. Alleman led a team that assessed potential injection zones in a six (6) County area of Oklahoma (i.e., Kingfisher, Garvin, Canadian, Stephens, Grady, and Blaine). For the

## Nate Alleman

project, over a thousand injection wells were evaluated, including review of operational data, geophysical logs, well completion details, and other information. For the first phase of the project, high confidence areas were identified, including prospective target zones and various other details in what is currently Oklahoma's most actively drilled area of the state. This led to the successful permitting of multiple saltwater disposal wells in the Stack play.

For **Alta Mesa**, Mr. Alleman served as the permitting coordinator and field supervisor for a large water infrastructure project in Kingfisher County, Oklahoma. The project includes planning, design, construction, and operation of water infrastructure for approximately 100,000 acres that are being developed by Alta Mesa. This includes in excess of 100 miles of water pipeline, water access from the Cimarron River, multiple water impoundments, various pumps, manifolds, and various other components. The project was completed on a full design-build (or turnkey) basis with an overall budget of approximately \$100 million.

For **Primexx Operating Corporation**, Mr. Alleman served as the permitting coordinator and field supervisor for multiple produced water recycling projects located in West Texas. The projects generally include design/construction of freshwater storage impoundments; construction of multiple recycling systems designed to manage 30,000-45,000 barrels of water per day (BWPD); surface facilities required for treatment systems, disposal wells, and production operations; components for conditioning water for direction to either disposal wells or recycling systems; and other related infrastructure. The project also included overall planning for water to assure drilling and completion operations were fully supported.

For multiple companies in Pennsylvania (including Seneca Resources, PGE, and others), Mr. Alleman managed projects pertaining to induced seismicity for Class II disposal wells being permitted in the State. Mr. Alleman and his team worked with industry and the Pennsylvania Department of Environmental Protection (DEP) in the development of custom permit conditions related to induced seismic monitoring and mitigation planning. The conditions negotiated with DEP became the standard methodology and permit conditions used for seismic monitoring in Pennsylvania.

Mr. Alleman served as a researcher and regulatory specialist for a litigation case between a midstream company and landowner involving an oil spill in Stephens County, Oklahoma. Although the case settled, Mr. Alleman supported the client with review and analysis of existing technical data and technical reports prepared by the Plaintiff's expert. Mr. Alleman visited the site, conducted analysis, and supported preparation of an expert report, and supported settlement negotiations from a technical basis. The primary issue at hand in this case was a large release of crude oil from a pipeline and related impacts to the plaintiff's property. This support required knowledge of soils, soil chemistry, remediation of crude oil in soils (e.g., land farming), soil handling/blending, related state guidance & requirements, as well as understanding Oklahoma's oil & gas historical operations as well as water well construction and related area geology/hydrogeology.

Mr. Alleman served as a researcher and writer for a U.S Department of Energy (DOE) research project involving the preparation of a Primer on shale gas development throughout the United States. The project involved analysis of natural gas supplies, the regulatory framework applicable to the oil & gas industry, geology and development approaches applicable to shale gas, and research related to a broad array of environmental issues. The environmental review included research on issues such as horizontal drilling, hydraulic fracturing, water sourcing, water management, water treatment/disposal, and other issues and impacts pertaining to issues such as transportation, wildlife, stormwater, underground injection, noise, visual impacts, drilling in rural versus metropolitan areas, etc. Mr. Alleman is currently serving as Project Manager for an update to this report.



## Nate Alleman

For a confidential client, Mr. Alleman is served in multiple roles for a 30-wellpad-per-year exploration and production operation in the Utica Shale of southeastern Ohio.

- **Baseline Sampling:** Mr. Alleman managed the field operations and report submission for the client's 30-well-pad-per-year baseline sampling operation. He developed a standard operating procedure based on U.S. Environmental Protection Agency (USEPA) and Ohio Department of Natural Resource (ODNR) requirements, along with the client's internal sampling protocols that exceed the state and federal requirements and best management practices (BMPs).
- **Incident Response:** Mr. Alleman managed responses to groundwater, surface water, and soil contamination complaints for the client. This work involved interviewing landowners, collecting samples from the complaint area and any nearby pads as needed, and working with engineers, hydrologists, and attorneys to determine whether any further action (e.g., remediation, water source replacement, or remuneration) is needed.
- **Policy Support:** Mr. Alleman worked with high level staff and multiple functional groups to review, comment, and augment the client's policies and procedures. The programs involved in the scope of the task range from on-boarding for new hires and contractors, health and safety, air compliance program, general Health, Safety, and the Environment (HSE) plans, incident management, water management, waste management, and operations (transitions and controls between phases). As the policies and procedures are finalized, associated training will be developed and finalized as a way to transfer the information to the field personnel.
- **Construction Oversight:** In support of a compliance agreement with ODNR, Mr. Alleman performed oversight during the construction of a dozen well pads and associated roads to ensure that contractors built the improvements as specified in the approved plans.

Mr. Alleman served as a primary researcher in an expert witness case regarding New Mexico's pit rules. Research included analyzing previous, current, and proposed regulations and practices in New Mexico and comparing those regulations to other states' rules as support for a colleague's expert witness testimony.

For a confidential client, Mr. Alleman served as the Project Coordinator for their Eagle Ford (EF) operations, involving Health, Safety, and Environmental Regulatory (HSE-R) oversight and coordination during the planning, construction, drilling, completion, and production phases of development operations for ten drilling rigs. Mr. Alleman worked out of the client's offices to facilitate the coordination of the various ongoing projects and to help with strategic development of operation efficiencies and inter-office coordination. Mr. Alleman served as the primary client interface and was in charge of ensuring the following projects were performed properly and in a timely manner:

- **Waste Management:** Mr. Alleman has assisted in the development of a waste management protocol for wastes generated during the drilling, completion, and operations processes. The waste management protocol includes identification of the proper methods for storage, handling, spill cleanup and reporting, transportation, and disposal. Mr. Alleman has also assisted in identifying the most appropriate disposal facilities based on location, transportation costs, disposal costs, and compliance of the disposal facility in question. Additionally, a disposal facility and hauling contractor audit process was developed and implemented to ensure compliance and efficiency in the client's waste management operations.



## Nate Alleman

- **Well Pad Siting:** Mr. Alleman developed a Regulatory Site Assessment (RSA) process to determine construction and operation opportunities based on regulatory constraints associated with existing pipelines, wetlands, surface water bodies, floodplains, residential properties, air permits, threatened and endangered species, and other criteria. These assessments were successful in identifying and avoiding issues that would have otherwise slowed down or stopped development based on regulatory requirements had they not been identified prior to initiating survey and construction field work.
- **Environmental Assessments:** Mr. Alleman tracked and managed the execution of Environmental Assessments prior to construction of well pads, pipelines, access roads, pits, and water wells and instituted changes in the field procedures to increase the efficiency of responding to issues identified in the assessments. Mr. Alleman also reviewed the Environmental Assessments and managed follow-up actions to mitigate issues based on the findings. Such mitigation included revising the location and timing of construction and obtaining necessary permits.
- **Process Management:** With the various projects he has managed, Mr. Alleman has instituted many inter-departmental processes to standardize the methods by which work was completed and tracked. The process management tasks included coordination between the various departments to determine preferred methods for commissioning work, communicating findings, and recording final decisions and actions. The processes were then formalized and recorded in a client-approved format and distributed to the applicable groups, and training was developed and provided as necessary.
- **Ground Water Conservation Districts:** Mr. Alleman was in charge of bringing the client's groundwater well permitting program into compliance with the Texas Water Code and Groundwater Conservation District (GCD) rules. Work included identifying the location and permit status of the client's current groundwater wells, developing a process to bring existing wells into compliance, developing a process to permit new groundwater wells as they were drilled, and developing a system to track the progress of each of the aforementioned items. Mr. Alleman was the lead contact and liaison between the client and the GWCDs and was in charge of successfully permitting 34 groundwater wells.
- **Permitting Support:** Mr. Alleman assisted the client's regulatory department in obtaining the necessary permits and giving necessary notification required throughout the life of oil and gas wells, including submitting drill permits and completion reports through the Railroad Commission of Texas (RRC). Aside from actually completing the regulatory paperwork, Mr. Alleman worked with the client's regulatory, drilling, completions, land, and geology groups to develop a process to improve inter-office coordination and increase the efficiency of the permitting and reporting processes going forward.
- **Emergency Response:** Mr. Alleman researched and documented the spill reporting and notification requirements in Texas based on Texas Commission on Environmental Quality (TCEQ), RRC, USEPA, National Response Center (NRC), Bureau of Land Management (BLM), and Texas Department of Transportation (TxDOT) rules. Mr. Alleman developed a spill reporting policy for the client that identifies the chemical-specific threshold reporting values to determine the appropriate reporting agency, method, and timeframe based on the volume and type of material spilled.
- **Department of Transportation (DOT) Pipelines:** Mr. Alleman coordinated with other ALL staff specialists to determine the regulatory jurisdiction of the client's production and gathering lines throughout the EF. The work included mapping the pipelines and determining the proximity to residential structures to determine the class location of the

## Nate Alleman

pipeline. Mr. Alleman then worked with the client's facilities engineers to obtain operational information used to determine the regulatory jurisdiction of the pipeline.

- **Chemical Disclosure:** Mr. Alleman was in charge of the review and ultimate submission of chemical disclosure reports to FracFocus. Mr. Alleman coordinated with the completions contractor to ensure that the chemical information was obtained in a timely manner, then reviewed and revised the reports in accordance with RRC regulations and FracFocus formatting requirements prior to submission.
- **Impoundment Permitting:** Mr. Alleman assisted the client in determining pit location and design based on operational needs and regulatory requirements. The location of the proposed pits and ponds was evaluated to determine the need for U.S. Army Corps of Engineers (USACE) or other permits prior to construction. Often, due to an expedited drilling schedule, sufficient time was not available to obtain the necessary permits for pit construction. In these situations, Mr. Alleman assisted the client in identifying alternatives to the proposed location or identifying other water sourcing solutions to fit the need. An operations and maintenance plan (with inspection procedures) was developed to ensure construction, maintenance, and closure were carried out in accordance with state regulations.

For a confidential client, Mr. Alleman was the lead researcher in identifying spill response and notification requirements for the client's operations in each of five states. After researching and compiling the spill-requirement information, Mr. Alleman developed a guide to help field personnel make quick and informed decisions and to provide information regarding initial and follow-up notifications to make in the case of various types of oilfield-related spills.

Mr. Alleman supported Newalta Corporation in assessing the feasibility of new salt water disposal (SWD) well sites in the Marcellus, Utica, Eagle Ford, and Bakken shale plays. This included evaluating the presence of appropriate geologic characteristics and depths and potential liabilities associated with underground sources of drinking water, documenting costs associated with well drilling and facility construction/operation, identifying existing facilities, and determining potential disposal volumes and transportation issues. The findings of these evaluations were used to identify the most operationally and economically appropriate disposal locations in each of the areas of interest.

For several confidential clients, Mr. Alleman supported acquisitions of assets in the Rocky Mountain and Gulf Coast Basins. The work included analyzing regulatory compliance of the prospective properties and operators, coordinating with state agencies to identify all of the assets in question, and determining requirements and filing appropriate paperwork to notify the proper agencies of the transfer of oil wells and gas plants. The findings of the acquisition support efforts were used by the client to determine fitness of the assets to be purchased and to negotiate prices based on expected liabilities.

In East Texas, Mr. Alleman supported a confidential client in a litigation case where their operations were being accused of contaminating groundwater in the area. The work consisted of collecting gas samples from area water wells and gas wells and conducting isotopic analyses to determine if the production or back-side gas found in the gas wells originated from the same formation as the gas found in the plaintiff's water well. Mr. Alleman also coordinated and conducted pressure tests to determine if the annuli of the surface and production casings of the gas wells in question were in communication which would indicate a failed cement job or failed casing.

## Nate Alleman

Mr. Alleman completed a project with a confidential client to assess the water resources and management issues in the Eagle Ford Shale in south Texas. By performing a regulatory review in the state of Texas, Mr. Alleman became intimately familiar with Texas's regulations associated with drilling and production, groundwater withdrawals, surface water withdrawals, water management and reporting, and waste disposal. Additionally, Mr. Alleman is familiar with the jurisdictions and authorities of, and has contacts with, the RRC, TCEQ, Watermaster, GCDs, and River Authorities in the EF area.

Mr. Alleman acted as the primary researcher and author for a project that summarized oil and gas waste regulations from nine states containing major shale gas basins. The research resulted in the creation of an easily accessible database of regulations for each of the states. The database summarizes usage, reporting, storage, transportation, and disposal regulations associated with various oil and gas waste streams including produced water, drilling mud, waste oil, stormwater, and solid wastes. Through the preliminary research and revising the database with updated regulations, Mr. Alleman has become knowledgeable on the subject of waste regulations and has used this knowledge to support oil and gas operators in compliance and regulatory issues.

Mr. Alleman served as a co-researcher on two U.S. Department of Energy research efforts involving water resources, water treatment, and produced water. One of the projects involved assessing non-traditional water supply alternatives for coal-fired power plants. The other project includes evaluating options for the oil & gas industry to assess alternatives for managing produced water, including evaluating the effectiveness of numerous treatment options for produced water.

As a lead researcher and writer, Mr. Alleman has prepared papers for oil and gas clients associated with state and federal issues. The issues being evaluated had resulted in delays and challenges to important permitting processes and resource development. The research involved talking with multiple regulatory agencies to determine the current status of the regulations and how these regulations affect development in the area and summarizing the issues and potential paths forward for the client.

### Short Course Completed

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8-hr HAZWOPER Refresher – March 2015

Remediation and Restoration of Hydrocarbon and Brine Contaminated Soils – February 2015

### Recent Publications

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- Nate Alleman, J.D. Arthur P.E. SPEC, Gavin James P.E., Ben Bockelmann (ALL Consulting). “Alternative Produced Water Management Strategies in a Seismically Restricted World: Issues & Opportunities”. Presented at the North American Oil & Gas Shale Water Management 2022. Houston, TX. August 22, 2022.
- Nate Alleman, J.D. Arthur P.E. SPEC (ALL Consulting). “Data-Driven Process for Selecting Production and Salt Water Disposal Well Locations Based on Site Specific and Regional Factors”. Presented at IPEC Connect. May 6, 2021.
- Nate Alleman (ALL Consulting). Produced Water Society Seminar. “Data-Driven Process and Regional Considerations for Optimal SWD Planning and Permitting”. September 8, 2021.
- Nate Alleman, J.D. Arthur P.E. SPEC, Mark Kidder, and Tom Tomastik (ALL Consulting). “Application of Recycling & Reuse Technologies to Minimize the Cost of Water Management”. Oklahoma Shale Production Optimization Congress SCOOP & STACK 2019. Oklahoma City, OK. May 1, 2019.

## Nate Alleman

- Nate Alleman, J.D. Arthur P.E. SPEC, Gavin James P.E., Bill Hochheiser (ALL Consulting). “*Produced Water Recycling in the Delaware Basin of New Mexico*”. Presented at the 2018 International Petroleum Environmental Conference. Tulsa, OK. October 31, 2018.
- Nate Alleman and J. Daniel Arthur, P.E., SPEC. “*Induced Seismic Monitoring: A Regulatory and Technical Update*”. Presented at the IOGANY 2017 Annual Summer Meeting. Clymer, NY. July 12, 2017.
- Nate Alleman, J. Daniel Arthur, P.E., SPEC, and Mark Faucher (ALL Consulting). “*Innovation in the Oilfield: How Best Management Practices Have Reduced the Impacts of Shale Development*.” Presented at the SPE Mid-Continent Section Luncheon. Denver, CO. January 13, 2016.

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

**APPLICATIONS OF GOODNIGHT MIDSTREAM  
PERMIAN, LLC FOR APPROVAL OF  
SALTWATER DISPOSAL WELLS  
LEA COUNTY, NEW MEXICO**

**Order No. R-23048**

**CASE NOS. 23614-23617**

**APPLICATIONS OF EMPIRE NEW MEXICO LLC  
TO REVOKE INJECTION AUTHORITY,  
LEA COUNTY, NEW MEXICO**

**CASE NOS. 24018-24027**

**APPLICATION OF GOODNIGHT MIDSTREAM  
PERMIAN LLC TO AMEND ORDER NO. R-22026/SWD-2403  
TO INCREASE THE APPROVED INJECTION RATE  
IN ITS ANDRE DAWSON SWD #1,  
LEA COUNTY, NEW MEXICO.**

**CASE NO. 23775**

**ORDER REFERRING CASES TO THE OIL CONSERVATION COMMISSION**

This matter comes before the Director of the Oil Conservation Division (Director) on Empire New Mexico LLC’s (Empire) Motion to Refer Cases to New Mexico Oil Conservation Commission filed on January 3, 2024. The Director finds and orders that:

1. These cases involve Goodnight Midstream Permian LLC’s (Goodnight) proposed and existing injection of produced water into the San Andres formation within and surrounding the Eunice Monument South Unit (EMSU) operated by Empire.
2. In Division Case Nos. 23614-23617, Goodnight seeks orders authorizing injection of produced water for disposal into the San Andres formation between approximately 4,100 and 5,300 feet.
3. In Division Case Nos. 24018-24027, Empire seeks orders revoking Goodnight’s existing permits to inject produced water into the San Andres formation. Case Nos. 24018, 24019, 24020, and 24025 involve Goodnight’s four active wells that are located within the EMSU – the Andre Dawson SWD #1 (30-025-50634), the Ernie Banks SWD #1 (30-025-50633), the Sosa SWD #1(30-025-47947), and the Ryno SWD #1 (30-025-43901), respectively. Case Nos. 24022, 24024, 24026, and 24027 involve Goodnight’s four active disposal wells that are located within approximately one mile of the EMSU – the Pedro SWD #1 (30-025-50079), the Nolan Ryan SWD #1 (30-025-45349), the Ted SWD #1(30-025-44386), and the Yaz SWD #1 (30-025-46382), respectively. Case Nos. 24023 and 24021 involve Goodnight’s permitted Verlander SWD #1 (30-025-50632) and Rocket SWD #1 (30-025-pending), respectively, which are also located

**BEFORE THE OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
Exhibit No. A-2  
Submitted by: Goodnight Midstream Permian, LLC  
Hearing Date: September 23, 2024  
Case Nos. 23614-23617, 23775,  
24018 – 24020, 24025, 24123**

within approximately one mile of the EMSU. In Division Case No. 23775, Goodnight seeks authorization to increase the rate of injection into the Andre Dawson SWD #1 within the EMSU.

4. These cases are related to Oil Conservation Commission (Commission) Case No. 24123, in which Goodnight has sought a *de novo* hearing on Division Order No. R-22869-A.
5. Pursuant to NMSA 1978, Section 70-2-6(B) and 19.15.4.20(B) NMAC, a hearing may be held before the Commission on any matter if the Director, at their discretion, determines the Commission shall hear the matter.
6. The Director finds that referring the above-listed cases to the Commission for a hearing is an efficient use of resources.

**IT IS THEREFORE ORDERED THAT:**

1. These cases are referred to the Commission and shall be heard with the *de novo* hearing on Division Order No. R-22869-A at a date and time determined by the Commission.
2. The record in the Division proceedings on the above-listed cases is hereby part of the record before the Commission.

**STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION**



**DYLAN FUGE  
DIRECTOR (Acting)**

**Date:** 2/7/2024

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

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

**APPLICATION OF GOODNIGHT PERMIAN MIDSTREAM,  
LLC FOR APPROVAL OF A SALTWATER DISPOSAL WELL,  
LEA COUNTY, NEW MEXICO.**

**CASE NO. 22626  
ORDER NO. R-22869-A**

**ORDER OF THE DIVISION**

This case came in for hearing before the Oil Conservation Division (“OCD”) at 8:15 a.m. on September 15, 2022, in Santa Fe, New Mexico.

The OCD Director, having considered the testimony, the record, the recommendations of Hearing Examiner Phillip R. Goetze, these findings of fact, and conclusions of law issues this Order.

**FINDINGS**

1. Due public notice has been given, and the OCD has jurisdiction of this case and the subject matter.
2. Goodnight Midstream Permian, LLC (“Applicant” or “Goodnight”) seeks authority to for its proposed Piazza Well No. 1 (API No. 30-025-pending; “Proposed Well”), to be located 1847 feet from the South line and 2537 feet from the West line (Unit K) of Section 9, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico, as an Underground Injection Control (“UIC”) Class II well for commercial disposal of produced water into the San Andres formation from approximately 4125 feet to 5400 feet below surface.
3. Applicant submitted a Form C-108 application (Administrative Application No. pBL2126055537; designated administrative order SWD-2458) on September 17, 2021, for authority to inject into the Proposed Well.
4. The OCD received on September 22, 2021, a formal written notice by Empire New Mexico, LLC (“Protestant” or “Empire”) protesting the application.

**BEFORE THE OIL CONSERVATION COMMISSION**

Santa Fe, New Mexico

Exhibit No. A-3

Submitted by: Goodnight Midstream Permian, LLC

Hearing Date: September 23, 2024

Case Nos. 23614-23617, 23775,

24018 – 24020, 24025, 24123



Case No. 22626  
Order No. R-22869-A  
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5. On March 4, 2022, Goodnight filed an application for hearing for approval of the Proposed Well for disposal of produced water. Subsequently, Empire filed an entry of appearance for this application on March 5, 2022, followed by an objection to the case being conducted by affidavit on March 31, 2022.

6. Following a status conference on April 7, 2022, the OCD Examiner [William Brancard] issued a pre-hearing order which detailed the evidentiary requirements for the hearing and set the hearing date for June 16, 2022.

7. Between the issuance of the OCD Pre-hearing Order and the final hearing on September 15, 2022, the Applicant and Protestant filed the following motions and results by the OCD:

a. OCD issued a Subpoena on May 16, 2022, requiring Empire to provide specific records and information regarding the Eunice Monument South Unit (“EMSU” or “Unit”).

b. OCD issued a second Subpoena on June 6, 2022, requiring Empire to provide specific records and information identified in the first Subpoena but with a new enforcement date of June 9, 2022.

c. A motion hearing on June 16, 2022, oral arguments were presented by both parties to OCD Examiner addressing a Motion to Dismiss filed by Empire on June 7, 2022, along with an Opposed Motion for Continuance.

d. At the same hearing on June 16, 2022, oral arguments were presented by both parties addressing a Motion to Quash Subpoena filed by Empire on June 7, 2022. On July 26, 2022, the OCD issued an Order denying the motion but did modify the conditions of the Subpoena including a revised compliance date of August 25, 2022.

e. A second Pre-Hearing Order was issued following the motion hearing which scheduled an evidentiary hearing in this case for September 15, 2022.

f. On August 24, 2022, the OCD Examiner issued an order on Motion to Dismiss by Empire. The Motion to Dismiss was denied and the scheduled hearing remained in effect.

g. Protestant filed a Motion for Leave to File Late Exhibits and Testimony. On September 12, 2022, Goodnight filed a separate response in opposition to the Motion for Leave along with a Motion in Limine to Exclude Evidence and Testimony regarding the late submittal of the witness testimony and exhibits. At the evidentiary hearing on September 15, 2022, the OCD Examiner heard arguments from both parties and, though expressed disappointment with the late submittal of the exhibits by Empire, allowed the entry of the exhibits into the record while denying the Motion in Limine to Exclude.

8. On June 20, 2022, Goodnight filed a Supplemental Legal Memorandum in response to the OCD Examiner’s statement that a significant issue “*is whether statutory unitization precludes the Division from authorizing injection for disposal, unrelated to unit operations, within a formation*”



Case No. 22626  
Order No. R-22869-A  
Page 3 of 9

included within the vertical limits of a statutory unit". The Memorandum summarizes the following arguments:

- a. The Statutory Unitization Act limits the Division's authority to unitize only underground hydrocarbon reservoirs or pools;
- b. Order No. R-7765 must be read in harmony with the Division's authority to unitize only a pool or part of a pool;
- c. Unitization of the San Andres aquifer conflicts with the New Mexico Constitution; and
- d. Because the Act does not preclude injection into the San Andres formation, the Division must decide Goodnight's application on its merits.

9. On September 8, 2022, Goodnight filed a pre-hearing statement with the following conclusions based on the evidence and testimony filed concurrently:

- a. That the proposed San Andres injection interval does not have a history of hydrocarbon production and is not prospective for hydrocarbon development;
- b. That injection into the San Andres interval would not migrate out the approved zone which would impair correlative rights and cause waste; and
- c. That approval of the San Andres injection interval would not interfere with the waterflood operations of the EMSU.

10. Empire also filed a pre-hearing statement with the following conclusions based on the evidence and testimony filed concurrently:

- a. Applicant does not have a working interest or any other interest in the EMSU which would allow it to operate a commercial UIC Class II disposal well within the vertical and horizontal limits of the Unit;
- b. Location and operation of the Proposed Well with respect to Empire's EMSU Well No. 200H, an active production well, will damage the production of this well; and
- c. Protestant is studying new oil recovery trends of the San Andres formation in this area and the potential to implement new practices for development of these trends.

11. At hearing on September 15, 2022, Goodnight, through counsel, provided exhibits and testimony at hearing in support of the approval of the injection authority for the Proposed Well.

- a. Applicant proposed an injection interval within the San Andres formation between 4,125 feet and 5,400 feet with the Proposed Well operating at a maximum surface injection

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pressure of 825 pounds per square inch and an estimated daily injection rate of 25,000 barrels of water per day (“BWPD”).

b. The Proposed Well is to be completed using a two-string casing design: 13<sup>3</sup>/<sub>8</sub>-inch surface casing set at 1,445 feet and 9<sup>5</sup>/<sub>8</sub>-inch production casing set at 5,470 feet; both casings completed with cement circulated to surface. Tubing is to be internally coated and have a diameter of 5<sup>1</sup>/<sub>2</sub>-inch or less set with a Baker Hornet packer at approximately 4,100 feet. Perforations for injection are to be between 4,125 feet and 5,400 feet.

c. Applicant states the proposed injection interval is defined by an upper confining layer composed of low-permeable lithologic barrier at the top of the San Andres formation and a lower confining layer defined by the Glorieta formation. Applicant states that the proposed injection interval is sufficiently isolated as not to impact either deeper producing interval or shallower intervals with development through secondary recovery.

d. The proposed injection interval is characterized as depleted reservoir requiring very low injection pressure with some disposal wells demonstrating the ability to inject 28,000 to 35,000 BWPD using only gravity as the injection pressure. Applicant attributes this reservoir condition to the withdrawal of a significant volume of San Andres formation water for use in the EMSU waterflood.

e. Applicant identified three (3) wells out of total of 24 wells that penetrated the proposed injection interval within the one-half mile Area of Review (AOR) of the surface location of the Proposed Well. Two of these wells are active. The Applicant stated the completion information indicates the three wells are properly cased and cemented to prevent vertical migration of injection fluids.

f. Applicant identified nine (9) points of diversion listed in the New Mexico Water Rights Reporting System database that are within one mile of the surface location of the Proposed Well. Of the nine locations, two wells were sampled for this application while another four wells were sampled for other Form C-108 applications in this area.

g. The analyses of produced water samples provided by Applicant indicates that injection fluids contained significantly higher total dissolved solids concentrations than those values provided for the existing formation fluids in the proposed disposal interval.

h. Applicant stated that the Proposed Well is to be part of their “Llano system” which currently is comprised of 80 miles of pipelines, six recycling/re-use facilities, and nine approved UIC Class II disposal wells. The disposal wells were approved for injection into either the San Andres or Glorieta formations with some of the wells having a combination of these two formations as injection intervals.

i. Applicant identified the EMSU Well No. 200H (API No. 30-025-04492) as being completed only in the Grayburg formation and stated its production has not been impacted by

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injection operations that were closer and had been operating for a significant amount of time prior to the submittal of the application for the Proposed Well.

j. Based on its own evaluation, Applicant asserted that the potential for hydrocarbon development of the San Andres formation in this area was not supported by any significant show of hydrocarbons in the vast volume of water produced for the EMSU waterflood operation. Additionally, Applicant stated that the formation was no longer a candidate for development as a Residual Oil Zone (“ROZ”) due to the effects of water production that have altered and degraded the original reservoir conditions.

12. At the same September hearing, Empire appeared through counsel and provided exhibits and testimony regarding the potential impacts on the EMSU with the approval of the Proposed Well.

a. Protestant stated the EMSU was acquired in 2021 with the intent of renewing the operation of the waterflood to increase the performance of the Unit and to assess the entire Unitized Interval for additional hydrocarbon potential. Empire did not provide a plan of development for this project at hearing.

b. Empire exhibits included a recent prospectus by the previous unit operator for renewal of the current waterflood operation and expansion. Protestant also noted that the prior unit operator required an override on production as a condition of the sale.

c. Empire stated that it was assessing the potential of ROZ occurrences which would include the San Andres formation but did not provide any specific details at hearing.

d. Empire maintained that the geologic parameters of the San Andres formation and the current reservoir conditions of the waterflood unit are not fully characterized and that disposal into the Unitized Interval would degrade any future efforts for an increased recovery of the remaining oil in place.

13. NGL Water Solutions Permian, LLC filed an entry of appearance but did not oppose the application at hearing. No other party appeared at hearing or otherwise opposed the granting of this application.

14. Following the hearing of the case in September and prior to an order being issued by the OCD Director, three additional motions were filed by the parties in this case.

a. Goodnight filed a Motion to Compel on November 3, 2022, regarding EMSU Well No. 462 and the required filing of the completion report for well. Empire did not respond to the motion.

b. On January 10, 2023, Goodnight filed a Motion to Withhold Allowable for the EMSU No. 462 contending Empire was noncompliant with OCD rule on the proper filing of Form C-105 for this well thus requiring the OCD to withhold the allowable for the well.

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c. The OCD issued an Order dated January 23, 2023, approving the Motion to Compel by ordering Empire to provide the well information within 15 days or provide a sworn statement that all records for this well have been provided. In the same Order, the Motion to Withhold was denied by the OCD Examiner and later became the subject matter for a separate case, Case No. 23775.

d. On August 25, 2023, Empire filed a Motion to Stay Issuance of Order citing that four pending cases involving protested disposal well applications by Goodnight in the same area should be considered in conjunction with Case No. 22626. Empire contended that the technical evaluation for the pending cases was relevant to Case No. 22626 and that a single order should be issued only after considering the evidence of the pending cases. Goodnight filed a response in opposition to the motion. Subsequently, OCD issued Order No. R-22869 dated September 8, 2023, which denied the Motion to Stay.

### **CONCLUSIONS OF LAW**

1. Applicant provided the information required by 19.15.26 NMAC and the Form C-108 for an application to inject produced water into a Class II UIC well.

2. Applicant complied with the notice requirements of 19.15.4 NMAC.

3. Empire entered an appearance and pre-hearing statement for the case in a proper and timely manner.

4. On November 7 and 8, 1984, the Oil Conservation Commission (“OCC”) heard consolidated Cases No. 8397, No. 8398 and No. 8399 which established the EMSU and the parameters under which the Unit was to operate.

a. Case No. 8397 was an application for statutory unitization of the EMSU and was approved as Commission Order No. R-7765.

b. Case No. 8398 was an application for the waterflood project and operation which was approved as Commission Order No. R-7766.

c. Case No. 8399 was an application for pool extension and contraction for the EMSU which was approved as Commission Order No. R-7767.

5. On December 27, 1984, Commission Order No. R-7765 established the EMSU with the vertical limits including the San Andres formation (Ordering Paragraph (3)). Concurrently, Commission Order No. R-7766 also included the San Andres formation as part of the Unitized Interval (or “Unitized Formation”). Finally, Ordering Paragraphs (1) and (2) of Commission Order No. R-7767 realigned the vertical limits for the shallower Eumont Gas Pool and the deeper Eunice Monument Oil pool [Eunice Monument Grayburg-San Andres pool; pool code 23000]. This

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Order No. R-22869-A  
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separate order on nomenclature changes also reaffirmed that the lower limit of the Eunice Monument Oil pool as the base of the San Andres formation.

6. The Commission approved the inclusion of the San Andres formation in the Unitized Interval based on the Technical Committee findings presented in the hearing for the consolidated cases. The Technical Committee Report (*Proposed Eunice Monument South Unit, Lea County, New Mexico* dated April 1983; "Report") concluded that the southern portion of the Eunice Monument Oil pool should be unitized and a waterflood initiated. The Report further recommended "*The unitized interval shall include the formations from a lower limit defined by the base of the San Andres formation, to an upper limit defined by the top of the Grayburg formation or a -100 foot subsea datum, whichever is higher.*" [Recommendations and page 43]

In the Facility Design section of the Report, the Technical Committee described the following sources of water for use in the operation of the waterflood:

*"The total water requirement will be provided by reinjection of produced water, and from make-up water provided by nine San Andres supply wells. For this cost estimate, the assumption was made that new water supply wells would be drilled; however there is a possibility that existing wellbores may be available which could be purchased and completed in the San Andres."* [Page 29]

The economic evaluation presented in the Report for a waterflood operation in this area of the Eunice Monument Oil pool included the use of formation water of the San Andres to supplement the fluid volumes required to successfully conduct the secondary recovery project. Additionally, the testimony for the consolidated cases emphasized that the San Andres formation water were compatible for use as supplemental injection (or "make-up") water for the waterflood operation.

7. Chevron USA, Incorporated, as subsequent Unit operator of the EMSU, expanded the use of San Andres formation waters for the waterflood operation with the completion and operation of six (6) water supply wells. The volume of formation water produced from these wells for use in the waterflood was estimated at approximately 348 million barrels.

8. The same Unitized Interval (with the San Andres formation included) was later presented in the testimony for Case No. 10253 which resulted in Order No. R-9494 for the approval of the North Monument Grayburg-San Andres Unit. From the hearing transcript dated April 4, 1991 [Pages 25 and 26], the testimony of the Amerada Hess expert summarized the reasons for the inclusion of the formation:

*Question: Now does Amerada Hess propose to interject both the Grayburg and the San Andres?*

*Answer: We propose to inject into the Grayburg formation. The primary target for this injection are the lower two zones, Zones 3 and 3C.*

*Question: Why is the San Andres included in this application?*

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*Answer: The San Andres is included for three reasons: Number one, the San Andres may be a source of water for the injection. Number two, there is potential for tertiary production from the San Andres. And thirdly, this interval is comparable to the unitized intervals in the Eunice Monument South.*

9. The approval of both Statutory Units with the inclusion of the San Andres formation in the Unitized Interval is consistent with the OCC recognition of this formation as critical element for a successful waterflood operation and for the potential of undeveloped hydrocarbon resources. This approval is concordant with the authority provided to the OCC under the provisions of NMSA 1978, §70-7-7(J) which states that the Division order providing for unitization and unit operation of a pool or part of a pool shall include “*such additional provisions as are found to be appropriate for carrying on the unit operations and for the protection of correlative rights and the prevention of waste.*”

10. Applicant’s proposed operation for the Proposed Well would expand the use of the San Andres formation as a disposal interval. Approval of the Proposed Well with the injection of UIC Class II fluids into the Unitized Interval would encroach towards the northeast and the interior of the EMSU and the use of the San Andres formation as a compatible source of make-up water for waterflood operations.

11. Empire has provided sufficient evidence for continued assessment of the Unitized Interval for potential recovery of any additional hydrocarbon resources remaining in place. Approval of the Proposed Well would contradict the responsibility of the OCD “*to prevent the drowning by water of any stratum or part thereof capable of producing oil or gas or both oil and gas in paying quantities and to prevent the premature and irregular encroachment of water or any other kind of water encroachment that reduces or tends to reduce the total ultimate recovery of crude petroleum oil or gas or both oil and gas from any pool.*”


#### **IT IS THEREFORE ORDERED THAT:**

1. The application of Goodnight Midstream Permian, LLC for authority to inject produced water into the San Andres formation using the proposed Piazza SWD Well No. 1 as a UIC Class II disposal well is hereby **denied**.

2. Empire New Mexico, LLC, as the unit operator of the Eunice Monument South Unit, shall comply with Commission Order No. R-7766, Ordering Paragraph (8) and reinstitute submitting monthly reports for the waterflood project. The unit operator shall provide these reports to OCD through the OCD Engineering e-mail ([ocd.engineer@emnrn.nm.gov](mailto:ocd.engineer@emnrn.nm.gov)) with electronic copies also provided to the New Mexico State Land Office (“NMSLO”) and the appropriate office of the Bureau of Land Management. OCD shall have the authority without hearing to reduce the reporting frequency to biannual two years after the approval of this order. Additionally, Empire shall provide a copy of any Plans of Operation and/or Plans of Development that are annually submitted to the NMSLO for this Unit.

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Order No. R-22869-A  
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3. Jurisdiction is retained by the OCD for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh or protectable waters or (2) consistent with the requirements in this order; whereupon the OCD may, after notice and hearing or prior to notice and hearing in event of an emergency, terminate the disposal authority granted herein.



**DYLAN M. FUGE**  
**DIRECTOR (Acting)**

**Date:** 11/29/23

DMF/prg





May 12, 2023

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

Subject: Goodnight Midstream Permian, LLC – Doc Gooden SWD # 1  
Application for Authorization to Inject

To Whom It May Concern,

On behalf of Goodnight Midstream Permian, LLC (Goodnight), ALL Consulting, LLC (ALL) is submitting the enclosed Application for Authorization to Inject for the Doc Gooden SWD #1, a proposed salt water disposal well, in Lea County, NM.

Should you have any questions regarding the enclosed application, please contact Nate Alleman at (918) 382-7581 or [nalleman@all-llc.com](mailto:nalleman@all-llc.com).

Sincerely,  
ALL Consulting

Nate Alleman  
Sr. Regulatory Specialist

BEFORE THE OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
Exhibit No. A-4  
Submitted by: Goodnight Midstream Permian, LLC  
Hearing Date: September 23, 2024  
Case Nos. 23614-23617, 23775,  
24018 – 24020, 24025, 24123

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ALL Consulting  
Phone 918.382.7581

1718 South Cheyenne Ave.  
Fax 918.382.7582

Tulsa, OK 74119  
[www.ALL-LLC.com](http://www.ALL-LLC.com)



RECEIVED:	REVIEWER:	TYPE:	APP NO:
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Geological & Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: \_\_\_\_\_ OGRID Number: \_\_\_\_\_  
 Well Name: \_\_\_\_\_ API: \_\_\_\_\_  
 Pool: \_\_\_\_\_ Pool Code: \_\_\_\_\_

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW**

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]  
 A. Location – Spacing Unit – Simultaneous Dedication  
 NSL       NSP (PROJECT AREA)       NSP (PRORATION UNIT)       SD
- B. Check one only for [ I ] or [ II ]  
 [ I ] Commingling – Storage – Measurement  
 DHC    CTB    PLC    PC    OLS    OLM  
 [ II ] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery  
 WFX    PMX    SWD    IPI    EOR    PPR

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.  
 A.  Offset operators or lease holders  
 B.  Royalty, overriding royalty owners, revenue owners  
 C.  Application requires published notice  
 D.  Notification and/or concurrent approval by SLO  
 E.  Notification and/or concurrent approval by BLM  
 F.  Surface owner  
 G.  For all of the above, proof of notification or publication is attached, and/or,  
 H.  No notice required

<u>FOR OCD ONLY</u>	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	Application Content Complete

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

\_\_\_\_\_  
Date

Print or Type Name

*Nathan Allen*  
\_\_\_\_\_  
Signature

\_\_\_\_\_  
Phone Number

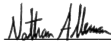
\_\_\_\_\_  
e-mail Address

STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL  
RESOURCES DEPARTMENT

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

FORM C-108  
Revised June 10, 2003

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance   X   Disposal  
\_\_\_\_\_ Storage Application qualifies for administrative approval?   X   Yes \_\_\_\_\_ No
- II. OPERATOR: Goodnight Midstream Permian, LLC  
ADDRESS: 5910 N Central Expressway, Suite 850, Dallas, TX 75206  
CONTACT PARTY: Grant Adams PHONE: 214-444-7388(0)
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? \_\_\_\_\_ Yes   X   No  
If yes, give the Division order number authorizing the project: \_\_\_\_\_
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
  1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- \*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.  
NAME: Nathan Alleman TITLE: Sr. Regulatory Specialist  
SIGNATURE:  DATE: 5/12/2023  
E-MAIL ADDRESS: nalleman@all-llc.com
- XV. If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: \_\_\_\_\_

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

Side 2

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Application for Authorization to Inject  
 Well Name: Doc Gooden SWD #1

**III – Well Data** (*The Wellbore Diagram is included as Attachment 1*)

A.

**(1) General Well Information:**

Operator: Goodnight Midstream Permian, LLC (OGRID No. 372311)  
 Lease Name & Well Number: Doc Gooden SWD #1  
 Location Footage Calls: 1,596 FSL & 1,334 FEL  
 Legal Location: Unit Letter J, S3 T21S R36E  
 Ground Elevation: 3,548’  
 Proposed Injection Interval: 4,200’ – 4,900’  
 County: Lea

**(2) Casing Information:**

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	17-1/2"	13-3/8"	54.5 lb./ft	1,370’	1,180	Surface	Circulation
Production	12-1/4"	9-5/8"	40.0 lb./ft	5,000’	1,400	Surface	Circulation
Tubing	N/A	5-1/2"	17.0 lb./ft	4,150’	N/A	N/A	N/A

**(3) Tubing Information:**

5-1/2” (composite weight string) of fiberglass-coated tubing with setting depth of 4,150’

**(4) Packer Information:** Baker Hornet or equivalent packer set at 4,150’

B.

**(1) Injection Formation Name:** San Andres

**Pool Name:** SWD; SAN ANDRES

**Pool Code:** 96121

**(2) Injection Interval:** Perforated injection between 4,200’ – 4,900’

**(3) Drilling Purpose:** New Drill for Salt Water Disposal

**(4) Other Perforated Intervals:** No other perforated intervals exist.

**(5) Overlying Oil and Gas Zones:** Below are the approximate formation tops for known oil and gas producing zones in the area.

- Grayburg (3,642’)

**Underlying Oil and Gas Zones:** Below is the approximate formation tops for known oil and gas producing zones in the area.

- Glorieta (5,205’)
- Tubb (6,810’)

## V – Well and Lease Maps

The following maps are included in **Attachment 2**:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List with Penetrating Well Casing and Plugging Information.
- Plugged Penetrating Wellbore Diagrams.
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

## VI – AOR Well List

A list of the wells within the 1/2-mile AOR is included in **Attachment 2**.

There are 21 wells that penetrate the injection zone, 12 of which has been properly plugged and abandoned, while the other 9 wells have been properly cased and cemented to isolate the San Andres. A wellbore diagram and casing information for each of these wells is included in **Attachment 2**.

## VII – Proposed Operation

- (1) **Proposed Maximum Injection Rate:** 42,000 bpd  
**Proposed Average Injection Rate:** 27,500 bpd
- (2) A closed system will be used.
- (3) **Proposed Maximum Injection Pressure:** 840 psi (surface)  
**Proposed Average Injection Pressure:** approximately 537 psi (surface)
- (4) **Source Water Analysis:** It is expected that the injectate will consist of produced water from production wells completed in the Delaware Mountain Group (DMG), Wolfcamp, and Bone Springs formations. Analysis of water from these formations is included in **Attachment 3**.
- (5) **Injection Formation Water Analysis:** The proposed SWD will be injecting water into the San Andres formation which is a non-productive zone known to be compatible with formation water from the DMG, Wolfcamp and Bone Springs formations. Water analyses from the San Andres formation in the area are included in **Attachment 4**.

## VIII – Geologic Description

The proposed injection interval includes the San Andres formation from 4,200 – 4,900 feet. The Permian San Andres formation consists of interbedded carbonates rock including dolomites, siltstones and sands. Several thick intervals of porous and permeable carbonate rock capable of taking water are present within the subject formation in the area.

The deepest underground source of groundwater (USDW) is the Rustler formation at a depth of approximately 1,345 feet. Water well depths in the area range from approximately 129 – 181 feet below ground surface.

### **IX – Proposed Stimulation Program**

A small cleanup acid job may be used to remove mud and drill cuttings from the formation. However, no other formation stimulation is currently planned.

### **X – Logging and Test Data**

Logs will be submitted to the Division upon completion of the well.

### **XI – Fresh Groundwater Samples**

Based on a review of data from the New Mexico Office of the State Engineer, 8 groundwater wells are located within 1 mile of the proposed SWD location. As such two of the groundwater wells located within one mile have been sampled (L-14815 POD 1 on 05/05/2023 and CP-01039 POD 1 on 9/9/2021).

A water well map, details of water wells within 1-mile, and water sampling results for CP-011039 POD 1 and L-14815 POD 1 are included in **Attachment 5**.

### **XII – No Hydrologic Connection Statement**

No faulting is present in the area that would provide a hydrologic connection between the injection interval and overlying USDWs. Additionally, the casing program has been designed to ensure there will be no hydrologic connection between the injection interval and overlying USDWs.

A signed no hydrological connection statement is included as **Attachment 7**.

### **XIII – Proof of Notice**

A Public Notice was filed with the Hobbs News-Sun newspaper and an affidavit is included in **Attachment 6**.

A copy of the application was mailed to the OCD District Office, landowner, and leasehold operators within 1/2-mile of the proposed SWD location. A list of the recipients, as well as delivery confirmations, are included in **Attachment 6**.

# Attachments

**Attachment 1:** Well Details:

- C-102
- Wellbore Diagram

**Attachment 2:** Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- Wellbore Diagrams - Plugged penetrating wells
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

**Attachment 3:** Source Water Analyses

**Attachment 4:** Injection Formation Water Analyses

**Attachment 5:** Water Well Map and Well Data

**Attachment 6:** Public Notice Affidavit and Notice of Application Confirmations

**Attachment 7:** No Hydrological Connection Statement

**Attachment 1**

- C-102
- Wellbore Diagram



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

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-	Pool Code 96121	Pool Name SWD; SAN ANDRES
Property Code	Property Name DOC GOOGEN SWD	Well Number 1
OGRID No. 372311	Operator Name GOODNIGHT MIDSTREAM PERMIAN, LLC	Elevation 3548'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	3	21 S	36 E		1596'	SOUTH	1334'	EAST	LEA

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
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.*

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

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

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

---

**SURVEYOR CERTIFICATION**

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

05/02/2023

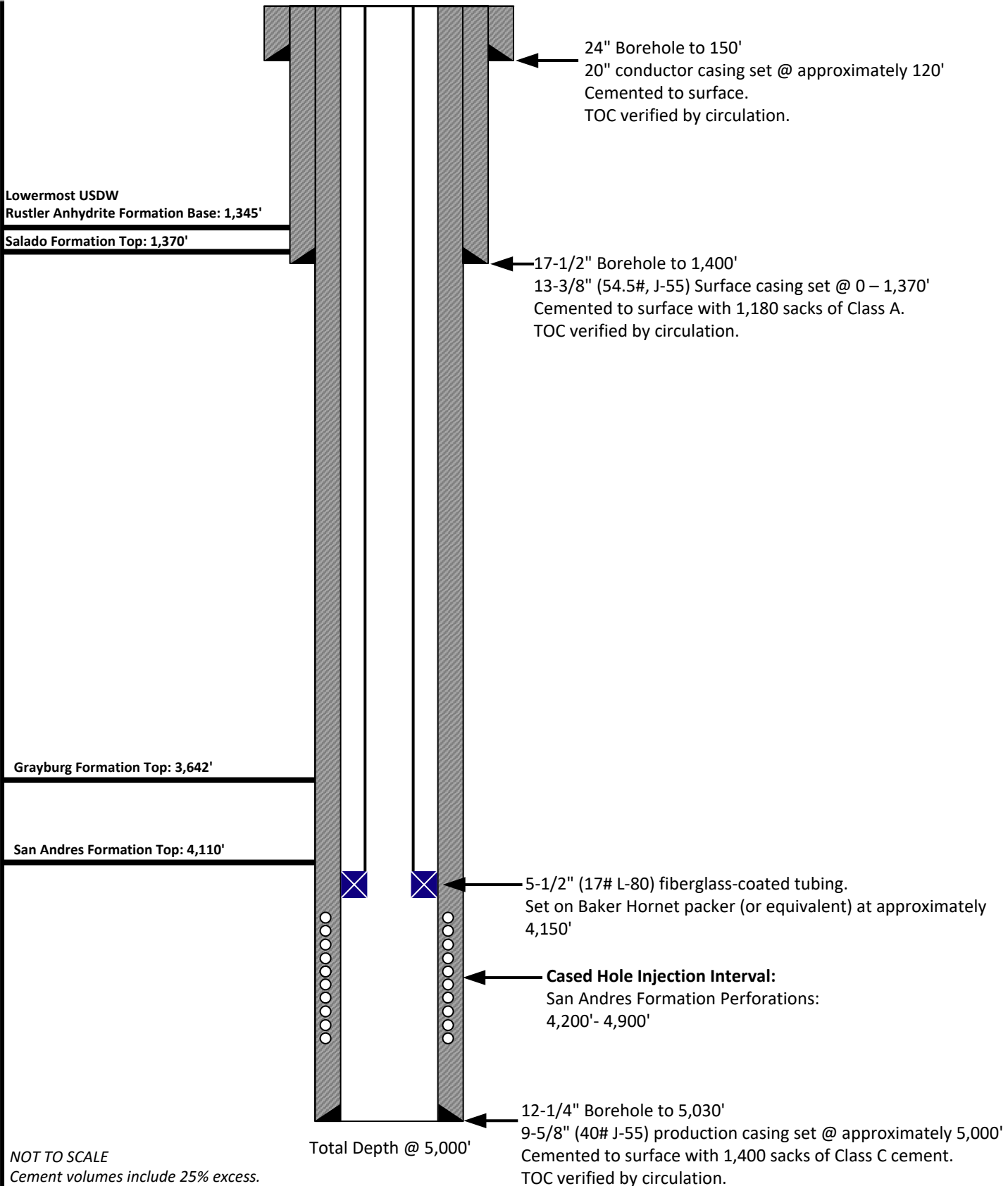
Date of Survey

Signature and Seal of Professional Surveyor



Certificate Number

21209

TIM C. PAPPAS



NOT TO SCALE  
Cement volumes include 25% excess.  
Anticipated daily maximum volume: 42,000 bwpd  
Maximum surface Injection Pressure: 840 psig  
(0.2 psi/ft to the top of the injection interval)

<p>Prepared by:</p>  <p>Prepared for:</p> 	<p>Drawn by: Joshua Ticknor, P.E.</p>	<p><b>Goodnight Midstream Permian, LLC</b> Proposed Wellbore Diagram Doc Gooden SWD #1 1,596' FSL &amp; 1,334' FEL Section 3, Twp 21 S, Rng 36 E Lea County, New Mexico</p>
	<p>Project Manager: Nathan Alleman</p>	
	<p>Date: 4/11/2023</p>	

## HORNET Packer

Product Family No. H64682

## HORNET EL Packer

Product Family No. H64683

The mechanically set HORNET™ packer offers ease of operation with quarter-turn right to set and release. Converting it for wireline-setting applications is simple and inexpensive. The HORNET packer provides for landing in compression, tension, or neutral positions. Every component from the jay track, to the internal bypass, to the packing-element system and the upper slip assembly has been developed to ensure the HORNET's setting and releasing reliability.

The HORNET EL packer is run and set on electric line using an E-4™ (Product Family No. H43702) with a slow-set power charge or a J™ setting tool (Product Family No. H41371) and a special wireline adapter kit. An L-10™ type on/off seal nipple is run on top of the packer to connect the tubing to the packer and to house a blanking plug when the packer is used as a temporary bridge plug.

### Features and Benefits

- Upper Slip Assembly:
  - Thoroughly tested across API minimum to maximum casing ID tolerances for each specified casing weight, for setting and releasing reliability
  - Slip-wicker configuration providing bidirectional-load support with solid upper cone to support highest tensile loads
  - Staged-release action eliminates high-overpull requirement
  - Minimal set-down weight required to anchor slips
- Internal Bypass Seal:
  - Durable bypass seal design provides sealing after unloading, under differential pressures
  - No O-ring sealing system
- Packing Element System:
  - Fully tested to combined ratings at the API's maximum ID tolerance
  - Patented enhancements to control overboost
  - High-performance, three-piece element system
- Lower Slip and Jay Assembly:
  - Slips and drag blocks tested to maximum API tolerance ID for positive set and ease of release
  - One-quarter-turn right setting and releasing action
  - Packoff of packing elements with applied tension or compression
  - Spacing in jay ensures opening of internal bypass, before slip releasing action begins—important to both ease of release and safety
  - Automatically returns to running position



HORNET Packer  
Product Family  
No. H64682

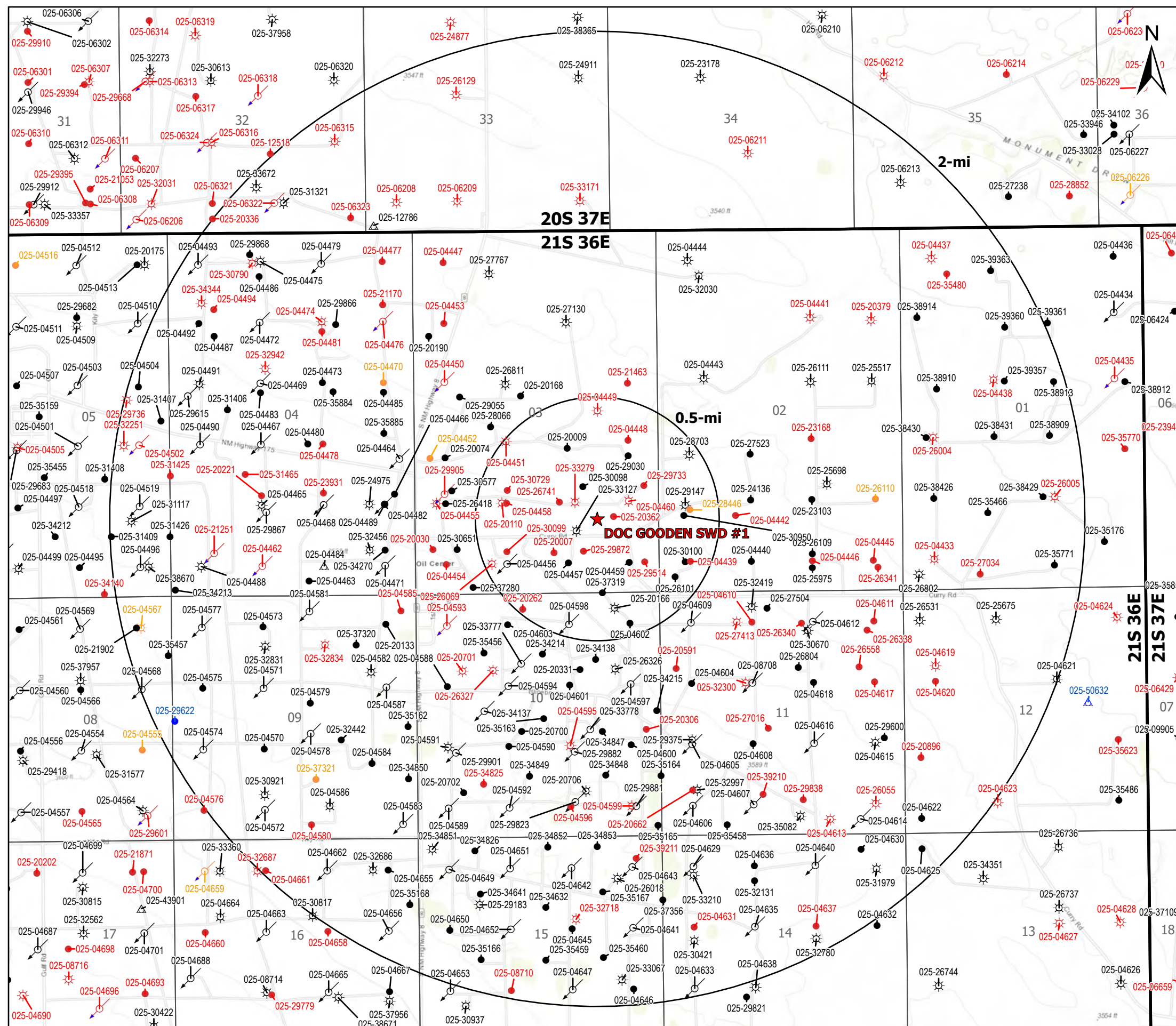
HORNET EL Packer  
Product Family  
No. H64683

## **Attachment 2**

### Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- Wellbore Diagrams - Plugged penetrating wells
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map





- ### Legend
- ★ Proposed SWD
  - ☼ Gas, Active (85)
  - ☼ Gas, Plugged (54)
  - ☼ Gas, Temporarily Abandoned (1)
  - ↻ Injection, Active (81)
  - ↻ Injection, Plugged (19)
  - ↻ Injection, Temporarily Abandoned (2)
  - Oil, Active (148)
  - Oil, New (1)
  - Oil, Plugged (89)
  - Oil, Temporarily Abandoned (7)
  - △ Salt Water Injection, Active (3)
  - △ Salt Water Injection, New (1)

Source Info: NMOCD O&G Wells updated 1/17/2023  
 (https://www.emnrd.nm.gov/ocd/ocd-data/ftp-server/)

<b>O&amp;G Wells Area of Review</b>		
<b>DOC GOODEN SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM		Prepared by: <b>ALLCONSULTING</b>

### AOR Tabulation for Doc Gooden SWD #1 (Injection Interval: 4,200' - 4,900')

Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Penetrate Inj. Zone?
J A AKENS #008	30-025-20007	Plugged	CHESAPEAKE OPERATING, INC.	6/17/1963	W-03-21S-36E	(Plugged) 6,300	Yes
J A AKENS #007	30-025-20110	Plugged	CHESAPEAKE OPERATING, INC.	12/12/1969	S-03-21S-36E	(Plugged) 6,300	Yes
J A AKENS #011	30-025-26741	Plugged	CHESAPEAKE OPERATING, INC.	5/29/1980	R-03-21S-36E	(Plugged) 6,300	Yes
J A AKENS #014	30-025-29872	Plugged	CHESAPEAKE OPERATING, INC.	3/24/1987	W-03-21S-36E	(Plugged) 7,000	Yes
STATE G #001	30-025-04439	Plugged	CHEVRON U S A INC	5/1/1937	U-02-21S-36E	(Plugged) 3,852	No
EVANS STATE #003	30-025-04449	Plugged	CHEVRON U S A INC	9/19/1953	P-03-21S-36E	(Plugged) 3,587	No
EUNICE MONUMENT SOUTH UNIT #233	30-025-04451	Plugged	CHEVRON U S A INC	1936	F-03-21S-36E	(Plugged) 3,875	No
J A AKENS #006	30-025-04460	Plugged	CHEVRON U S A INC	10/2/1937	I-03-21S-36E	(Plugged) 3,834	No
USA J A AKENS #009	30-025-20362	Plugged	CHEVRON U S A INC	9/25/1963	I-03-21S-36E	(Plugged) 6,296	Yes
J A AKENS #010	30-025-26069	Plugged	CHEVRON U S A INC	9/16/1978	N-03-21S-36E	(Plugged) 6,319	Yes
USA J A AKENS #012	30-025-29514	Plugged	CHEVRON U S A INC	12/3/1985	P-03-21S-36E	(Plugged) 7,000	Yes
J A AKENS #013	30-025-29733	Plugged	CHEVRON U S A INC	8/29/1996	I-03-21S-36E	(Plugged) 6,950	Yes
J A AKENS #016	30-025-30099	Plugged	CHEVRON U S A INC	12/8/1987	N-03-21S-36E	(Plugged) 7,000	Yes
J A AKENS #019	30-025-30729	Plugged	CHEVRON U S A INC	11/27/1989	K-03-21S-36E	(Plugged) 7,000	Yes
J A AKENS #021	30-025-33279	Plugged	CHEVRON U S A INC	2/17/1996	J-03-21S-36E	(Plugged) 3,700	No
Evens-State #002	30-025-04448	Plugged	Devonian Oil Company	3/31/1937	P-03-21S-36E	(Plugged) 3,848	No
EVANS STATE #004	30-025-20009	Oil	DIAMOND S ENERGY COMPANY	7/12/1963	G-03-21S-36E	6,916	Yes
EVANS STATE #007	30-025-29030	Oil	DIAMOND S ENERGY COMPANY	12/20/1984	H-03-21S-36E	6,900	Yes
EUNICE MONUMENT SOUTH UNIT #263	30-025-04456	Injection	Empire New Mexico LLC	8/19/1936	N-03-21S-36E	3,872	No
EUNICE MONUMENT SOUTH UNIT #236	30-025-04458	Plugged	Empire New Mexico LLC	4/24/1972	S-03-21S-36E	(Plugged) 3,963	No
EUNICE MONUMENT SOUTH UNIT #265	30-025-04459	Oil	Empire New Mexico LLC	12/14/1936	P-03-21S-36E	3,852	No
EUNICE MONUMENT SOUTH UNIT #275	30-025-04598	Injection	Empire New Mexico LLC	8/6/1936	B-10-21S-36E	3,901	No
EUNICE MONUMENT SOUTH UNIT #274	30-025-04602	Oil	Empire New Mexico LLC	12/12/1936	A-10-21S-36E	3,865	No
JOHN D KNOX #009	30-025-20166	Gas	Empire New Mexico LLC	10/6/1963	A-10-21S-36E	6,220	Yes
EUNICE MONUMENT SOUTH UNIT #266	30-025-26101	Oil	Empire New Mexico LLC	10/31/1978	U-02-21S-36E	3923	No
J F JANDA NCT D #003	30-025-28446	Oil	Empire New Mexico LLC	11/15/1983	T-02-21S-36E	(TA) 5,929	Yes
J F JANDA NCT D #004	30-025-28703	Gas	Empire New Mexico LLC	5/23/1984	M-02-21S-36E	6,794	Yes
J F JANDA NCT D #005	30-025-29147	Gas	Empire New Mexico LLC	2/28/1985	L-02-21S-36E	6,900	Yes
EUNICE MONUMENT SOUTH UNIT #660	30-025-37319	Oil	Empire New Mexico LLC	10/19/2005	P-03-21S-36E	4,450	Yes
BLINEBRY OIL COM NO 1 #001	30-025-20262	Plugged	EXXON MOBIL CORPORATION	7/26/1963	C-10-21S-36E	(Plugged) 6,180	Yes
J A AKENS #015	30-025-30098	Oil	SOUTHWEST ROYALTIES INC	11/16/1987	J-03-21S-36E	7000	Yes
NEW MEXICO G STATE #001	30-025-30100	Oil	SOUTHWEST ROYALTIES INC	10/15/1987	M-02-21S-36E	7,030	Yes
J A AKENS #020	30-025-33127	Gas	SOUTHWEST ROYALTIES INC	10/23/1995	R-03-21S-36E	3,700	No
EUNICE MONUMENT SOUTH UNIT #264	30-025-04457	Oil	XTO ENERGY, INC	9/26/1936	W-03-21S-36E	3,859	No
J F JANDA NCT D #006	30-025-30950	Oil	XTO ENERGY, INC	9/9/1990	L-02-21S-36E	5,350	Yes

**Note:** A review of available NMOCD well records for 30-025-04451 did not identify an exact spud date, however drilling records did state that the well was spudded and completed in 1936.

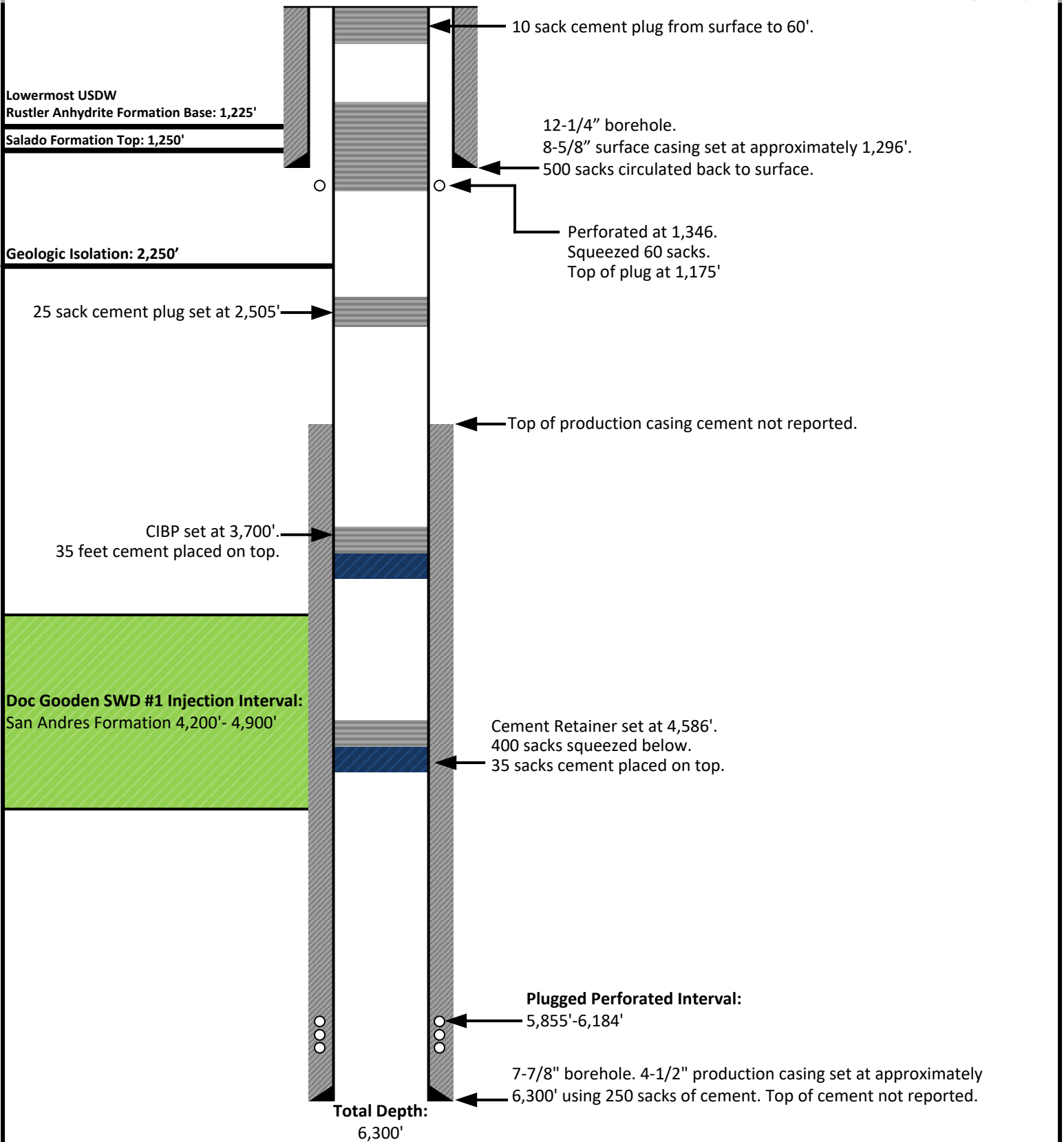


Well Name	Casing Information for Wells Penetrating the Doc Gooden SWD #1 Injection Zone											
	Surface Casing						Intermediate Casing					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole size	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
J A AKENS #008	1296'	8.625"	Surface	Circulation	500	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
EVANS STATE #004	1279'	8.625"	Surface	Circulation	400	11"	N/A	N/A	N/A	N/A	N/A	N/A
J A AKENS #007	1288'	8.625"	Surface	Circulation	500	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
JOHN D KNOX #009	1316'	7.625"	Surface	Circulation	450	9.875"	N/A	N/A	N/A	N/A	N/A	N/A
BLINEBRY OIL COM NO 1 #001	1333'	7.625"	Surface	Circulation	450	9.875"	N/A	N/A	N/A	N/A	N/A	N/A
USA J A AKENS #009	1280'	8.625"	Surface	Circulation	500	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
J A AKENS #010	1304'	8.625"	Surface	Circulation	600	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
J A AKENS #011	1290'	8.625"	Surface	Circulation	600	11"	N/A	N/A	N/A	N/A	N/A	N/A
J F JANDA NCT D #003	1145'	8.625"	Surface	Circulation	550	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
J F JANDA NCT D #004	418'	13.375"	Surface	Circulation	450	17.5"	2707'	8.625"	Surface	Circulation	850	11"
EVANS STATE #007	474'	13.375"	Surface	Circulation	500	17.5"	2686'	8.625"	Surface	Circulation	850	11"
J F JANDA NCT D #005	425'	11.75"	Surface	Circulation	350	14.75"	2680'	8.625"	Surface	Circulation	750	11"
USA J A AKENS #012	407'	13.375"	Surface	Circulation	450	17.5"	2700'	8.625"	Surface	Circulation	1350	11"
J A AKENS #013	404'	13.375"	Surface	Circulation	475	17.5"	2690'	8.625"	Surface	Circulation	1150	11"
J A AKENS #014	416'	13.375"	Surface	Circulation	425	17.5"	2700'	8.625"	Surface	Circulation	1100	11"
J A AKENS #015	1345'	13.375"	Surface	Circulation	1425	17.5"	4900'	8.625"	Surface	Circulation	1200	11"
J A AKENS #016	1363'	13.375"	Surface	Circulation	1425	17.5"	4900'	8.625"	Surface	Circulation	1750	11"
NEW MEXICO G STATE #001	1350'	13.375"	Surface	Circulation	1425	17.5"	4758'	8.625"	2400'	Temp. Survey	1375	11"
J A AKENS #019	400'	13.375"	Surface	Circulation	525	17.5"	3970'	8.625"	Surface	Circulation	1450	11"
J F JANDA NCT D #006	1303'	8.625"	Surface	Circulation	870	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #660	1200'	8.625"	Surface	Circulation	565	12.25"	N/A	N/A	N/A	N/A	N/A	N/A

Well Name	Production Casing , Intermediate II Casing, or Liner						Production Casing II & Liner					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
J A AKENS #008	6300'	4.5"	Unknown	Unknown	250	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
EVANS STATE #004	5990'	4.5"	2750'	Temp. Survey	500	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J A AKENS #007	6300'	4.5"	2625'	Temp. Survey	700	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
JOHN D KNOX #009	6220'	4.5"	2500'	Temp. Survey	500	6.75"	N/A	N/A	N/A	N/A	N/A	N/A
BLINEBRY OIL COM NO 1 #001	6168'	4.5"	2400'	Temp. Survey	500	6.75"	N/A	N/A	N/A	N/A	N/A	N/A
USA J A AKENS #009	6296'	5.5"	3308'	Temp. Survey	550	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J A AKENS #010	6319'	5.5"	550'	Temp. Survey	1450	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J A AKENS #011	6300'	5.5"	Surface	Circulation	1950	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J F JANDA NCT D #003	4343'	5.5"	Surface	Circulation	2550	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J F JANDA NCT D #004	6793'	5.5"	Surface	Circulation	1700	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
EVANS STATE #007	6900'	5.5"	1390'	Temp. Survey	1350	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J F JANDA NCT D #005	6900'	5.5"	Surface	Circulation	1300	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
USA J A AKENS #012	7000'	5.5"	1200'	Temp. Survey	1100	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J A AKENS #013	6950'	5.5"	2700'	Temp. Survey	1050	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J A AKENS #014	7000'	5.5"	2500'	Temp. Survey	1000	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J A AKENS #015	7000'	5.5"	3272'	Temp. Survey	675	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J A AKENS #016	7000'	5.5"	Surface	Circulation	1270	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
NEW MEXICO G STATE #001	7030'	5.5"	3694'	Temp. Survey	800	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J A AKENS #019	7000'	5.5"	3630'	Temp. Survey	600	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
J F JANDA NCT D #006	5350'	5.5"	Surface	Circulation	1825	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #660	5450'	5.5"	Surface	Circulation	660	7.875"	N/A	N/A	N/A	N/A	N/A	N/A

Well Name	Plugging Information
J A AKENS #008	Pumped 400 sks cement at 4586'. Set CIBP at 4586' and set 35 sks cement on top. Set CIBP at 3700' and set 35 sks cement on top. Plugs set at 2505' with 25 sks, perfed at 1346' and plugged with 60 sks cement, 0 - 60' with 10
EVANS STATE #004	-
J A AKENS #007	Spot 55 sks ar 3350'. Tag cement at 2793'. Perf at 1338' and pump 375 sks. TOC at surface. CIBP set at 3532' with 35 sks cement. Plugged perforated intervals at 2919' - 3350' and 5849' - 6173'.
JOHN D KNOX #009	-
BLINEBRY OIL COM NO 1 #001	Set CIBP @ 5758' with 25 sks cement on top. Spot 25 sks cement from 2345' - 2703'. Perforate 4.5" casing at 1400' and squeeze 55 sks from 1285' - 1400'. Perforate 4.5" casing at 400' and circulate 95 sks cement to surface.
USA J A AKENS #009	Set CIBP at 5145'. Set plugs at 3941' - 4925' with 90 sks. Perfed and squeezed cement from 2401' - 2657' with 35 sks, Perfed and squeezed at 1330' with 75 sks, perfed and circulated 115 sks from 0 - 350'.
J A AKENS #010	Cement bridge plugs at 5825 - 5862, 5205 - 5227, 3255 - 3292. Spot 175 sks from 2337' - 3454' and 1089' - 2337' with 125 sks. Perfed and circulated cement from 0 - 350' with 70sks.
J A AKENS #011	Plugs set at 5605'' - 5792' with 25 sks, 3760' - 3954' with 25 sks, 2571' - 2615' with 25 sks, 1054' - 1401' with 35 sks, 0 - 404' with 45 sks.
J F JANDA NCT D #003	TA with CIBP set @3,670' with 4 sx. TOC @3,633'
J F JANDA NCT D #004	-
EVANS STATE #007	-
J F JANDA NCT D #005	-
USA J A AKENS #012	Set CIBP at 3400' with 36 ft cement. Spot cement at 3109' - 3357' with 25 sks & 2551' - 2800' with 25 sks. Perf and squeeze 75 sks cement from 1111' - 1325' and 165 sks from 0 - 450'.
J A AKENS #013	Set CIBP at 6475' with 50 sks cement (TOC at 6118'. Spot cement at 5005' - 5232' with 25 sks, 3250' - 3932' with 75 sks, perf at 2695' and pumped 40 sks from 2435' - 2770'. Perf and squeeex 105 sks from 794' - 1450' and 85 sks
J A AKENS #014	Could not get past 2138' during abandonment. Pumped 800 sks cement displaced to 2077'. Perf and squeeze cement at 1200' with 115 sks (TOC at 1108') and 466' with 170 sks to surface.
J A AKENS #015	-
J A AKENS #016	Set CIBP at 6491' with 50 sks cement, Spot cement from 4762' - 5305' 55 sks, 2280' - 3932' with 150 sks, 1049' - 1448' with 45 sks, and 0- 350' with 44 sks.
NEW MEXICO G STATE #001	-
J A AKENS #019	Set CIBP at 6400' with 100 sks cement. Spot cement at 5020' - 5245' with 25 sks, and 3542' - 4020' with 55 sks. Perf and squeeze 330 sks from 2274' - 3400'. Perfed at 1450' and pumped 360 sks cement to surface.
J F JANDA NCT D #006	-
EUNICE MONUMENT SOUTH UNIT #660	-





Not to Scale

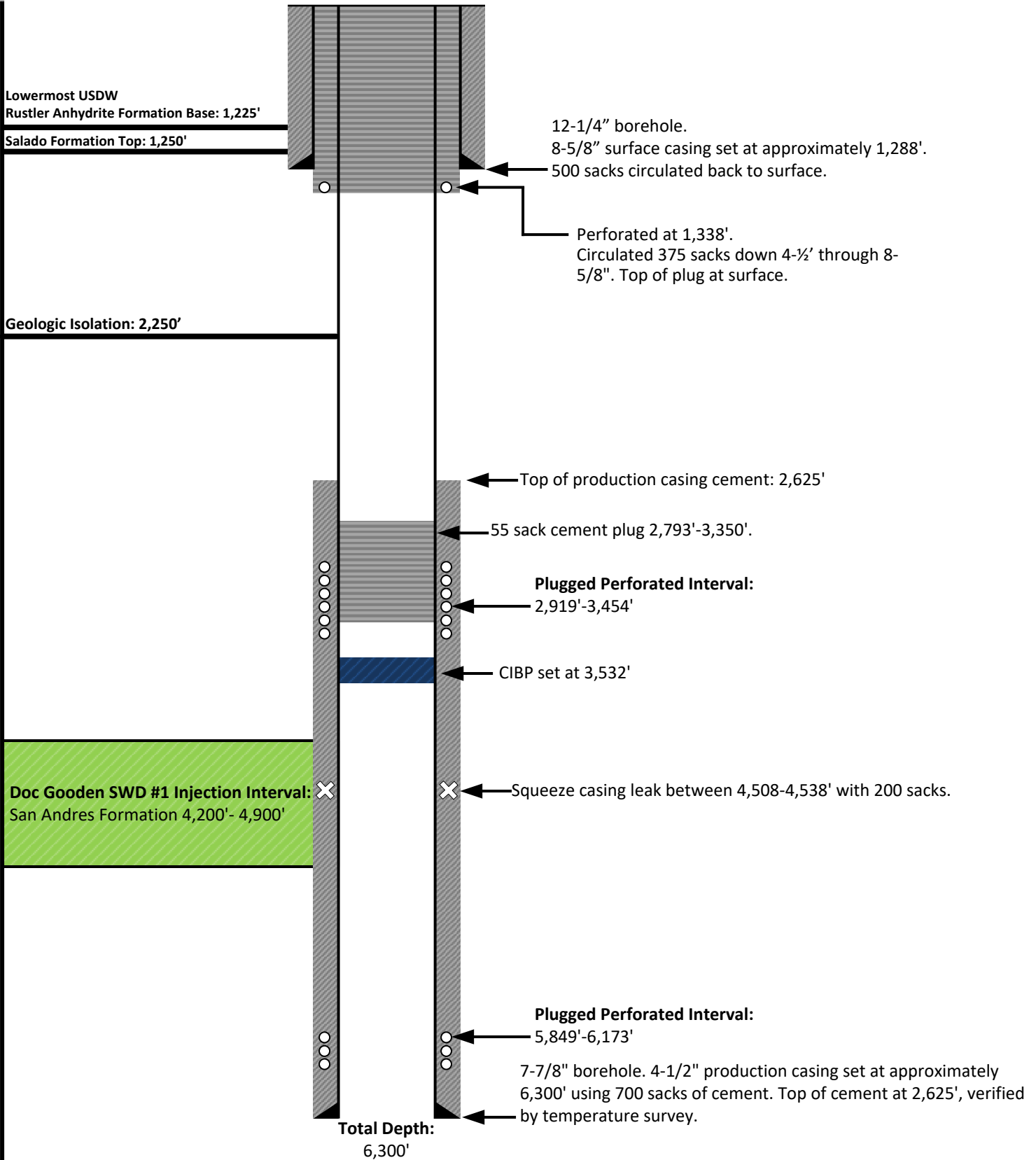
Prepared by:  
  
 Prepared for:  


Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 05/05/2023

J A Akens #008  
 Wellbore Diagram  
 API: 30-025-20007  
 Spud Date: 06/17/1963  
 Plugged and Abandoned: 07/23/2008  
 Operated By: Chesapeake Operating Inc.



Not to Scale

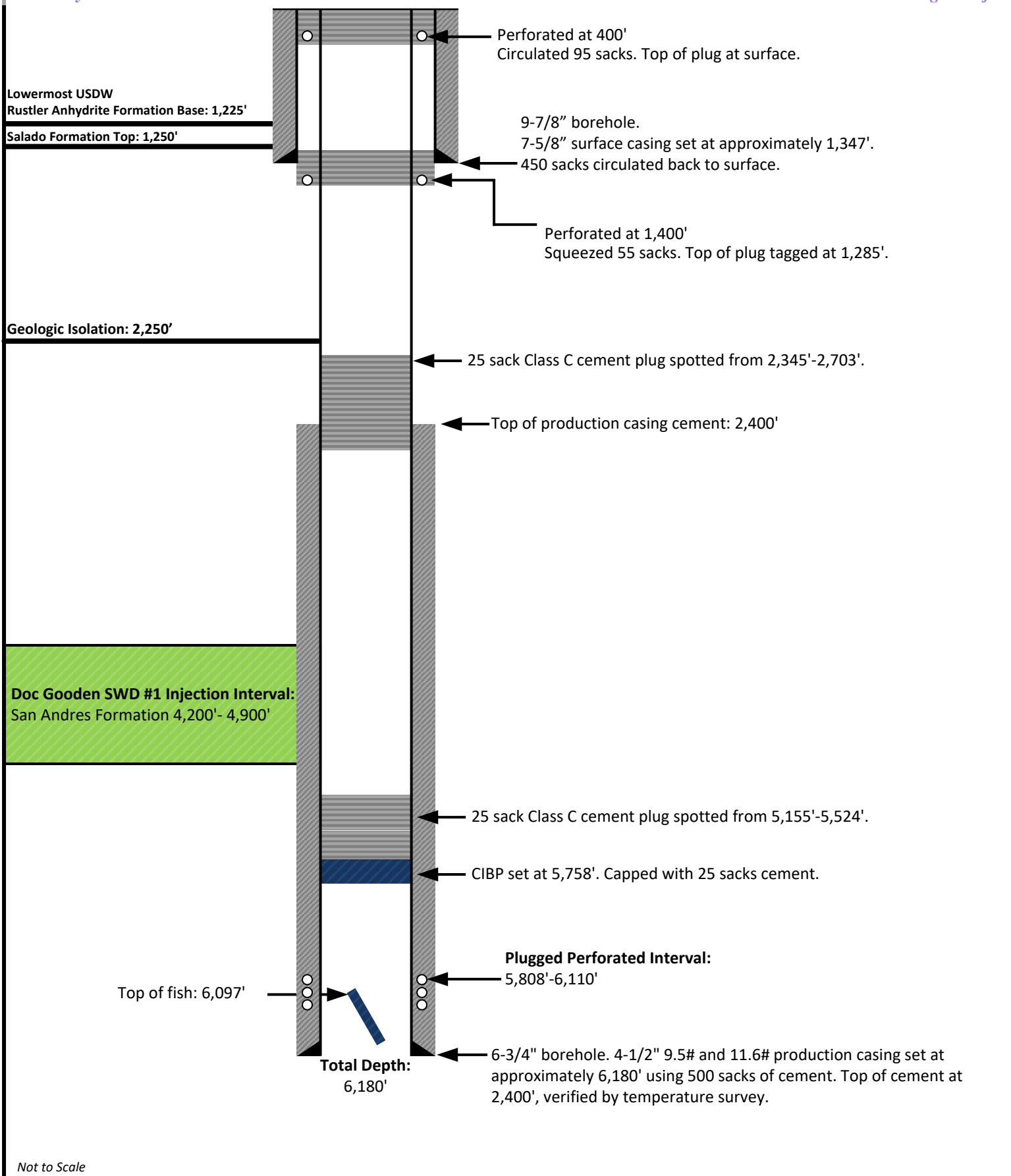
Prepared by:  
**ALLCONSULTING**  
Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 05/05/2023

J A Akens #007  
Wellbore Diagram  
API: 30-025-20110  
Spud Date: 12/12/1969  
Plugged and Abandoned: 04/29/2008  
Operated By: Chesapeake Operating Inc.



Not to Scale

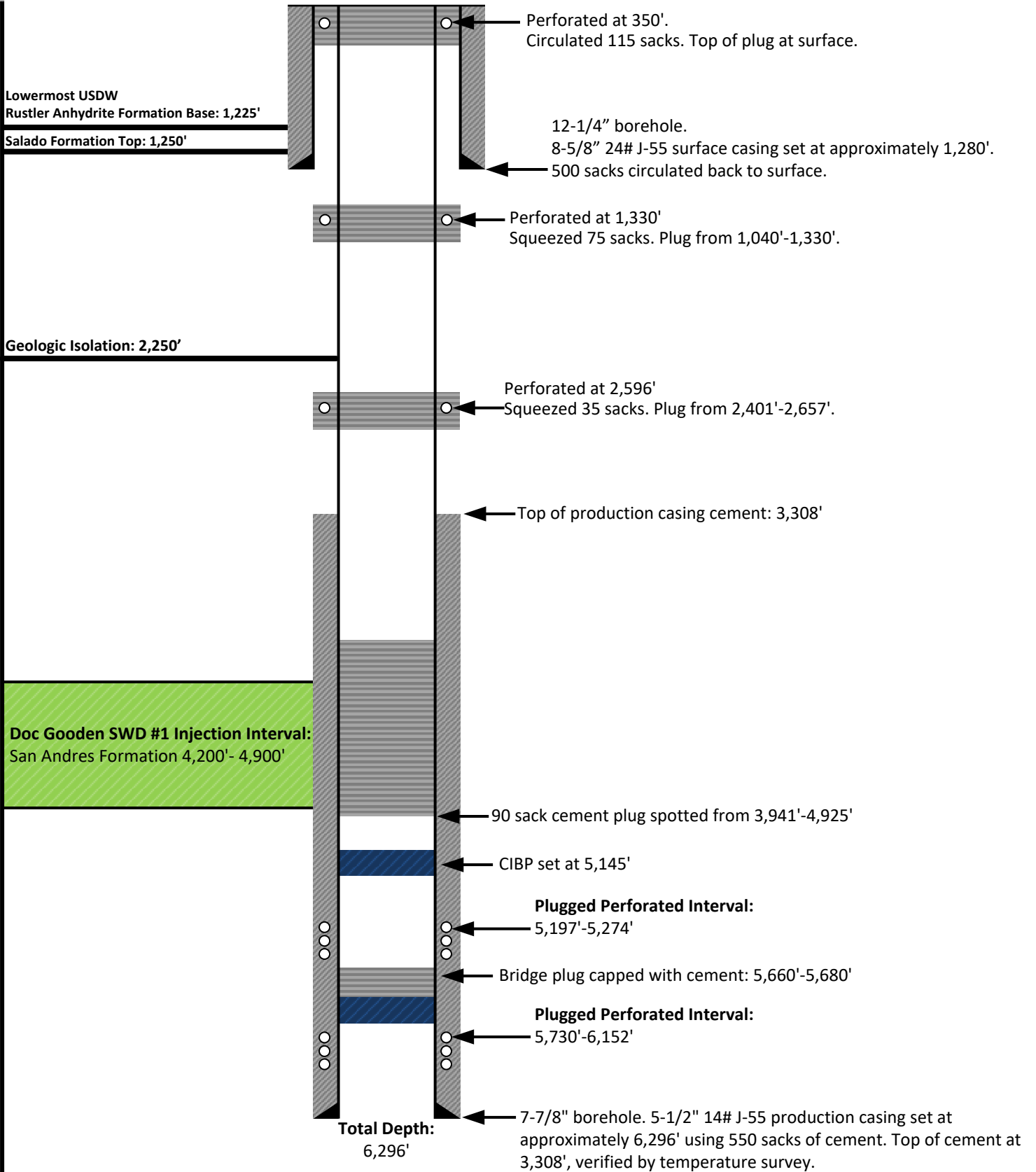
Prepared by:  
**ALLCONSULTING**  
Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 05/05/2023

BLINEBRY OIL COM NO 1 #001  
Wellbore Diagram  
API: 30-025-20262  
Spud Date: 07/26/1963  
Plugged and Abandoned: 07/17/2008  
Operated By: Exxon Mobil Corporation



Not to Scale

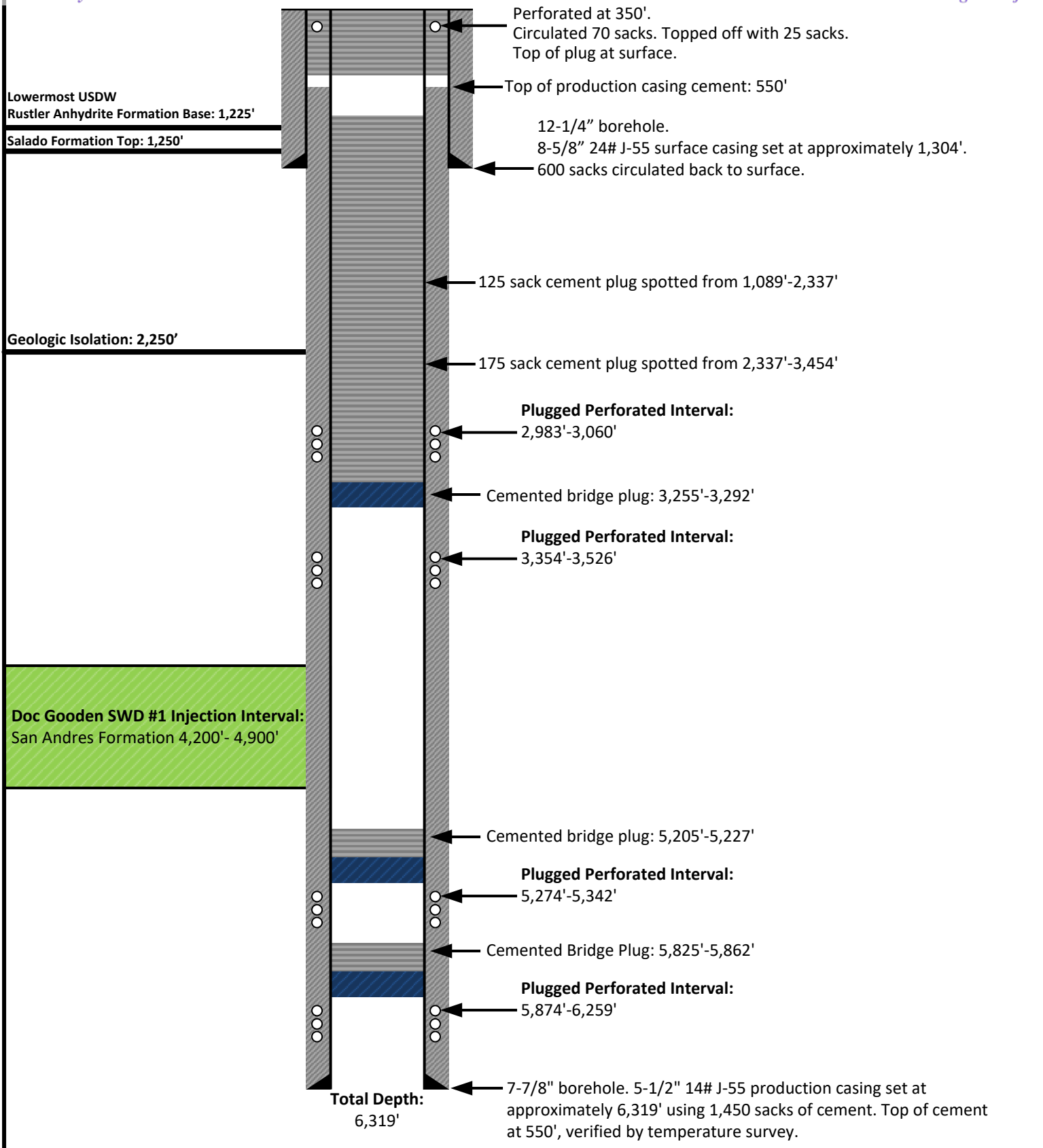
Prepared by:  
**ALLCONSULTING**  
Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

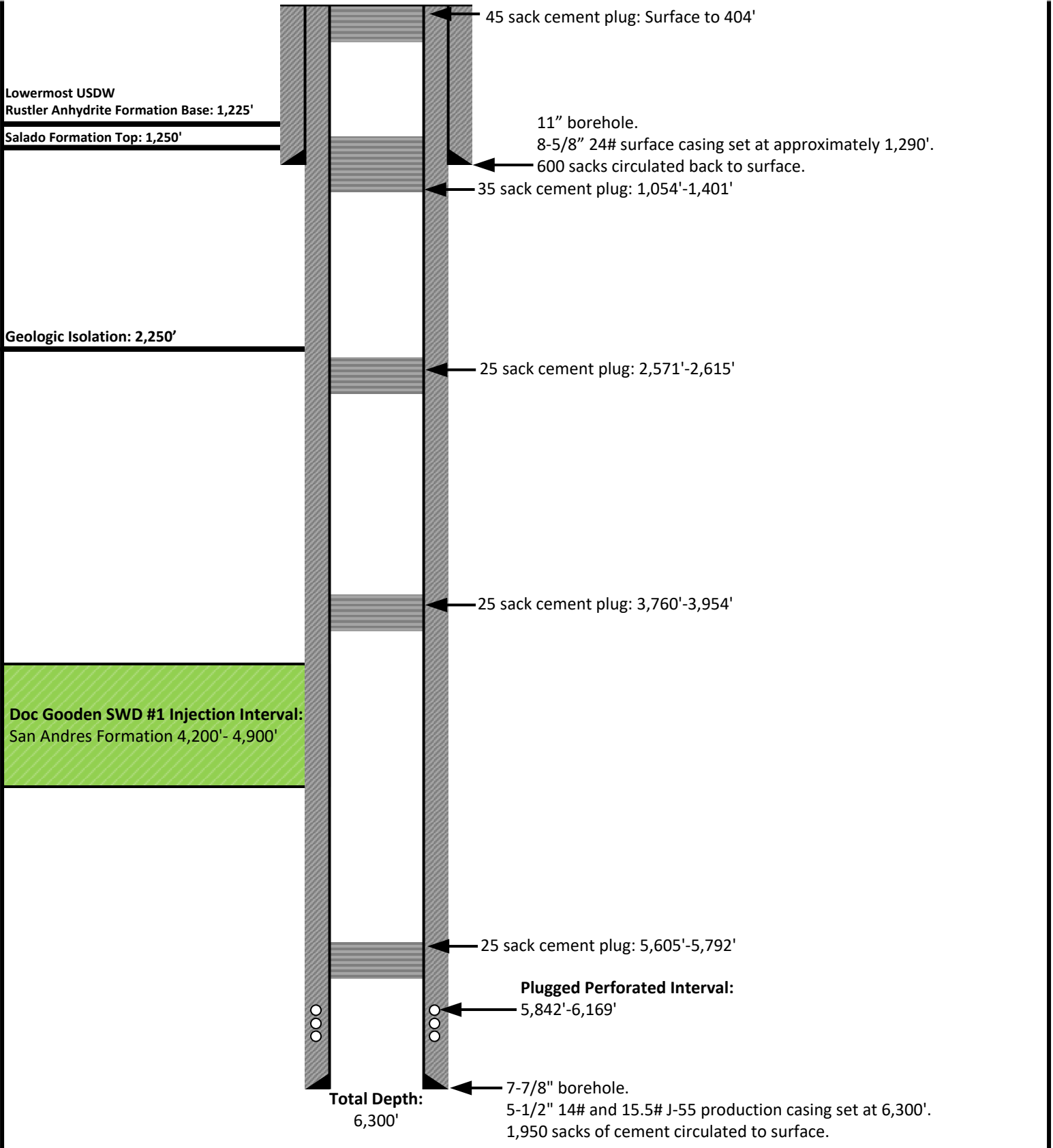
Date: 05/05/2023

USA J A AKENS #009  
Wellbore Diagram  
API: 30-025-20362  
Spud Date: 09/25/1963  
Plugged and Abandoned: 06/13/2014  
Operated By: Chevron USA Inc.





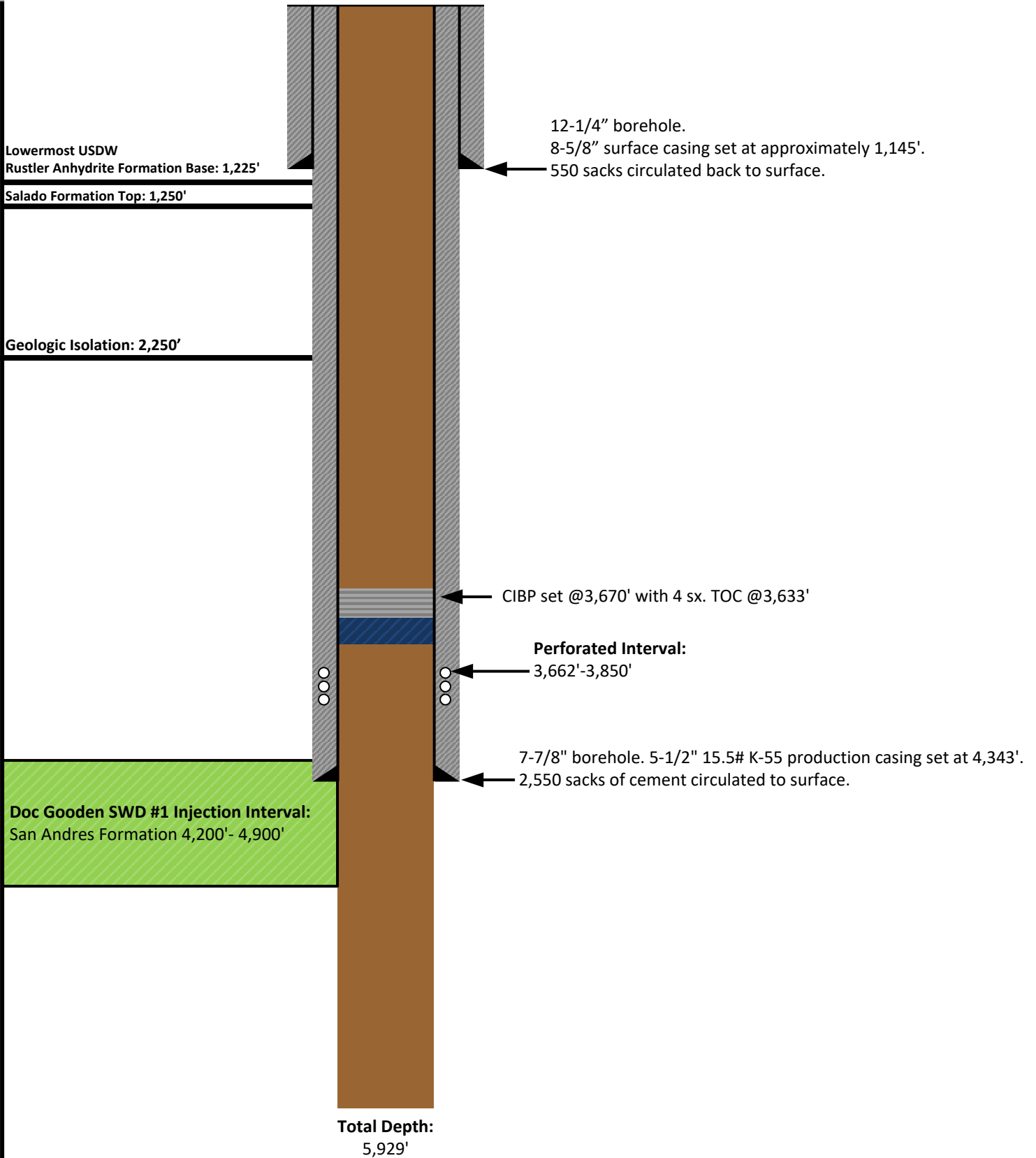
Not to Scale

<p>Prepared by:</p> <p>Prepared for:</p>	<p>Drawn by: Joshua Ticknor</p>	<p>J A AKENS #010 Wellbore Diagram API: 30-025-26069 Spud Date: 09/16/1978 Plugged and Abandoned: 03/26/2014 Operated By: Chevron USA Inc.</p>
	<p>Project Manager: Nathan Alleman</p>	
	<p>Date: 05/05/2023</p>	



Not to Scale

<p>Prepared by:</p>  <p>Prepared for:</p> 	<p>Drawn by: Joshua Ticknor</p>	<p>J A AKENS #011 Wellbore Diagram API: 30-025-26741 Spud Date: 05/29/1980 Plugged and Abandoned: 01/14/2010 Operated By: Chesapeake Operating, Inc.</p>
	<p>Project Manager: Nathan Alleman</p>	
	<p>Date: 05/05/2023</p>	



Not to Scale

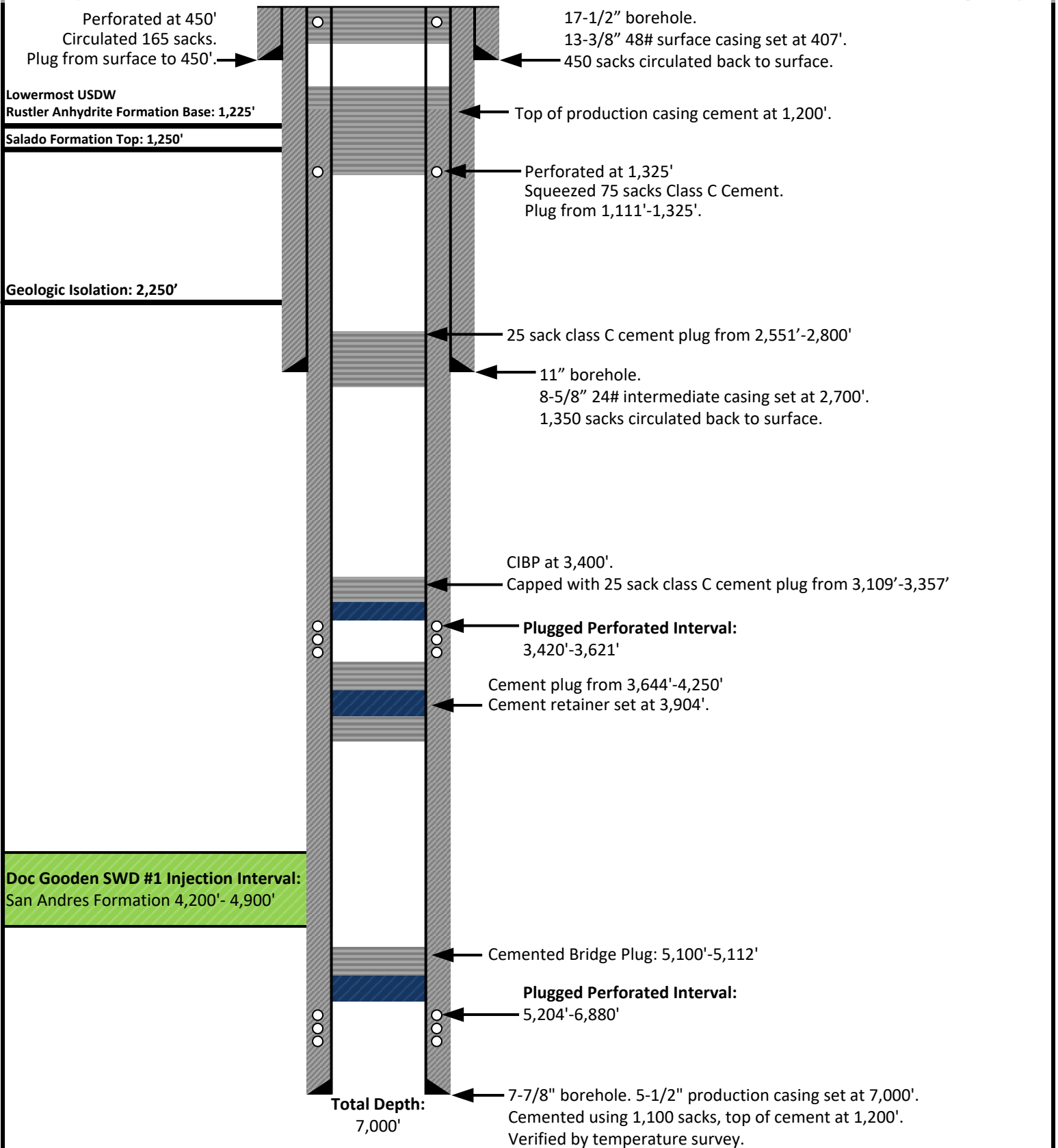
Prepared by:  
  
 Prepared for:  


Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 05/05/2023

J F JANDA NCT D #003  
 Wellbore Diagram  
 API: 30-025-28446  
 Spud Date: 11/15/1983  
 Temporarily Abandoned  
 Operated By: Empire New Mexico LLC



Not to Scale

Prepared by:  
**ALLCONSULTING**  
Prepared for:  
**GOODNIGHT**  
MIDSTREAM

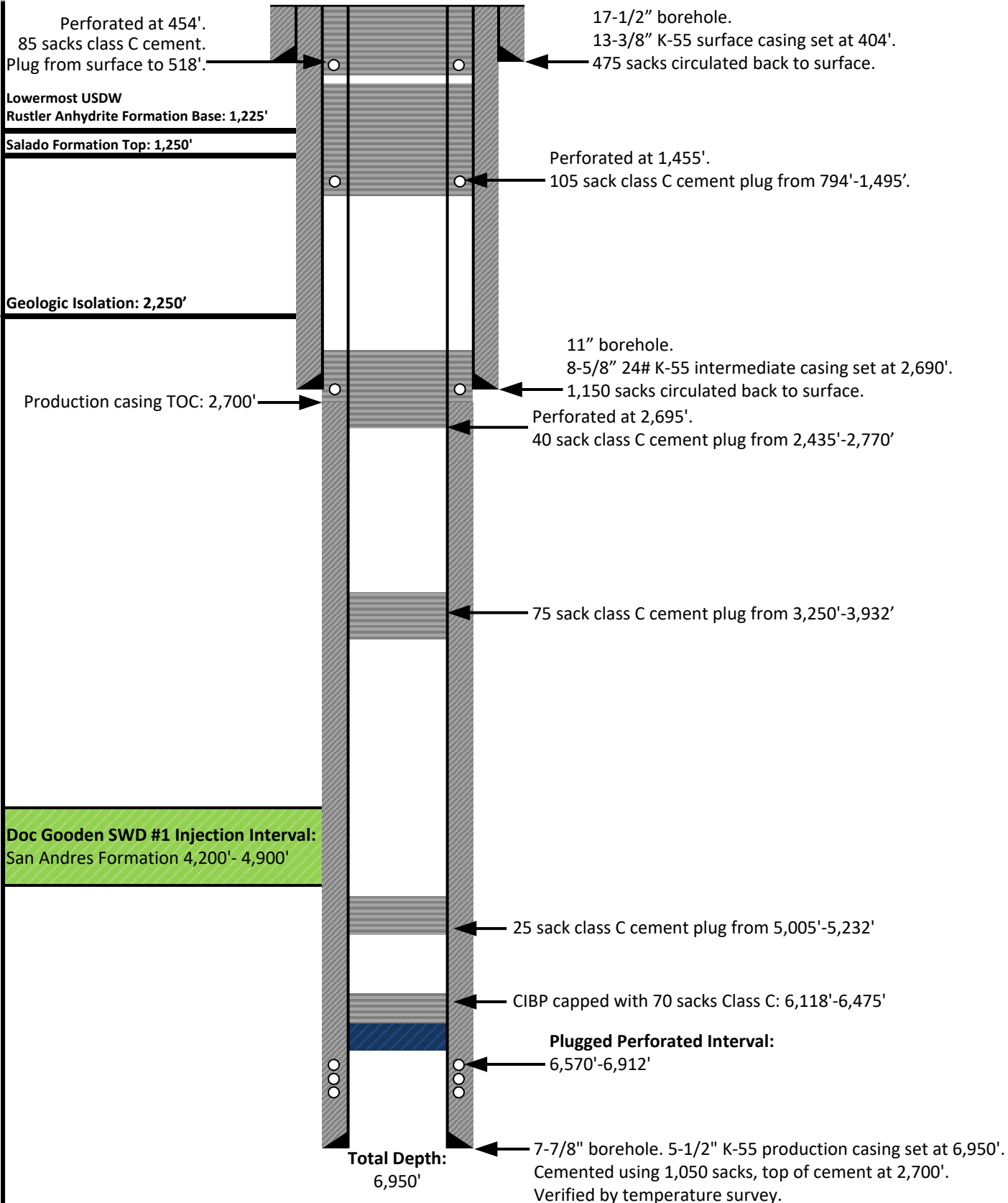
Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman



Date: 05/05/2023

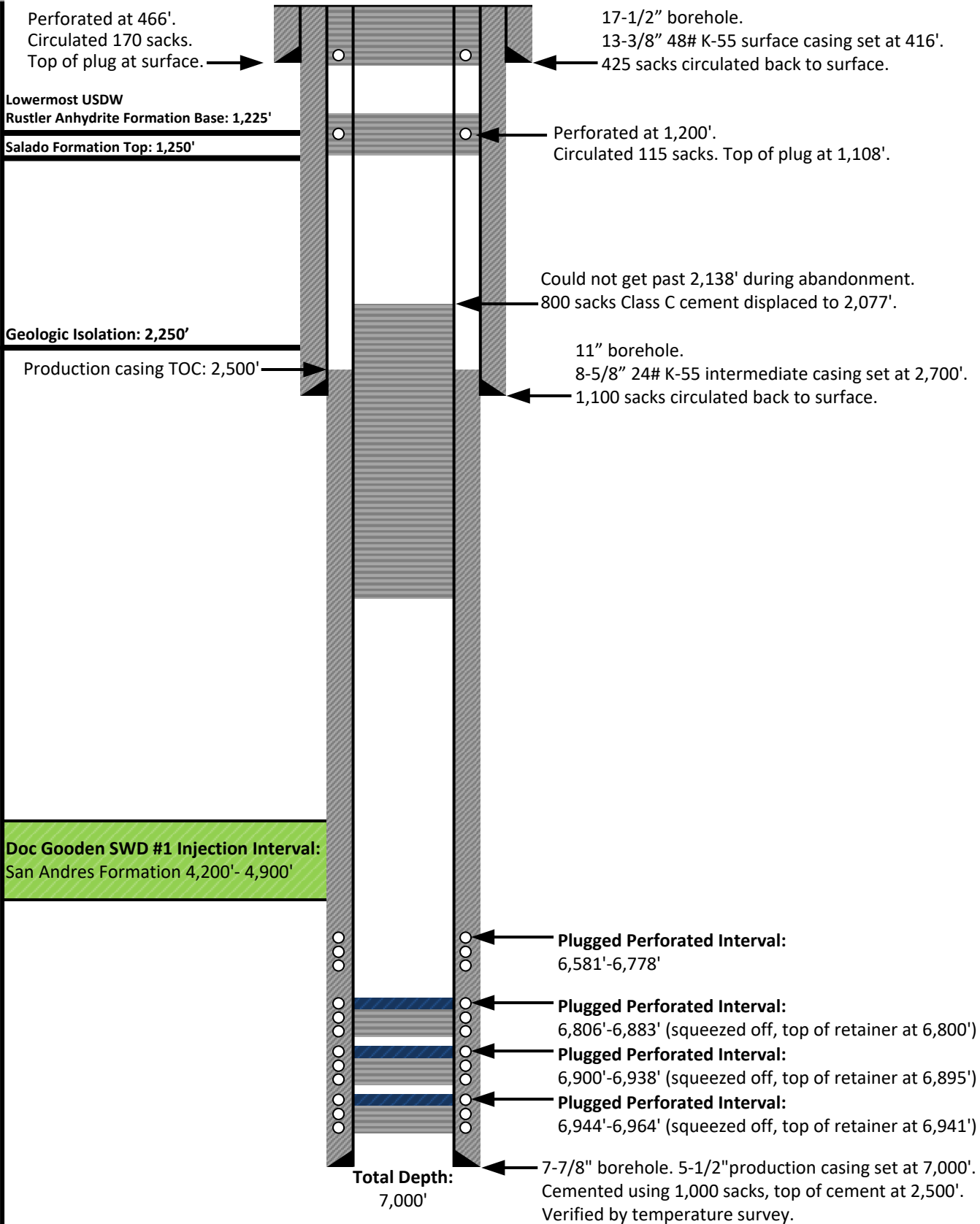
USA J A AKENS #012  
Wellbore Diagram  
API: 30-025-29514  
Spud Date: 12/3/1985  
Plugged and Abandoned: 01/12/2016  
Operated By: Chevron USA Inc.





Not to Scale

<p>Prepared by:</p>  <p>Prepared for:</p> 	<p>Drawn by: Joshua Ticknor</p>	<p>J A AKENS #013 Wellbore Diagram API: 30-025-29733 Spud Date: 08/29/1996 Plugged and Abandoned: 07/25/2018 Operated By: Chevron USA Inc.</p>
	<p>Project Manager: Nathan Alleman</p>	
	<p>Date: 05/05/2023</p>	



Not to Scale

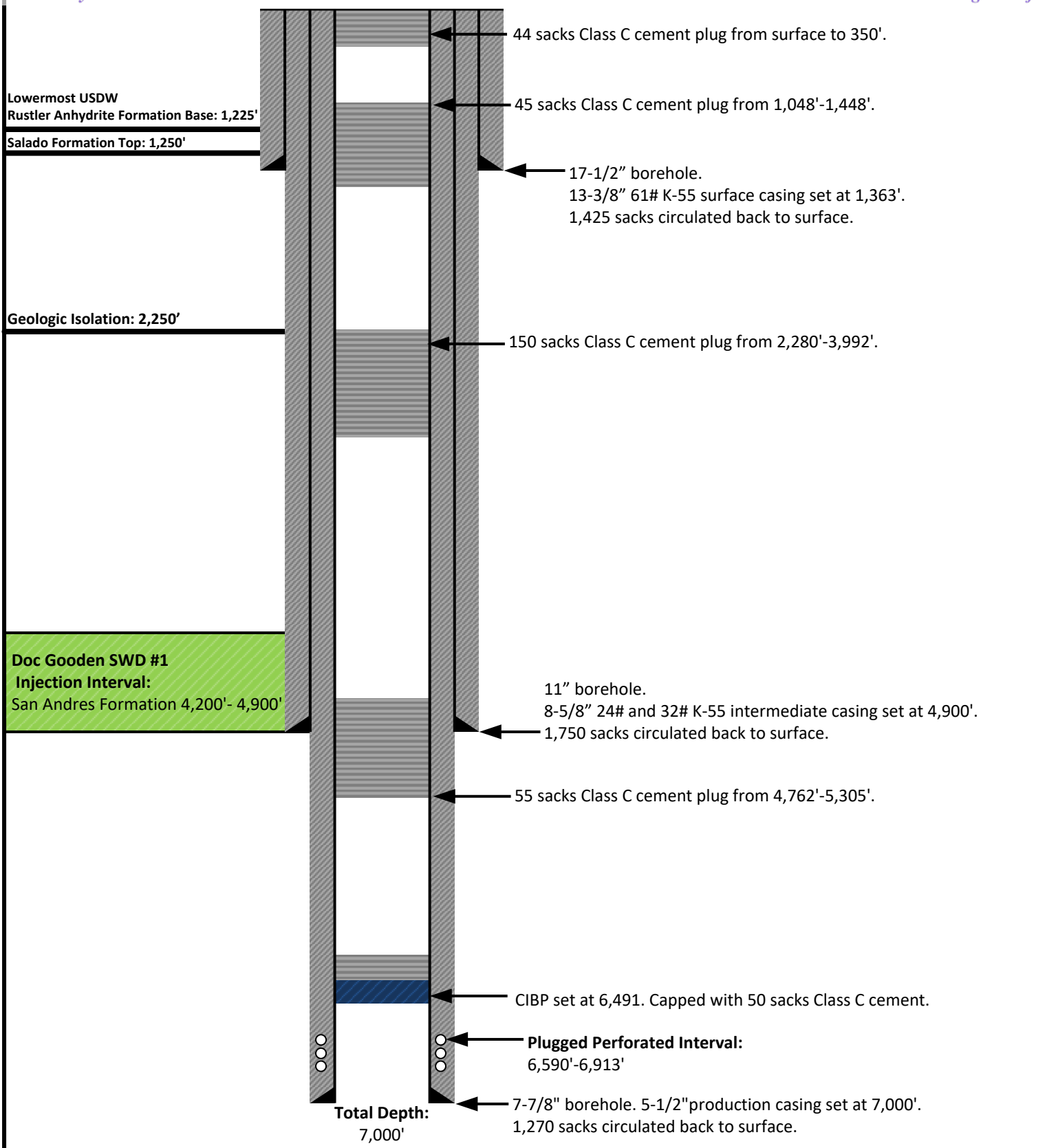
Prepared by:  
  
 Prepared for:  


Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 05/05/2023

J A AKENS #014  
 Wellbore Diagram  
 API: 30-025-29872  
 Spud Date: 03/24/1987  
 Plugged and Abandoned: 03/12/2009  
 Operated By: Chesapeake Operating, Inc.



Not to Scale

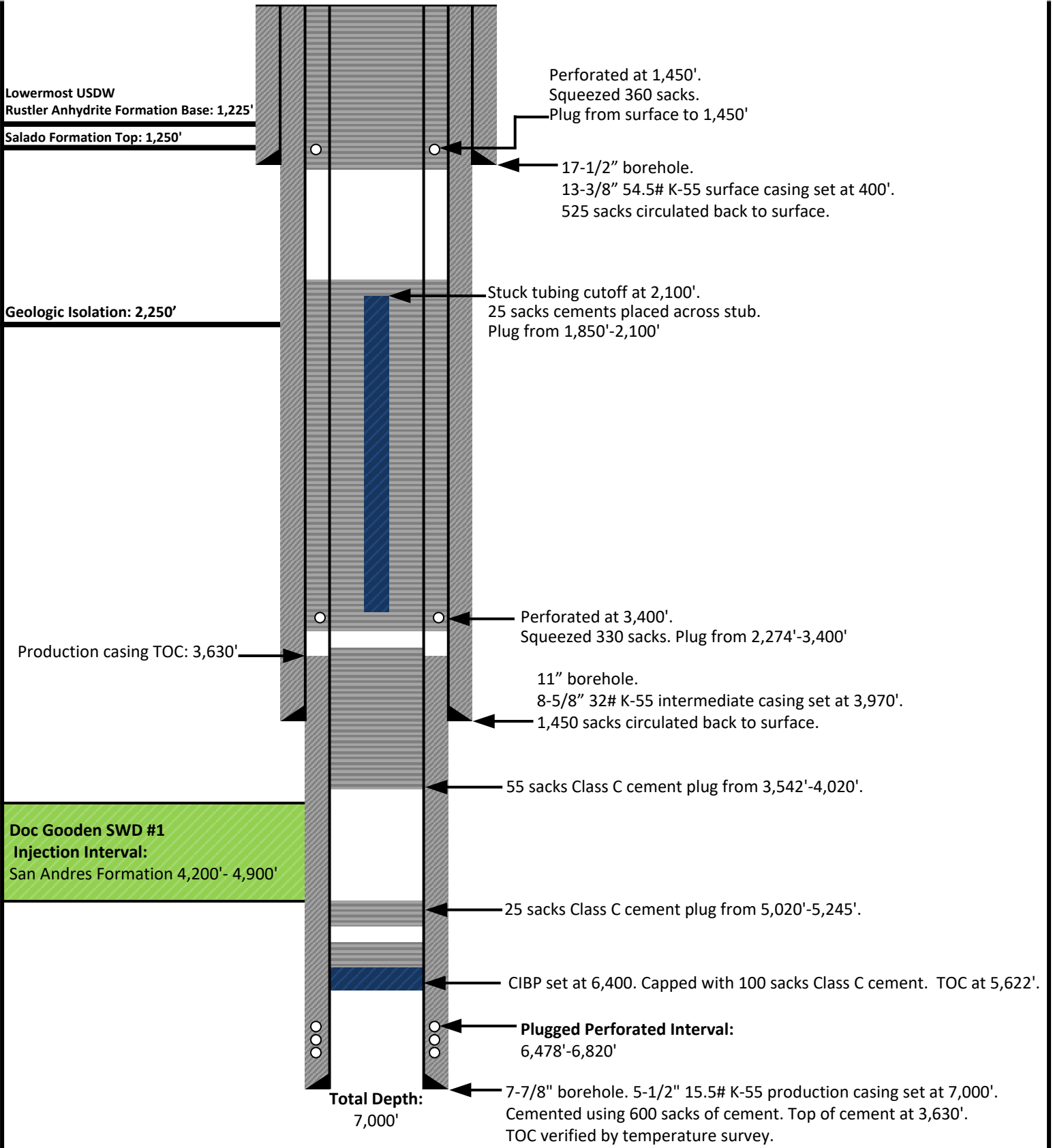
Prepared by:  
**ALLCONSULTING**  
Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 05/05/2023

J A AKENS #016  
Wellbore Diagram  
API: 30-025-30099  
Spud Date: 12/08/1987  
Plugged and Abandoned: 08/02/2018  
Operated By: Chevron USA Inc



Not to Scale

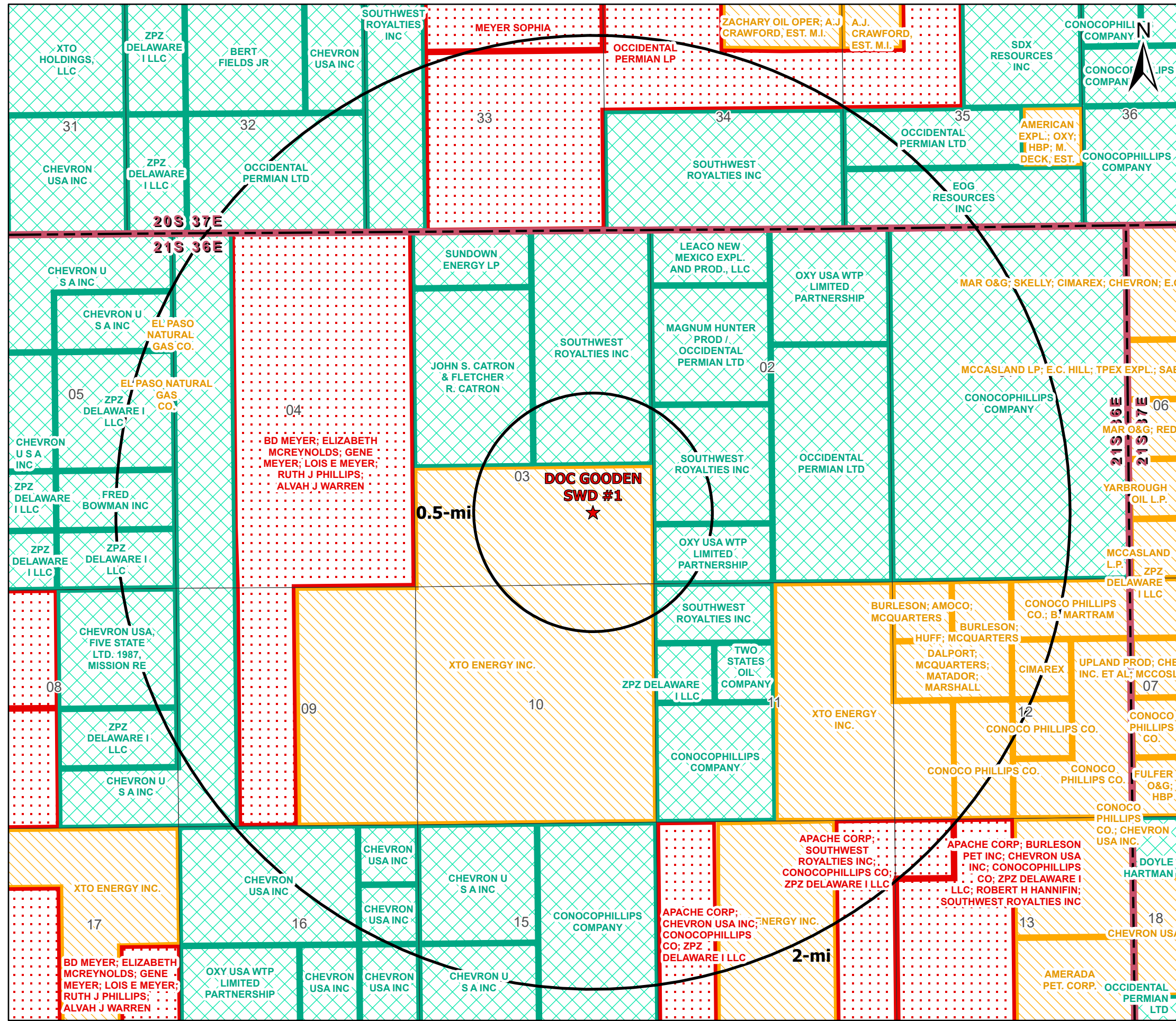
Prepared by:  
**ALLCONSULTING**  
Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 05/05/2023

J A AKENS #019  
Wellbore Diagram  
API: 30-025-30729  
Spud Date: 11/27/1989  
Plugged and Abandoned: 08/21/2018  
Operated By: Chevron USA Inc



### Legend

- ★ Proposed SWD
- NMSLO Mineral Leases
- BLM Mineral Leases
- Private Mineral Leases

## Mineral Lease Area of Review

### DOC GOODEN SWD #1

LEA COUNTY, NEW MEXICO

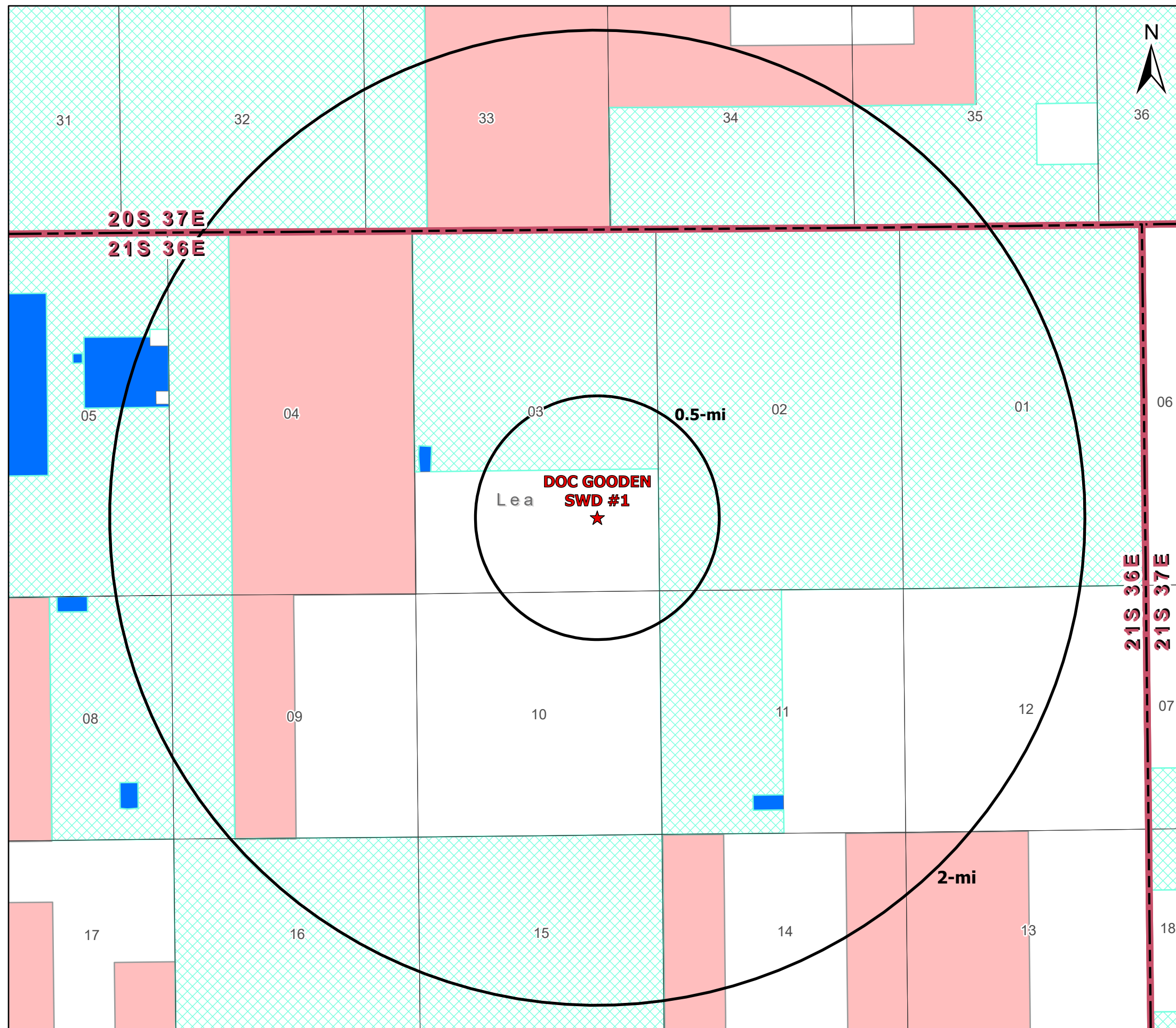
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
---------------------------	--------------	------------------------------

Prepared for:

Prepared by:







### Legend

- ★ Proposed SWD
- Private minerals
- Subsurface minerals (NMSLO)
- ▨ Surface and Subsurface minerals (NMSLO)
- All minerals are owned by U.S. (BLM)

## Mineral Ownership Area of Review

### DOC GOODEN SWD #1 LEA COUNTY, NEW MEXICO

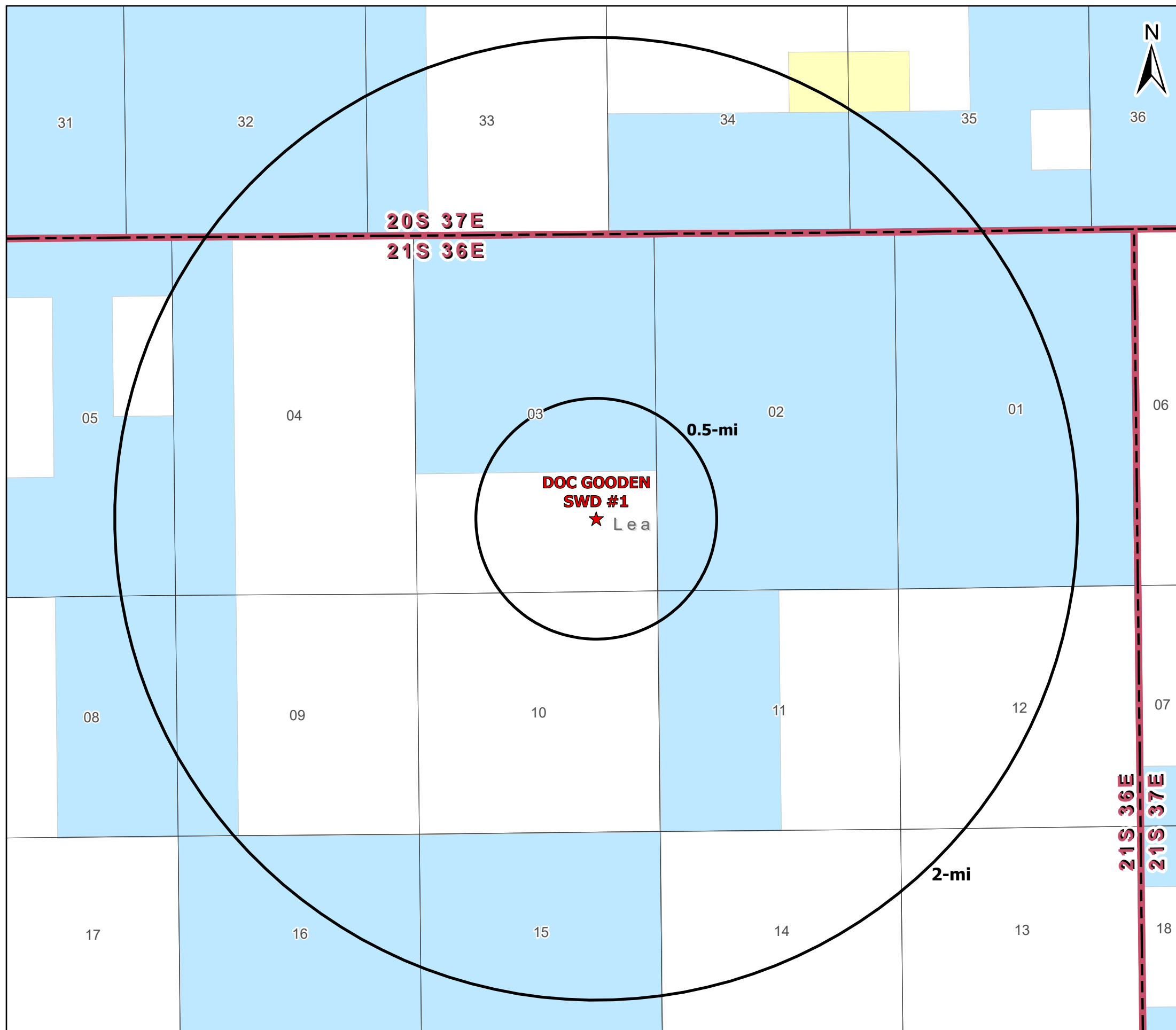
Proj Mgr:  
Nate Alleman

May 03, 2023

Mapped by:  
Ben Bockelmann



Source Info: BLM Mineral Ownership (<https://catalog.data.gov/dataset/blm-new-mexico-mineral-ownership>) & NMSLO Ownership (<http://www.nmstatelands.org/maps-gis/gis-data-download/>)



### Legend

★ Proposed SWD

### Surface Ownership

BLM

Private

State

## Surface Ownership Area of Review

### DOC GOODEN SWD #1 LEA COUNTY, NEW MEXICO

Proj Mgr:  
Nate Alleman

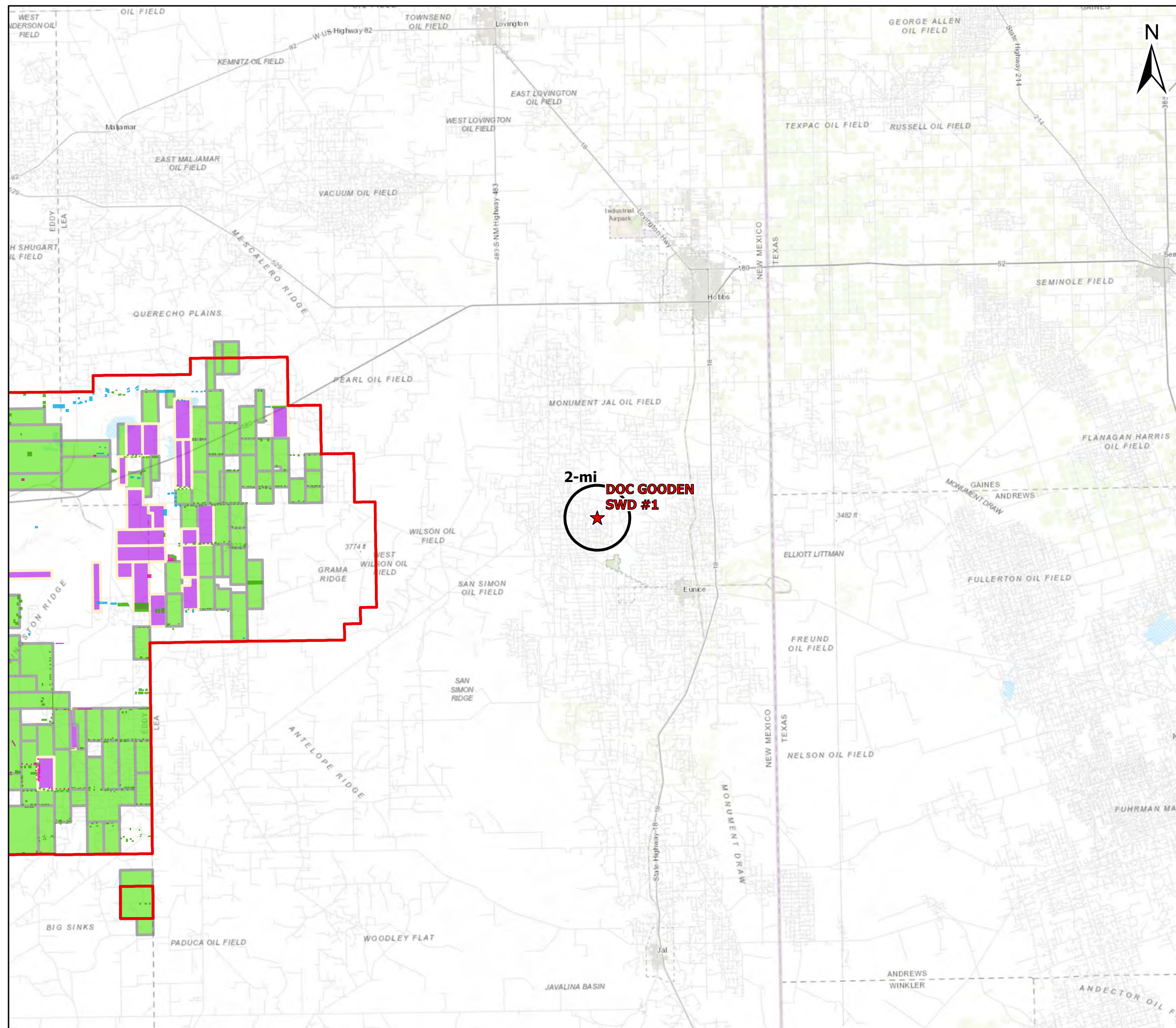
May 03, 2023

Mapped by:  
Ben Bockelmann

Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Prepared by:  
**ALL**CONSULTING





### Legend

- ★ Proposed SWD (1)
  - SOPA 1986 (2)
- ### Drill Islands
- Status, Depth Buffer
- Approved, Half Mile (283)
  - Approved, Quarter Mile (26)
  - Nominated, Half Mile (46)
  - Nominated, Quarter Mile (1)
- ### Development Areas
- Status
- Approved (86)
  - Pending (24)
  - Pending NMOCD Order (0)

<b>Potash Area of Review</b>		
<b>DOC GOODEN SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM	Prepared by: <b>ALLCONSULTING</b>	



**Attachment 3**

Source Water Analyses

Source Water Formation Analysis																	
Goodnight Midstream Permian, LLC - Bone Spring, Wolfcamp & Delaware Formations																	
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND	109,808	66,985	281	1,030
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND	139,905	85,081	293	740
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	184,420	115,274	268	765
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON	266,468	167,562	366	-
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON		224,384	366	210
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON		169,000	37	341
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND		68,000	427	97
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND		77,000	305	1,600
GAUCHO UNIT #014H	3002541571	32.3840523	-103.4984589	20	22S	34E	D	150N	660W	Lea	NM		BONE SPRING 2ND SAND		82,000	220	624
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	158,147	96,378	232	710
MOBIL LEA STATE #001	3002531696	32.5999107	-103.5331573	2	20S	34E	K	1800S	1980W	LEA	NM	LEA NORTHEAST	DELAWARE	152,064	102,148	404	691
MOBIL LEA STATE #003	3002532105	32.5976906	-103.5367584	2	20S	34E	M	990S	870W	LEA	NM	LEA NORTHEAST	DELAWARE	296,822	215,237	143	294
MOBIL LEA STATE #005	3002532466	32.6028633	-103.5367584	2	20S	34E	E	2440N	870W	LEA	NM	LEA NORTHEAST	DELAWARE	340,838	245,270	229	147
LEA UNIT #004H	3002502424	32.5895081	-103.524559	11	20S	34E	H	1980N	660E	LEA	NM	LEA	BONE SPRING	29,436	16,720	634	1,142
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	DELAWARE	214,787	132,700	208	1,816
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	BONE SPRING	15,429			
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	BONE SPRING	180,701	108,300	1,016	670
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	LEA	NM	LEA	BONE SPRING	202,606	118,100	5,196	992
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	LEA	NM	LEA	BONE SPRING	121,800			
LEA UNIT #008	3002502431	32.5927162	-103.511673	12	20S	34E	B	810N	1980E	LEA	NM	LEA	BONE SPRING	147,229	89,640	108	1,038
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND	261,089	160,264	122	425
MONK 21 STATE #004H	3002542193	32.47107672	-103.4727296	21	21S	34E	B	200N	1980E	Lea	NM		BONE SPRING 2ND SAND	184,233	112,775	488	425
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND		103,000	207	439
H L VINSON #001	3002503587	33.5251312	-103.237999	22	09S	36E	A	660N	660E	Lea	NM		WOLFCAMP		66,400	187	690
PHILLIPS STATE #001	3002503659	33.3458824	-103.2939529	22	11S	36E	N	660S	1980W	LEA	NM	CINDY	WOLFCAMP	78,885	47,400	354	875
STATE CA #001	3002503743	32.902153	-103.3229828	23	16S	36E	O	660S	1980E	LEA	NM	LOVINGTON	WOLFCAMP	167,968	102,800	61	623
SINCLAIR STATE #002	3002503123	32.7386246	-103.4561005	21	18S	35E	A	660N	660E	LEA	NM	VACUUM SOUTH	WOLFCAMP	60,950	33,568	1,087	3,049

**Attachment 4**

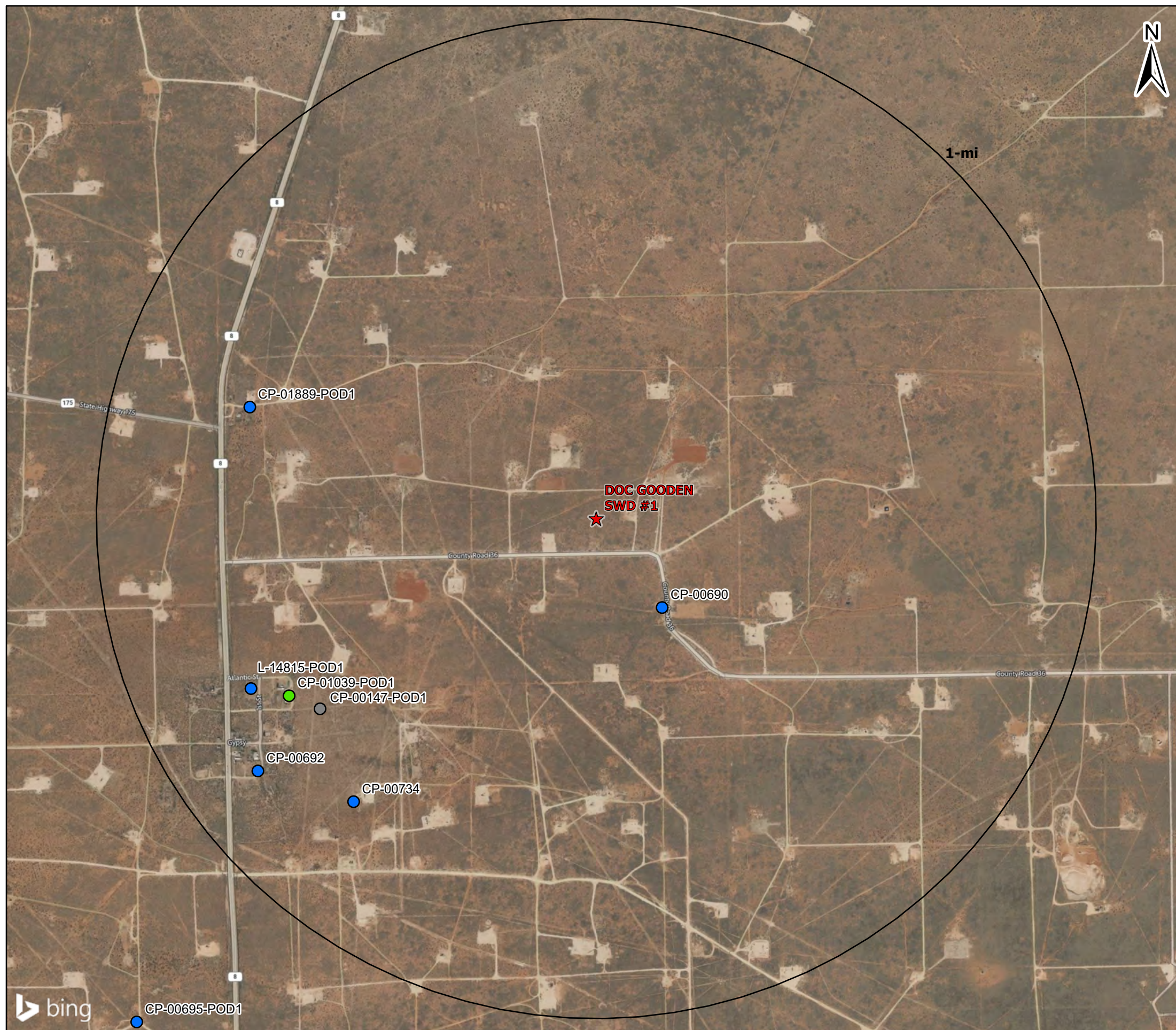
Injection Formation Water Analyses

Goodnight Midstream Permian, LLC - San Andres Formation																	
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
SIMMONS #001	3002510070	32.4232674	-103.1821976	5	22S	37E	G	1760N	1760E	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	78,653	46,510	580	2,184
C P FALBY B FEDERAL #004	3002510106	32.4045296	-103.1914597	8	22S	37E	L	1980S	660W	LEA	NM	CARY	SAN ANDRES	80,540	43,500	755	5,950
C P FALBY A FEDERAL #003	3002510118	32.4081421	-103.1871872	8	22S	37E	F	1980N	1980W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	59,766			
C P FALBY A FEDERAL #004	3002510120	32.4081345	-103.1914673	8	22S	37E	E	1980N	660W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	10,925	5,312	1,620	201
PENROSE #002	3002510146	32.4078712	-103.1739807	9	22S	37E	E	2086N	776W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	64,895	38,010	488	2,100
LOU WORTHAM #020	3002510216	32.411808	-103.1401749	11	22S	37E	D	660N	660W	LEA	NM	EUNICE SOUTH	SAN ANDRES	10,947	6,527	20	236
LOU WORTHAM #005	3002523606	32.4109001	-103.1369629	11	22S	37E	C	990N	1650W	LEA	NM	EUNICE SOUTH	SAN ANDRES	18,587	9,460	13	2,518
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	9,192	4,443	12	1,491
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,868	9,040	24	112
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	13,828	7,298	18	1,389
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,957	8,867	18	406
HUGH COI #013	3002523275	32.3982162	-103.1396637	14	22S	37E	D	330N	820W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,215	6,495	2,529	191
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,824	7,018	2,344	207
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT PADDOCK	SAN ANDRES	65,365	36,905	560	1,460
THEODORE ANDERSON #002	3002506139	32.5785942	-103.2758102	17	20S	37E	C	660N	1980W	Lea	NM		SAN ANDRES		67,245	564	489
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT	SAN ANDRES	65,361	36,900	560	1,460

**Attachment 5**

Water Well Map and Well Data





### Legend

★ Proposed SWD

### OSE PODs

#### Status

- Active (6)
- Pending (1)
- Change Location of Well (0)
- Capped (0)
- Plugged (0)
- Incomplete (0)
- Unknown (1)

## Water Wells Area of Review

### DOC GOODEN SWD #1

LEA COUNTY, NEW MEXICO

Proj Mgr:  
Nate Alleman

May 03, 2023

Mapped by:  
Ben Bockelmann

Prepared for:  


Prepared by:  




Water Well Sampling Rationale					
Goodnight Midstream Permian- Doc Gooden SWD #1					
Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
CP-00147-POD1	HUMBLE OIL & REFINING COMPANY	P.O. BOX 2100, Hobbs, NM, 88240	Commercial	No	NMOSE records have no listed meter readings for this well. CP-00147 is not an active fresh water well.
CP-00690	SUN EXPL. & PROD.	P.O. BOX 692, Tatum, NM, 88267	Prospecting or Development of Natural Resources	No	NMOSE notes indicate this well was a dry hole.
CP-00692	W.L. VAN NOY	P.O. BOX 7, Oil Center, NM, 88266	Domestic	No	Two water wells have already been sampled.
CP-00695-POD1	CHEVRON USA INC	P.O. BOX 670, Hobbs, NM, 88240	Secondary Recovery of Oil	No	Not a freshwater well.
CP-00734	W.L. VAN NOY	P.O. BOX 7, Oil Center, NM, 88266	Domestic	No	NMOSE records state this is not an active water well.
CP-01039-POD1	Jerauld Anderson	575-631-1922	Domestic	Yes	Sampled on 9/9/2021.
CP-01889-POD1	Mathew LUNA	P.O. Box 3032 Eunice, NM, 88231 Cell: 575-942-8473	Domestic	No	Communications with the water well owner, confirmed that this is not an active fresh water well
L-14815-POD1	Micheal & Carla Mcneil	P.O. Box 1032 Eunice, NM 88231 Cell phone: 14322696670.	Domestic	Yes	Sampled on 5/5/2023.
<b>Note:</b>					



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 17, 2021

OLIVER SEEKINS  
ALL CONSULTING, LLC  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119

RE: JERAULD ANDERSON

Enclosed are the results of analyses for samples received by the laboratory on 09/09/21 11:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2      Total Haloacetic Acids (HAA-5)  
Method EPA 524.2      Total Trihalomethanes (TTHM)  
Method EPA 524.4      Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B      Total Coliform and E. coli (Colilert MMO-MUG)  
Method EPA 524.2      Regulated VOCs and Total Trihalomethanes (TTHM)  
Method EPA 552.2      Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene  
Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
---	---	------------------------------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CP - 01039 POD 1	H212493-01	Water	09-Sep-21 10:30	09-Sep-21 11:12

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
---	---	------------------------------

**CP - 01039 POD 1  
H212493-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Alkalinity, Bicarbonate	342		5.00	mg/L	1	1072906	GM	09-Sep-21	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	1072906	GM	09-Sep-21	310.1	
Chloride*	1000		4.00	mg/L	1	1090801	GM	09-Sep-21	4500-Cl-B	
Conductivity*	5030		1.00	umhos/cm @ 25°C	1	1090914	GM	09-Sep-21	120.1	
pH*	7.21		0.100	pH Units	1	1090914	GM	09-Sep-21	150.1	
Temperature °C	19.9			pH Units	1	1090914	GM	09-Sep-21	150.1	
Resistivity	1.99			Ohms/m	1	1090914	GM	09-Sep-21	120.1	
Specific Gravity @ 60° F	1.004		0.000	[blank]	1	1090915	GM	09-Sep-21	SM 2710F	
Sulfate*	1220		250	mg/L	25	1090803	GM	10-Sep-21	375.4	
TDS*	3420		5.00	mg/L	1	1090811	GM	13-Sep-21	160.1	
Alkalinity, Total*	280		4.00	mg/L	1	1072906	GM	09-Sep-21	310.1	
TSS*	3.00		2.00	mg/L	1	1091005	GM	14-Sep-21	160.2	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Barium*	<0.250		0.250	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Calcium*	199		0.500	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Hardness as CaCO3	971		3.31	mg/L	5	[CALC]	AES	16-Sep-21	2340 B	
Iron*	<0.250		0.250	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Magnesium*	115		0.500	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Potassium*	29.1		5.00	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Sodium*	787		5.00	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Strontium*	5.72		0.500	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1072906 - General Prep - Wet Chem**

<b>Blank (1072906-BLK1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

<b>LCS (1072906-BS1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			

<b>LCS Dup (1072906-BSD1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120	0.00	20	
Alkalinity, Total	250	10.0	mg/L	250		100	80-120	0.00	20	

**Batch 1090801 - General Prep - Wet Chem**

<b>Blank (1090801-BLK1)</b>		Prepared & Analyzed: 08-Sep-21								
Chloride	ND	4.00	mg/L							

<b>LCS (1090801-BS1)</b>		Prepared & Analyzed: 08-Sep-21								
Chloride	104	4.00	mg/L	100		104	80-120			

<b>LCS Dup (1090801-BSD1)</b>		Prepared & Analyzed: 08-Sep-21								
Chloride	100	4.00	mg/L	100		100	80-120	3.92	20	

**Batch 1090803 - General Prep - Wet Chem**

<b>Blank (1090803-BLK1)</b>		Prepared: 08-Sep-21 Analyzed: 10-Sep-21								
Sulfate	ND	10.0	mg/L							

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1090803 - General Prep - Wet Chem**

**LCS (1090803-BS1)** Prepared: 08-Sep-21 Analyzed: 10-Sep-21

Sulfate	22.0	10.0	mg/L	20.0		110	80-120			
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**LCS Dup (1090803-BSD1)** Prepared: 08-Sep-21 Analyzed: 10-Sep-21

Sulfate	19.2	10.0	mg/L	20.0		96.0	80-120	13.4	20	
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**Batch 1090811 - Filtration**

**Blank (1090811-BLK1)** Prepared: 08-Sep-21 Analyzed: 10-Sep-21

TDS	ND	5.00	mg/L							
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**LCS (1090811-BS1)** Prepared: 08-Sep-21 Analyzed: 10-Sep-21

TDS	275		mg/L	300		91.7	80-120			
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**Duplicate (1090811-DUP1)** Source: H212440-02 Prepared: 08-Sep-21 Analyzed: 10-Sep-21

TDS	661	5.00	mg/L		699			5.59	20	
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**Batch 1090914 - General Prep - Wet Chem**

**LCS (1090914-BS1)** Prepared & Analyzed: 09-Sep-21

pH	7.04		pH Units	7.00		101	90-110			
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Conductivity	494		uS/cm	500		98.8	80-120			
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**Duplicate (1090914-DUP1)** Source: H212493-01 Prepared & Analyzed: 09-Sep-21

pH	7.23	0.100	pH Units		7.21			0.277	20	
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Conductivity	5060	1.00	umhos/cm @ 25°C		5030			0.595	20	
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Resistivity	1.98		Ohms/m		1.99			0.595	20	
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Temperature °C	20.0		pH Units		19.9			0.501	200	
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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1090915 - General Prep - Wet Chem**

<b>Duplicate (1090915-DUP1)</b>	<b>Source: H212493-01</b>		<b>Prepared &amp; Analyzed: 09-Sep-21</b>							
Specific Gravity @ 60° F	1.012	0.000	[blank]		1.004			0.806	20	

**Batch 1091005 - Filtration**

<b>Blank (1091005-BLK1)</b>	<b>Prepared: 10-Sep-21 Analyzed: 14-Sep-21</b>									
TSS	ND	2.00	mg/L							

<b>Duplicate (1091005-DUP1)</b>	<b>Source: H212493-01</b>		<b>Prepared: 10-Sep-21 Analyzed: 14-Sep-21</b>							
TSS	4.00	2.00	mg/L		3.00			28.6	52.7	

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
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**Total Recoverable Metals by ICP (E200.7) - Quality Control**

**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B212168 - Total Rec. 200.7/200.8/200.2**

**Blank (B212168-BLK1)**

Prepared: 15-Sep-21 Analyzed: 16-Sep-21

Magnesium	ND	0.100	mg/L							
Strontium	ND	0.100	mg/L							
Barium	ND	0.050	mg/L							
Sodium	ND	1.00	mg/L							
Potassium	ND	1.00	mg/L							
Calcium	ND	0.100	mg/L							
Iron	ND	0.050	mg/L							

**LCS (B212168-BS1)**

Prepared: 15-Sep-21 Analyzed: 16-Sep-21

Magnesium	9.98	0.100	mg/L	10.0		99.8	85-115			
Iron	1.95	0.050	mg/L	2.00		97.6	85-115			
Barium	0.983	0.050	mg/L	1.00		98.3	85-115			
Potassium	3.93	1.00	mg/L	4.00		98.3	85-115			
Sodium	1.53	1.00	mg/L	1.62		94.6	85-115			
Calcium	1.95	0.100	mg/L	2.00		97.3	85-115			
Strontium	1.90	0.100	mg/L	2.00		95.1	85-115			

**LCS Dup (B212168-BSD1)**

Prepared: 15-Sep-21 Analyzed: 16-Sep-21

Iron	1.95	0.050	mg/L	2.00		97.7	85-115	0.137	20	
Calcium	1.96	0.100	mg/L	2.00		97.8	85-115	0.568	20	
Magnesium	9.96	0.100	mg/L	10.0		99.6	85-115	0.237	20	
Potassium	3.98	1.00	mg/L	4.00		99.5	85-115	1.19	20	
Sodium	1.55	1.00	mg/L	1.62		95.5	85-115	0.984	20	
Strontium	1.93	0.100	mg/L	2.00		96.3	85-115	1.22	20	
Barium	0.944	0.050	mg/L	1.00		94.4	85-115	4.10	20	

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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager





101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Lab. Services  
 Project Manager: Dustin Armstrong  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_  
 Project Name: Terraud Anderson  
 Project Location: 32.50083, -103.259567  
 Sampler Name: \_\_\_\_\_  
 P.O. #: \_\_\_\_\_ Company: all cards  
 Attn: \_\_\_\_\_ Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

FOR LAB USE ONLY	MATRIX	PRESERV.	SAMPLING	ANALYSIS REQUEST
Lab I.D. <u>H012493</u>	(G)RAB OR (C)OMP. <u>GA</u>	ACID/BASE: _____ ICE / COOL _____ OTHER: _____	DATE <u>9-9-21</u> TIME <u>1030</u>	<input checked="" type="checkbox"/> Cation/Anions <input checked="" type="checkbox"/> Spec. Gravity <input checked="" type="checkbox"/> TSS <input checked="" type="checkbox"/> Resistivity <input checked="" type="checkbox"/> Ba, Fe, Sr <input checked="" type="checkbox"/> Total Hardness
Sample I.D. <u>CP-01039 Pod 1</u>	# CONTAINERS <u>1</u>			
	GROUNDWATER <input checked="" type="checkbox"/>			
	WASTEWATER <input type="checkbox"/>			
	SOIL <input type="checkbox"/>			
	OIL <input type="checkbox"/>			
	SLUDGE <input type="checkbox"/>			
	OTHER: _____			

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Relinquished By: Cedar D. St Date: 9-9-21 Time: 1112  
 Received By: Jawana White  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Delivered By: (Circle One) Observed Temp. °C 5.8 Sample Condition  Intact  Cool  Yes  No  
 Sampler - UPS - Bus - Other: \_\_\_\_\_ Corrected Temp. °C \_\_\_\_\_  
 Checked By: (Initials) JS  
 Turnaround Time: \_\_\_\_\_ Standard  Rush   
 Bacteria (only)  Cool Intact  Yes  No  Observed Temp. °C \_\_\_\_\_  
 Thermometer ID #13 \_\_\_\_\_ Correction Factor None  No  Corrected Temp. °C \_\_\_\_\_

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 12, 2023

OLIVER SEEKINS  
ALL CONSULTING, LLC  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119

RE: DOC GOODEN WATER SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 05/05/23 12:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2      Total Haloacetic Acids (HAA-5)  
Method EPA 524.2      Total Trihalomethanes (TTHM)  
Method EPA 524.4      Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B      Total Coliform and E. coli (Colilert MMO-MUG)  
Method EPA 524.2      Regulated VOCs and Total Trihalomethanes (TTHM)  
Method EPA 552.2      Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene  
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: DOC GOODEN WATER SAMPLING Project Number: 1732.SWD.49 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 12-May-23 09:03
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
L - 14815-POD1	H232243-01	Water	05-May-23 11:50	05-May-23 12:20

Cardinal Laboratories

\*=Accredited Analyte

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: DOC GOODEN WATER SAMPLING Project Number: 1732.SWD.49 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 12-May-23 09:03
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**L - 14815-POD1  
H232243-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Alkalinity, Bicarbonate	259		5.00	mg/L	1	3050428	AC	08-May-23	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	3050428	AC	08-May-23	310.1	
Chloride*	680		4.00	mg/L	1	3050143	AC	08-May-23	4500-Cl-B	
Conductivity*	4060		1.00	umhos/cm @ 25°C	1	3050807	AC	08-May-23	120.1	
pH*	7.47		0.100	pH Units	1	3050807	AC	08-May-23	150.1	
Temperature °C	16.7			pH Units	1	3050807	AC	08-May-23	150.1	
Resistivity	0.246			Ohms/m	1	3050807	AC	08-May-23	120.1	
Specific Gravity @ 60° F	1.000		0.000	[blank]	1	3051131	GM	11-May-23	SM 2710F	
Sulfate*	1070		250	mg/L	25	3050510	AC	05-May-23	375.4	
TDS*	2640		5.00	mg/L	1	3050222	AC	10-May-23	160.1	
Alkalinity, Total*	212		4.00	mg/L	1	3050428	AC	08-May-23	310.1	
TSS*	<2.00		2.00	mg/L	1	3050808	AC	09-May-23	160.2	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Barium*	<0.250		0.250	mg/L	5	B231206	AES	10-May-23	EPA200.7	
Calcium*	103		1.00	mg/L	5	B231206	AES	10-May-23	EPA200.7	
Hardness as CaCO3	580		4.56	mg/L	5	[CALC]	AES	10-May-23	2340 B	
Iron*	<0.250		0.250	mg/L	5	B231206	AES	10-May-23	EPA200.7	
Magnesium*	78.4		0.500	mg/L	5	B231206	AES	10-May-23	EPA200.7	
Potassium*	22.6		5.00	mg/L	5	B231206	AES	10-May-23	EPA200.7	
Sodium*	582		5.00	mg/L	5	B231206	AES	10-May-23	EPA200.7	
Strontium*	4.06		0.500	mg/L	5	B231206	AES	10-May-23	EPA200.7	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: DOC GOODEN WATER SAMPLING Project Number: 1732.SWD.49 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 12-May-23 09:03
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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**Batch 3050143 - General Prep - Wet Chem**

<b>Blank (3050143-BLK1)</b>		Prepared: 01-May-23 Analyzed: 02-May-23								
Chloride	ND	4.00	mg/L							
<b>LCS (3050143-BS1)</b>		Prepared: 01-May-23 Analyzed: 02-May-23								
Chloride	104	4.00	mg/L	100		104	80-120			
<b>LCS Dup (3050143-BSD1)</b>		Prepared: 01-May-23 Analyzed: 02-May-23								
Chloride	104	4.00	mg/L	100		104	80-120	0.00	20	

**Batch 3050222 - Filtration**

<b>Blank (3050222-BLK1)</b>		Prepared: 02-May-23 Analyzed: 05-May-23								
TDS	5.00	5.00	mg/L							
<b>LCS (3050222-BS1)</b>		Prepared: 02-May-23 Analyzed: 05-May-23								
TDS	849		mg/L	1000		84.9	80-120			
<b>Duplicate (3050222-DUP1)</b>		Source: H232099-03 Prepared: 02-May-23 Analyzed: 05-May-23								
TDS	1390	5.00	mg/L		1400			0.930	20	

**Batch 3050428 - General Prep - Wet Chem**

<b>Blank (3050428-BLK1)</b>		Prepared & Analyzed: 04-May-23								
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: DOC GOODEN WATER SAMPLING Project Number: 1732.SWD.49 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 12-May-23 09:03
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3050428 - General Prep - Wet Chem**

**LCS (3050428-BS1)** Prepared & Analyzed: 04-May-23

Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			

**LCS Dup (3050428-BSD1)** Prepared & Analyzed: 04-May-23

Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120	0.00	20	
Alkalinity, Total	250	10.0	mg/L	250		100	80-120	0.00	20	

**Batch 3050510 - General Prep - Wet Chem**

**Blank (3050510-BLK1)** Prepared & Analyzed: 05-May-23

Sulfate	ND	10.0	mg/L							
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**LCS (3050510-BS1)** Prepared & Analyzed: 05-May-23

Sulfate	19.1	10.0	mg/L	20.0		95.6	80-120			
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**LCS Dup (3050510-BSD1)** Prepared & Analyzed: 05-May-23

Sulfate	22.3	10.0	mg/L	20.0		111	80-120	15.2	20	
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**Batch 3050807 - General Prep - Wet Chem**

**LCS (3050807-BS1)** Prepared & Analyzed: 08-May-23

pH	7.09		pH Units	7.00		101	90-110			
Conductivity	508		uS/cm	500		102	80-120			

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: DOC GOODEN WATER SAMPLING Project Number: 1732.SWD.49 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 12-May-23 09:03
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3050807 - General Prep - Wet Chem**

<b>Duplicate (3050807-DUP1)</b>		<b>Source: H232243-01</b>			<b>Prepared &amp; Analyzed: 08-May-23</b>					
pH	7.54	0.100	pH Units		7.47			0.933	20	
Conductivity	4070	1.00	umhos/cm @ 25°C		4060			0.246	20	
Resistivity	0.246		Ohms/m		0.246			0.246	20	
Temperature °C	16.7		pH Units		16.7			0.00	200	

**Batch 3050808 - Filtration**

<b>Blank (3050808-BLK1)</b>		<b>Prepared: 08-May-23 Analyzed: 09-May-23</b>								
TSS	ND	2.00	mg/L							
<b>Duplicate (3050808-DUP1)</b>		<b>Source: H232204-01</b>			<b>Prepared: 08-May-23 Analyzed: 09-May-23</b>					
TSS	3060	2.00	mg/L		3830			22.4	52.7	

**Batch 3051131 - General Prep - Wet Chem**

<b>Duplicate (3051131-DUP1)</b>		<b>Source: H232243-01</b>			<b>Prepared &amp; Analyzed: 11-May-23</b>					
Specific Gravity @ 60° F	1.008	0.000	[blank]		1.000			0.710	20	

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: DOC GOODEN WATER SAMPLING Project Number: 1732.SWD.49 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 12-May-23 09:03
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**Total Recoverable Metals by ICP (E200.7) - Quality Control**

**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B231206 - Total Recoverable by ICP**

**Blank (B231206-BLK1)**

Prepared & Analyzed: 10-May-23

Magnesium	ND	0.100	mg/L							
Iron	ND	0.050	mg/L							
Potassium	ND	1.00	mg/L							
Strontium	ND	0.100	mg/L							
Barium	ND	0.050	mg/L							
Sodium	ND	1.00	mg/L							
Calcium	ND	0.200	mg/L							

**LCS (B231206-BS1)**

Prepared & Analyzed: 10-May-23

Magnesium	9.99	0.100	mg/L	10.0		99.9	85-115			
Iron	1.93	0.050	mg/L	2.00		96.4	85-115			
Sodium	1.69	1.00	mg/L	1.62		105	85-115			
Strontium	1.98	0.100	mg/L	2.00		99.2	85-115			
Calcium	1.99	0.200	mg/L	2.00		99.6	85-115			
Potassium	3.95	1.00	mg/L	4.00		98.8	85-115			
Barium	0.957	0.050	mg/L	1.00		95.7	85-115			

**LCS Dup (B231206-BSD1)**

Prepared & Analyzed: 10-May-23

Sodium	1.67	1.00	mg/L	1.62		103	85-115	1.47	20	
Potassium	3.90	1.00	mg/L	4.00		97.4	85-115	1.40	20	
Barium	0.937	0.050	mg/L	1.00		93.7	85-115	2.10	20	
Iron	1.89	0.050	mg/L	2.00		94.4	85-115	2.09	20	
Strontium	1.96	0.100	mg/L	2.00		98.0	85-115	1.18	20	
Calcium	1.95	0.200	mg/L	2.00		97.4	85-115	2.20	20	
Magnesium	9.81	0.100	mg/L	10.0		98.1	85-115	1.81	20	

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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





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 (575) 393-2326 FAX (575) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: All Consulting  
 Project Manager: Oliver Seekins  
 Address: 1718 S. Cheyenne Ave.  
 City: Tulsa State: OK Zip: 74119  
 Phone #: 918-382-7581 Fax #: Project Owner:  
 Project #: 1732.SWD.49  
 Project Name: Doc Gooden Water Sampling  
 Project Location:  
 Sampler Name: Aaron Worten  
 P.O. #: Company:  
 Attn: Address:  
 City: State: Zip:  
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Cation / Anion	Ba, Fe, Sr	Resistivity	Total Hardness	TSS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:							
H232243	L-14815 - POD1	G	X								5/5/2023	1150	X	X	X	X	

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Relinquished By: [Signature]  
 Date: 5-5-23  
 Time: 1220  
 Received By: [Signature]  
 Date: [Blank]  
 Time: [Blank]

Observed Temp. °C: 22.4  
 Corrected Temp. °C: 21.8  
 Sample Condition: Cool Intact  Yes  No  
 Checked By: [Signature]

Turnaround Time: Standard  Rush   
 Thermometer ID #113  
 Correction Factor -0.5°C  
 Bacteria (only) Sample Condition: Cool Intact  Yes  No  
 Corrected Temp. °C: [Blank]

Verbal Result:  Yes  No Add'l Phone #: [Blank]  
 All Results are emailed. Please provide Email address: OSEEKINS@ALL-LLC.COM  
 REMARKS: [Blank]

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

**Attachment 6**

Public Notice Affidavit and Notice of Application Confirmations

**APPLICATION FOR AUTHORIZATION TO INJECT**

NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION: Doc Gooden SWD #1  
Located 7.1 miles northwest of Eunice, NM  
NW ¼ SE ¼, Section 3, Township 21S, Range 36E  
1,596 FSL & 1,334' FEL  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: San Andres (4,200'–4,900')

EXPECTED MAXIMUM INJECTION RATE: 42,000 Bbls/day

EXPECTED MAXIMUM INJECTION PRESSURE: 840 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.

# 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  
May 09, 2023  
and ending with the issue dated  
May 09, 2023.



Publisher

Sworn and subscribed to before me this  
9th day of May 2023.



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

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**LEGAL NOTICE**  
May 9, 2023

**APPLICATION FOR AUTHORIZATION TO INJECT**

NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION: Doc Gooden SWD #1  
Located 7.1 miles northwest of Eunice, NM  
NW 1/4 SE 1/4, Section 3, Township 21S,  
Range 36E  
1,596 FSL & 1,334' FEL  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: San Andres (4,200'- 4,900')  
EXPECTED MAXIMUM INJECTION RATE: 42,000 Bbls/day  
EXPECTED MAXIMUM INJECTION PRESSURE: 840 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.  
#00278368

67115320

00278368

DANIEL ARTHUR  
ALL CONSULTING  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119

<b>Doc Gooden SWD #1 - Notice of Application Recipients</b>				
<b>Entity</b>	<b>Address</b>	<b>City</b>	<b>State</b>	<b>Zip Code</b>
<b>Land &amp; Mineral Owner</b>				
Millard Deck Estate, Terry Richey Trustee Senior Vice President - Sr. Trust Officer Southwest Bank Trust Department	4800 East 42nd Street	Odessa	Texas	79762
<b>OCD District</b>				
NMOCD District 1	1625 N. French Drive	Hobbs	NM	88240
<b>Leasehold Operators</b>				
New Mexico State Land Office	310 Old Sante Fe Trail	Sante Fe	NM	87501
XTO Energy Inc.	500 W. Illinois, Suite 100	Midland	TX	79701
Southwest Royalties, Inc. (SOUTHWEST ROYALTIES INC.)	6 Desta Drive, Suite 2100	Midland	TX	79705
John S. Catron & Fletcher R. Catron	P.O. Box 788	Sante Fe	NM	87504
OXY USA WTP Limited Partnership	5 E. Greenway Plaza, Suite 110	Houston	TX	77046
Empire New Mexico LLC	2200 S. Utice Pl., Suite 150	Tulsa	OK	74114
Diamond S Energy Company	6608 Bryant Irvin Rd.	Ft. Worth	TX	76132
<b>Notes:</b> The table above shows the Entities who were identified as parties of interest requiring notification on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2). The names listed above in parenthesis, are the abbreviated entity names used on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2).				



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MIDLAND TX 79701-4337

NMOCD District 1  
1625 N FRENCH DR  
HOBBS NM 88240-9273

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John S Catron & Fletcher R. Catron  
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Southwest Bank Trust Department  
Millard Deck Estate, Terry Richey  
Senior VP - Sr. Trust Officer  
4800 E 42ND ST STE 100  
ODESSA TX 79762-7214

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**Attachment 7**

Signed No Hydrological Connection Statement



Steve Drake  
 V.P. Geology and Reservoir Engineering  
 Goodnight Midstream, LLC  
 5910 North Central Expressway, Suite 850  
 Dallas, Texas 75206

RE: Goodnight Midstream, LLC Doc Gooden SWD well permit

Lot P, Section 3, Township 21S Range 36E  
 Lea County, New Mexico

Goodnight Midstream conducted a hydrogeologic investigation related to the proposed injection well. The scope of the investigation was to determine if there is any hydrologic connection between the proposed injection interval and any sources of underground drinking water.

Goodnight geologist performed an analysis of subsurface well log data. It is our conclusion that there is no evidence of faulting in the data we evaluated at the depths that are being considered. There are small scale flexures which may or may not be associated with small scale faults. None of these flexures extend above the Wolfcamp unconformity and are not seen in the Leonard intervals.

Goodnight acquired and evaluated 3D seismic to the west but does not cover the lands that this salt water disposal well is located upon. This data shows the geologic setting in the area. No faults are seen in the Artesia Group, San Andres, Glorieta, or Leonard series. The San Andres contains small scale flexures and changes in seismic velocity that may indicate karsting. These flexures and velocity anomalies are being used to target disposal reservoir opportunities. The Grayburg thickens over the San Andres sag. There is also a thickening of the Yates relative to the low in the San Andres. These stratigraphic changes do not indicate the presence of faulting and there is no communication between these intervals.

Water has been disposed into the San Andres in this area since 1966. There is a good record of pressure separation. Production from the Artesia group has proceeded without interruption or encroachment from San Andres disposal for more than 50 years. Containment and isolation from the hydrocarbon intervals would then also be isolated from any sources of fresh water above.

We see no evidence of faulting that would extend to or form a connection between the injection zone and any underground sources of drinking water.

Steve Drake  
 V.P. Geology and Reservoir Engineering  
 Goodnight Midstream, LLC

4/6/2023  
 Date



May 12, 2023

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

Subject: Goodnight Midstream Permian, LLC – Hernandez SWD # 1  
Application for Authorization to Inject

To Whom It May Concern,

On behalf of Goodnight Midstream Permian, LLC (Goodnight), ALL Consulting, LLC (ALL) is submitting the enclosed Application for Authorization to Inject for the Hernandez SWD #1, a proposed salt water disposal well, in Lea County, NM.

Should you have any questions regarding the enclosed application, please contact Nate Alleman at (918) 382-7581 or [nalleman@all-llc.com](mailto:nalleman@all-llc.com).

Sincerely,  
ALL Consulting

Nate Alleman  
Sr. Regulatory Specialist

BEFORE THE OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
Exhibit No. A-5  
Submitted by: Goodnight Midstream Permian, LLC  
Hearing Date: September 23, 2024  
Case Nos. 23614-23617, 23775,  
24018 – 24020, 24025, 24123

---

ALL Consulting      1718 South Cheyenne Ave.      Tulsa, OK 74119  
Phone 918.382.7581      Fax 918.382.7582      [www.ALL-LLC.com](http://www.ALL-LLC.com)



RECEIVED:	REVIEWER:	TYPE:	APP NO:
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Geological & Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: \_\_\_\_\_ OGRID Number: \_\_\_\_\_  
 Well Name: \_\_\_\_\_ API: \_\_\_\_\_  
 Pool: \_\_\_\_\_ Pool Code: \_\_\_\_\_

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW**

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]  
 A. Location – Spacing Unit – Simultaneous Dedication  
 NSL       NSP (PROJECT AREA)       NSP (PRORATION UNIT)       SD
- B. Check one only for [ I ] or [ II ]  
 [ I ] Commingling – Storage – Measurement  
 DHC    CTB    PLC    PC    OLS    OLM  
 [ II ] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery  
 WFX    PMX    SWD    IPI    EOR    PPR

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.  
 A.  Offset operators or lease holders  
 B.  Royalty, overriding royalty owners, revenue owners  
 C.  Application requires published notice  
 D.  Notification and/or concurrent approval by SLO  
 E.  Notification and/or concurrent approval by BLM  
 F.  Surface owner  
 G.  For all of the above, proof of notification or publication is attached, and/or,  
 H.  No notice required

<u>FOR OCD ONLY</u>	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	Application Content Complete

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

\_\_\_\_\_  
Print or Type Name

*Nathan Aleman*  
\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Phone Number


\_\_\_\_\_  
e-mail Address

STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL  
RESOURCES DEPARTMENT

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

FORM C-108  
Revised June 10, 2003

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance  X  Disposal  
\_\_\_\_\_ Storage Application qualifies for administrative approval?  X  Yes \_\_\_\_\_ No
- II. OPERATOR:  Goodnight Midstream Permian, LLC   
ADDRESS:  5910 N Central Expressway, Suite 850, Dallas, TX 75206   
CONTACT PARTY:  Grant Adams  PHONE:  214-444-7388(0)
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? \_\_\_\_\_ Yes  X  No  
If yes, give the Division order number authorizing the project: \_\_\_\_\_
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
  1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- \*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.  
NAME:  Nathan Alleman  TITLE:  Sr. Regulatory Specialist   
SIGNATURE:    DATE:  5/12/2023   
E-MAIL ADDRESS:  nalleman@all-llc.com
- XV. If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: \_\_\_\_\_

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office



Side 2

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

---

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Application for Authorization to Inject  
Well Name: Hernandez SWD #1

### III – Well Data *(The Wellbore Diagram is included as Attachment 1)*

A.

#### (1) General Well Information:

Operator: Goodnight Midstream Permian, LLC (OGRID No. 372311)  
Lease Name & Well Number: Hernandez SWD #1  
Location Footage Calls: 326 FSL & 793 FEL  
Legal Location: Unit Letter P, S10 T21S R36E  
Ground Elevation: 3,571'  
Proposed Injection Interval: 4,200' – 5,300'  
County: Lea

#### (2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	17-1/2"	13-3/8"	54.5 lb./ft	1,355'	1,180	Surface	Circulation
Production	12-1/4"	9-5/8"	40.0 lb./ft	5,300'	1,400	Surface	Circulation
Tubing	N/A	5-1/2"	17.0 lb./ft	4,150'	N/A	N/A	N/A

#### (3) Tubing Information:

5-1/2" (composite weight string) of fiberglass-coated tubing with setting depth of 4,150'

(4) Packer Information: Baker Hornet or equivalent packer set at 4,150'

B.

(1) Injection Formation Name: San Andres

Pool Name: SWD; SAN ANDRES

Pool Code: 96121

(2) Injection Interval: Perforated injection between 4,200' – 5,300'

(3) Drilling Purpose: New Drill for Salt Water Disposal

(4) Other Perforated Intervals: No other perforated intervals exist.

(5) Overlying Oil and Gas Zones: Below are the approximate formation tops for known oil and gas producing zones in the area.

- Grayburg (3,735')

Underlying Oil and Gas Zones: Below is the approximate formation tops for known oil and gas producing zones in the area.

- Glorieta (5,303')
- Tubb (6,810')

## V – Well and Lease Maps

The following maps are included in **Attachment 2**:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List with Penetrating Well Casing and Plugging Information.
- Plugged Penetrating Wellbore Diagrams.
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

## VI – AOR Well List

A list of the wells within the 1/2-mile AOR is included in **Attachment 2**.

There are six wells that penetrate the injection zone, three of which has been properly plugged and abandoned, while the other three wells have been properly cased and cemented to isolate the San Andres. A wellbore diagram and casing information for each of these wells is included in **Attachment 2**.

## VII – Proposed Operation

- (1) **Proposed Maximum Injection Rate:** 42,000 bpd  
**Proposed Average Injection Rate:** 27,500 bpd
- (2) A closed system will be used.
- (3) **Proposed Maximum Injection Pressure:** 840 psi (surface)  
**Proposed Average Injection Pressure:** approximately 537 psi (surface)
- (4) **Source Water Analysis:** It is expected that the injectate will consist of produced water from production wells completed in the Delaware Mountain Group (DMG), Wolfcamp, and Bone Springs formations. Analysis of water from these formations is included in **Attachment 3**.
- (5) **Injection Formation Water Analysis:** The proposed SWD will be injecting water into the San Andres formation which is a non-productive zone known to be compatible with formation water from the DMG, Wolfcamp and Bone Springs formations. Water analyses from the San Andres formation in the area are included in **Attachment 4**.

## VIII – Geologic Description

The proposed injection interval includes the San Andres formation from 4,200 – 5,300 feet. The Permian San Andres formation consists of interbedded carbonates rock including dolomites, siltstones and sands. Several thick intervals of porous and permeable carbonate rock capable of taking water are present within the subject formation in the area.

The deepest underground source of groundwater (USDW) is the Rustler formation at a depth of approximately 1,330 feet. Water well depths in the area range from approximately 147 - 220 feet below ground surface.

### **IX – Proposed Stimulation Program**

A small cleanup acid job may be used to remove mud and drill cuttings from the formation. However, no other formation stimulation is currently planned.

### **X – Logging and Test Data**

Logs will be submitted to the Division upon completion of the well.

### **XI – Fresh Groundwater Samples**

Based on a review of data from the New Mexico Office of the State Engineer, 4 groundwater wells are located within 1 mile of the proposed SWD location. One of the groundwater wells located within one mile has been sampled (CP-01696 POD 1 on 8/26/2021). The remaining three water wells were determined to not be active freshwater wells.

A water well map, details of water wells within 1-mile, and water sampling results for CP-01696 POD 1 are included in **Attachment 5**.

### **XII – No Hydrologic Connection Statement**

No faulting is present in the area that would provide a hydrologic connection between the injection interval and overlying USDWs. Additionally, the casing program has been designed to ensure there will be no hydrologic connection between the injection interval and overlying USDWs.

A signed no hydrological connection statement is included as **Attachment 7**.

### **XIII – Proof of Notice**

A Public Notice was filed with the Hobbs News-Sun newspaper and an affidavit is included in **Attachment 6**.

A copy of the application was mailed to the OCD District Office, landowner, and leasehold operators within 1/2-mile of the proposed SWD location. A list of the recipients, as well as delivery confirmations, are included in **Attachment 6**.

# Attachments

**Attachment 1:** Well Details:

- C-102
- Wellbore Diagram

**Attachment 2:** Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- Wellbore Diagrams - Plugged penetrating wells
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

**Attachment 3:** Source Water Analyses

**Attachment 4:** Injection Formation Water Analyses

**Attachment 5:** Water Well Map and Well Data

**Attachment 6:** Public Notice Affidavit and Notice of Application Confirmations

**Attachment 7:** No Hydrological Connection Statement

**Attachment 1**

- C-102
- Wellbore Diagram



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

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-	Pool Code 96121	Pool Name SWD; SAN ANDRES
Property Code	Property Name HERNANDEZ SWD	Well Number 1
OGRID No. 372311	Operator Name GOODNIGHT MIDSTREAM PERMIAN, LLC	Elevation 3571'

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	10	21 S	36 E		326'	SOUTH	793'	EAST	LEA

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
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.*

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

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

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

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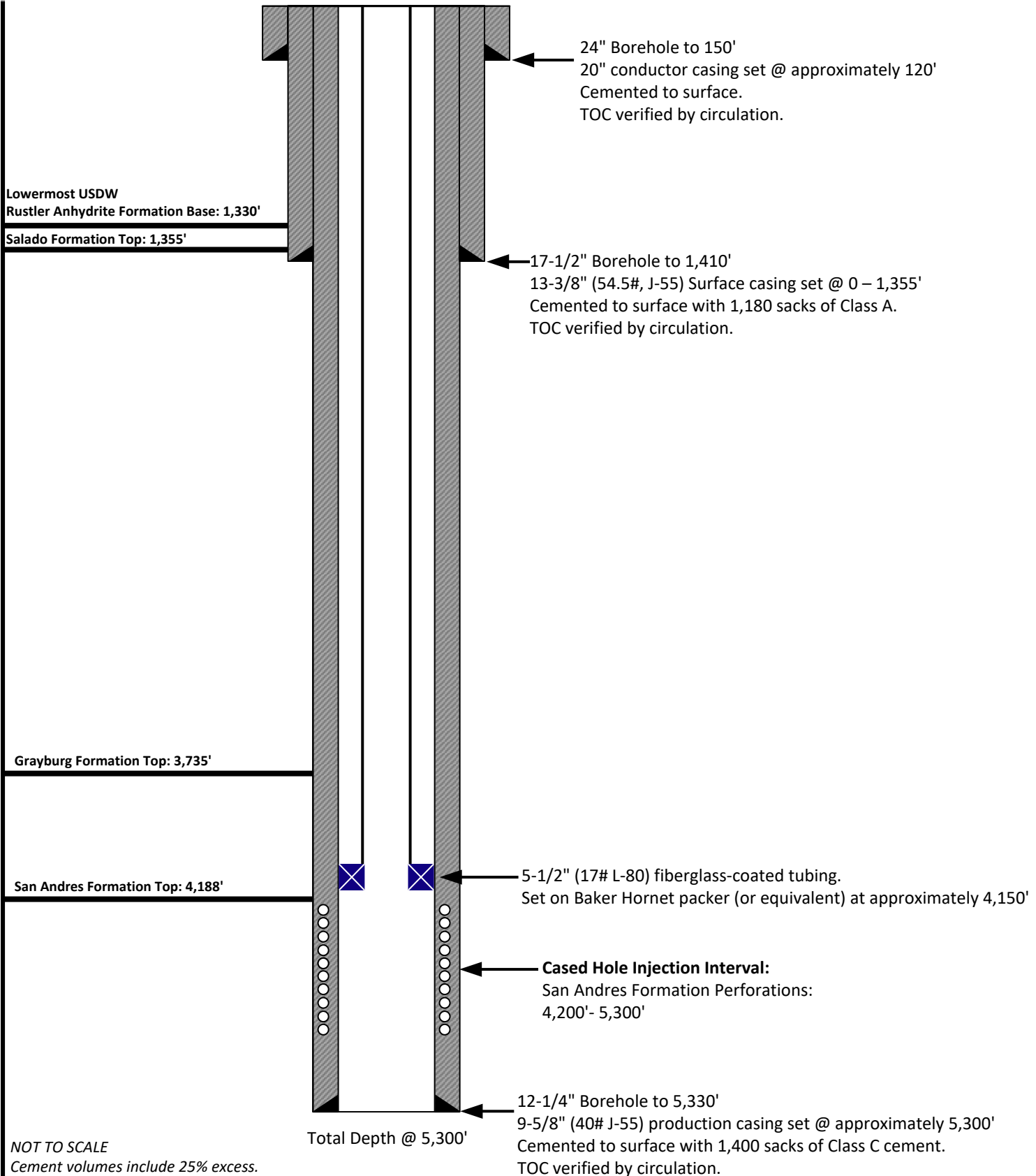
**SURVEYOR CERTIFICATION**

*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: 04/28/2023

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

Certificate Number: 21209  
TIM C. PAPPAS



NOT TO SCALE  
Cement volumes include 25% excess.  
Anticipated daily maximum volume: 42,000 bwpd  
Maximum surface Injection Pressure: 840 psig  
(0.2 psi/ft to the top of the injection interval)

Prepared by:  
**ALLCONSULTING**  
Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Drawn by: Joshua Ticknor, P.E.  
Project Manager:  
Nathan Alleman  
Date: 4/11/2023

**Goodnight Midstream Permian, LLC**  
Proposed Wellbore Diagram  
Hernandez SWD #1  
326' FSL & 793' FEL  
Section 10 , Twp 21 S, Rng 36 E  
Lea County, New Mexico

## HORNET Packer

Product Family No. H64682

## HORNET EL Packer

Product Family No. H64683

The mechanically set HORNET™ packer offers ease of operation with quarter-turn right to set and release. Converting it for wireline-setting applications is simple and inexpensive. The HORNET packer provides for landing in compression, tension, or neutral positions. Every component from the jay track, to the internal bypass, to the packing-element system and the upper slip assembly has been developed to ensure the HORNET's setting and releasing reliability.

The HORNET EL packer is run and set on electric line using an E-4™ (Product Family No. H43702) with a slow-set power charge or a J™ setting tool (Product Family No. H41371) and a special wireline adapter kit. An L-10™ type on/off seal nipple is run on top of the packer to connect the tubing to the packer and to house a blanking plug when the packer is used as a temporary bridge plug.

### Features and Benefits

- Upper Slip Assembly:
  - Thoroughly tested across API minimum to maximum casing ID tolerances for each specified casing weight, for setting and releasing reliability
  - Slip-wicker configuration providing bidirectional-load support with solid upper cone to support highest tensile loads
  - Staged-release action eliminates high-overpull requirement
  - Minimal set-down weight required to anchor slips
- Internal Bypass Seal:
  - Durable bypass seal design provides sealing after unloading, under differential pressures
  - No O-ring sealing system
- Packing Element System:
  - Fully tested to combined ratings at the API's maximum ID tolerance
  - Patented enhancements to control overboost
  - High-performance, three-piece element system
- Lower Slip and Jay Assembly:
  - Slips and drag blocks tested to maximum API tolerance ID for positive set and ease of release
  - One-quarter-turn right setting and releasing action
  - Packoff of packing elements with applied tension or compression
  - Spacing in jay ensures opening of internal bypass, before slip releasing action begins—important to both ease of release and safety
  - Automatically returns to running position



HORNET Packer  
Product Family  
No. H64682

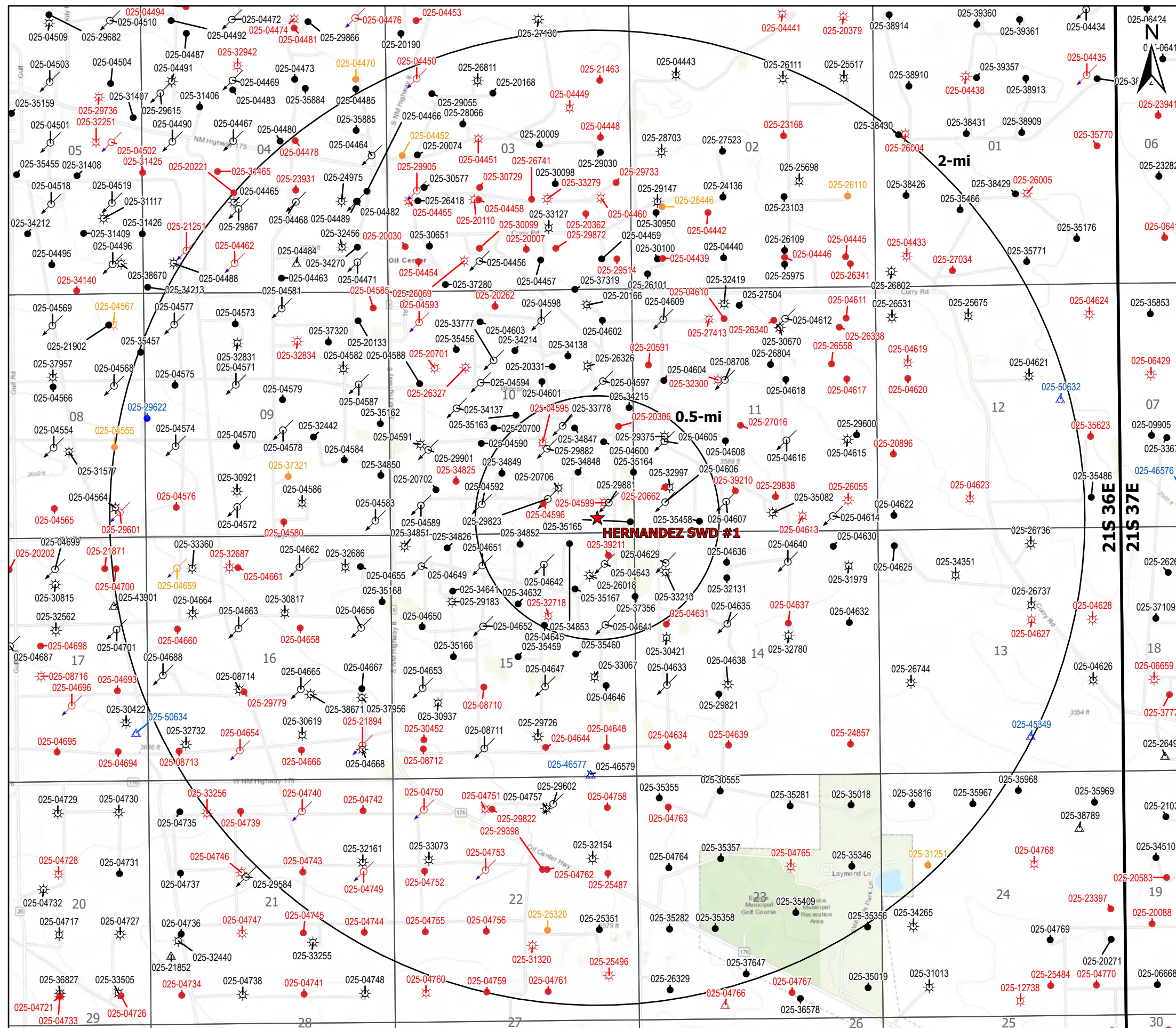
HORNET EL Packer  
Product Family  
No. H64683

## **Attachment 2**

### Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- Wellbore Diagrams - Plugged penetrating wells
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map





### Legend

- ★ Proposed SWD
- ☀ Gas, Active (84)
- ☀ Gas, Plugged (49)
- ☀ Gas, Temporarily Abandoned (1)
- ⊙ Injection, Active (72)
- ⊙ Injection, Plugged (16)
- ⊙ Injection, Temporarily Abandoned (1)
- Oil, Active (164)
- Oil, New (1)
- Oil, Plugged (107)
- Oil, Temporarily Abandoned (8)
- △ Salt Water Injection, Active (6)
- △ Salt Water Injection, New (6)
- △ Salt Water Injection, Plugged (1)

Source Info: NMOCD O&G Wells updated 1/17/2023  
<https://www.emnrd.nm.gov/ocd/ocd-data/ftp-server/>

<b>O&amp;G Wells Area of Review</b>		
<b>HERNANDEZ SWD #1</b>		
LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM		Prepared by: <b>ALLCONSULTING</b>

### AOR Tabulation for Hernandez SWD #1 (Injection Interval: 4,200' - 5,300')

Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth	Penetrate Inj. Zone?
STATE D #018	30-025-32718	Plugged	CONOCOPHILLIPS COMPANY	11/1/1994	G-15-21S-36E	(Plugged) 3,654	No
STATE D COM #019	30-025-32997	Gas	PENROC OIL CORP	7/5/1995	M-11-21S-36E	3,685	No
LOCKHART B #012	30-025-33210	Gas	PENROC OIL CORP	4/4/1996	D-14-21S-36E	3,700	No
STATE D COM #016	30-025-29375	Gas	PENROC OIL CORP	12/31/9999	L-11-21S-36E	3,750	No
STATE D #014	30-025-26018	Gas	PENROC OIL CORP	7/31/1978	A-15-21S-36E	3,800	No
PRE-ONGARD WELL #002	30-025-04596	Plugged	PRE-ONGARD WELL OPERATOR	1/1/1900	O-10-21S-36E	(Plugged) 3,860	No
EUNICE MONUMENT SOUTH UNIT #358	30-025-04642	Injection	Empire New Mexico LLC	7/17/1936	B-15-21S-36E	3,865	No
JOHN D KNOX #001	30-025-04595	Plugged	EXXON MOBIL CORPORATION	2/16/1936	J-10-21S-36E	(Plugged) 3,865	No
EUNICE MONUMENT SOUTH UNIT #344	30-025-04592	Injection	Empire New Mexico LLC	3/3/1936	N-10-21S-36E	3,865	No
EUNICE MONUMENT SOUTH UNIT #357	30-025-04643	Injection	Empire New Mexico LLC	7/29/1936	A-15-21S-36E	3,875	No
EUNICE MONUMENT SOUTH UNIT #387	30-025-04645	Oil	Empire New Mexico LLC	11/1/1936	G-15-21S-36E	3,880	No
JOHN D KNOX #005	30-025-04599	Plugged	EXXON MOBIL CORPORATION	9/6/1936	P-10-21S-36E	(Plugged) 3,885	No
EUNICE MONUMENT SOUTH UNIT #315	30-025-04600	Oil	Empire New Mexico LLC	3/20/1981	I-10-21S-36E	3,890	No
EUNICE MONUMENT SOUTH UNIT #699	30-025-34215	Oil	Empire New Mexico LLC	2/23/1998	H-10-21S-36E	3,893	No
EUNICE MONUMENT SOUTH UNIT #739	30-025-35458	Oil	Empire New Mexico LLC	5/15/2001	N-11-21S-36E	3,910	No
EUNICE MONUMENT SOUTH UNIT #737	30-025-34853	Oil	Empire New Mexico LLC	2/29/2000	B-15-21S-36E	3,914	No
EUNICE MONUMENT SOUTH UNIT #708	30-025-34848	Oil	Empire New Mexico LLC	2/19/2000	I-10-21S-36E	3,920	No
EUNICE MONUMENT SOUTH UNIT #707	30-025-35164	Oil	Empire New Mexico LLC	10/27/2000	P-10-21S-36E	3,920	No
EUNICE MONUMENT SOUTH UNIT #736	30-025-34852	Oil	Empire New Mexico LLC	3/15/2000	B-15-21S-36E	3,925	No
EUNICE MONUMENT SOUTH UNIT #698	30-025-34847	Oil	Empire New Mexico LLC	4/1/2000	I-10-21S-36E	3,925	No
EUNICE MONUMENT SOUTH UNIT #738	30-025-35165	Oil	Empire New Mexico LLC	11/4/2000	P-10-21S-36E	3,930	No
EUNICE MONUMENT SOUTH UNIT #709	30-025-34849	Oil	Empire New Mexico LLC	3/8/2000	K-10-21S-36E	3,930	No
EUNICE MONUMENT SOUTH UNIT #347	30-025-04606	Injection	Empire New Mexico LLC	9/10/1936	M-11-21S-36E	3,935	No
EUNICE MONUMENT SOUTH UNIT #356	30-025-04629	Injection	Empire New Mexico LLC	8/21/1936	D-14-21S-36E	3,941	No
EUNICE MONUMENT SOUTH UNIT #747	30-025-35167	Oil	Empire New Mexico LLC	11/15/2000	A-15-21S-36E	3,946	No
EUNICE MONUMENT SOUTH UNIT #748	30-025-34632	Oil	Empire New Mexico LLC	7/2/1999	G-15-21S-36E	3,950	No
EUNICE MONUMENT SOUTH UNIT #388	30-025-04641	Injection	Empire New Mexico LLC	6/11/1934	H-15-21S-36E	4,000	No
EUNICE MONUMENT SOUTH UNIT #346	30-025-29881	Injection	Empire New Mexico LLC	12/31/9999	P-10-21S-36E	4,050	No
EUNICE MONUMENT SOUTH UNIT #316	30-025-29882	Injection	Empire New Mexico LLC	4/24/1987	J-10-21S-36E	4,050	No
EUNICE MONUMENT SOUTH UNIT #345	30-025-29823	Injection	Empire New Mexico LLC	3/22/1987	O-10-21S-36E	4,054	No
EUNICE MONUMENT SOUTH UNIT #314	30-025-04605	Injection	Empire New Mexico LLC	8/2/1936	L-11-21S-36E	4,091	No
EUNICE MONUMENT SOUTH UNIT #746	30-025-37356	Oil	Empire New Mexico LLC	8/26/2005	H-15-21S-36E	5,455	Yes
STATE D BATTERY 2 #130	30-025-20662	Plugged	CONOCO INC	11/21/1990	M-11-21S-36E	(Plugged) 6,000	Yes
JOHN D KNOX #012	30-025-20706	Gas	Empire New Mexico LLC	3/27/1964	O-10-21S-36E	6,020	Yes
JOHN D KNOX #014	30-025-33778	Injection	Empire New Mexico LLC	1/1/1998	J-10-21S-36E	6,220	Yes
JOHN D KNOX #011	30-025-20306	Plugged	Empire New Mexico LLC	11/23/1963	I-10-21S-36E	(Plugged) 6,225	Yes
STATE D 15 #002	30-025-39211	Plugged	CONOCOPHILLIPS COMPANY	2/18/2009	A-15-21S-36E	(Plugged) 7,197	Yes

Notes:



### Casing Information for Wells Penetrating the Hernandez SWD #1 Injection Zone

Well Name	Surface Casing						Intermediate Casing					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole size	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
EUNICE MONUMENT SOUTH UNIT #746	1274'	8.625"	Surface	Circulation	625	12.25"	5450'	5.5"	Surface	Circulation	990	7.875"
STATE D BATTERY 2 #130	1339'	7.625"	Surface	Circulation	375	11"	6000'	4.5"	2450'	Temp. Survey	370	6.75"
JOHN D KNOX #012	1353'	7.625"	Surface	Circulation	450	9.875"	6020'	4.5"	2500'	Temp. Survey	525	6.75"
JOHN D KNOX #014	1350'	8.625"	Surface	Circulation	800	12.25"	6400'	5.5"	Surface	Circulation	1200	7.875"
JOHN D KNOX #011	1318'	7.625"	Surface	Circulation	575	11"	6214'	4.5"	2400'	Temp. Survey	500	6.75"
STATE D 15 #002	1380'	8.625"	Surface	Circulation	640	12.25"	7187'	5.5"	Surface	Circulation	1485	7.875"

Well Name	Plugging Information
EUNICE MONUMENT SOUTH UNIT #746	-
STATE D BATTERY 2 #130	CIBP set at 5800' and spot 7 sacks cement on top. Perforated at 1470' and pumped 270 sacks cement to surface.
JOHN D KNOX #012	-
JOHN D KNOX #014	-
JOHN D KNOX #011	CIBP set at 5,745' with 2.5 sack cement on top. Cement plugs set at 5,288'-5,723' with 30 sks, 2510' - 2940' with 25 sks, Cement plugged squeezed at 948' - 1368' with 50 sks, cement plug set from the surface to 300'.
STATE D 15 #002	CIBP set at 6,849' and 25 sack cement placed on top. Set second CIBP at 5,648' and placed 25 sack cement on top. 50 sack Cement plug set at 3721' - 4020', 25 sack plugs set at 2471' - 2478', and 1,226'- 1,481'. Spot 45 sks cement from Surface - 413'.

Lowermost USDW  
Rustler Anhydrite Formation Base: 1,225'

Salado Formation Top: 1,250'

7-5/8" 24# surface casing set at approximately 1,339'.

375 sacks cement circulated to surface.

270 sack cement plug squeezed at 1,470' . Top of plug at surface.

Geologic Isolation: 2,250'

Production casing top of cement 2,450'

**Hernandez SWD #1 Injection Interval:**  
San Andres Formation 4,200'- 5,300'

CIBP with cement placed on top:  
5,694'-5,800'

**Squeezed Perforated Interval:**

5,825'-5,960'

**Plugged Perforated Interval:**

5,889'-5,956'

4-1/2" 9.5# & 11.6# production casing set at approximately 6,000' using 370 sacks cement. Top of cement at 2,450' by temp survey.

**Total Depth:**  
6,000'

Not to Scale

Prepared by:



Prepared for:

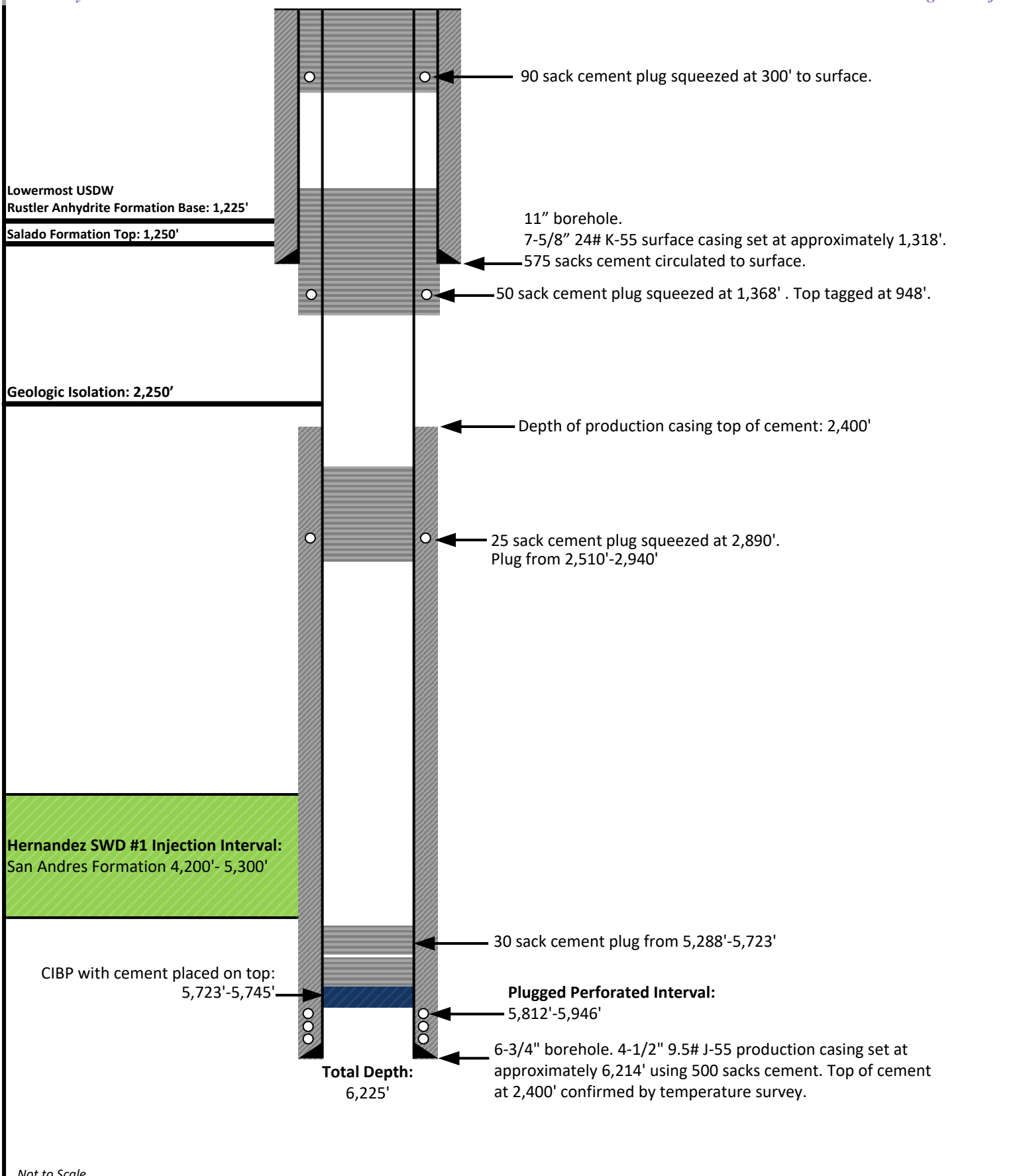


Drawn by: Joshua Ticknor



Project Manager:  
Nathan Alleman

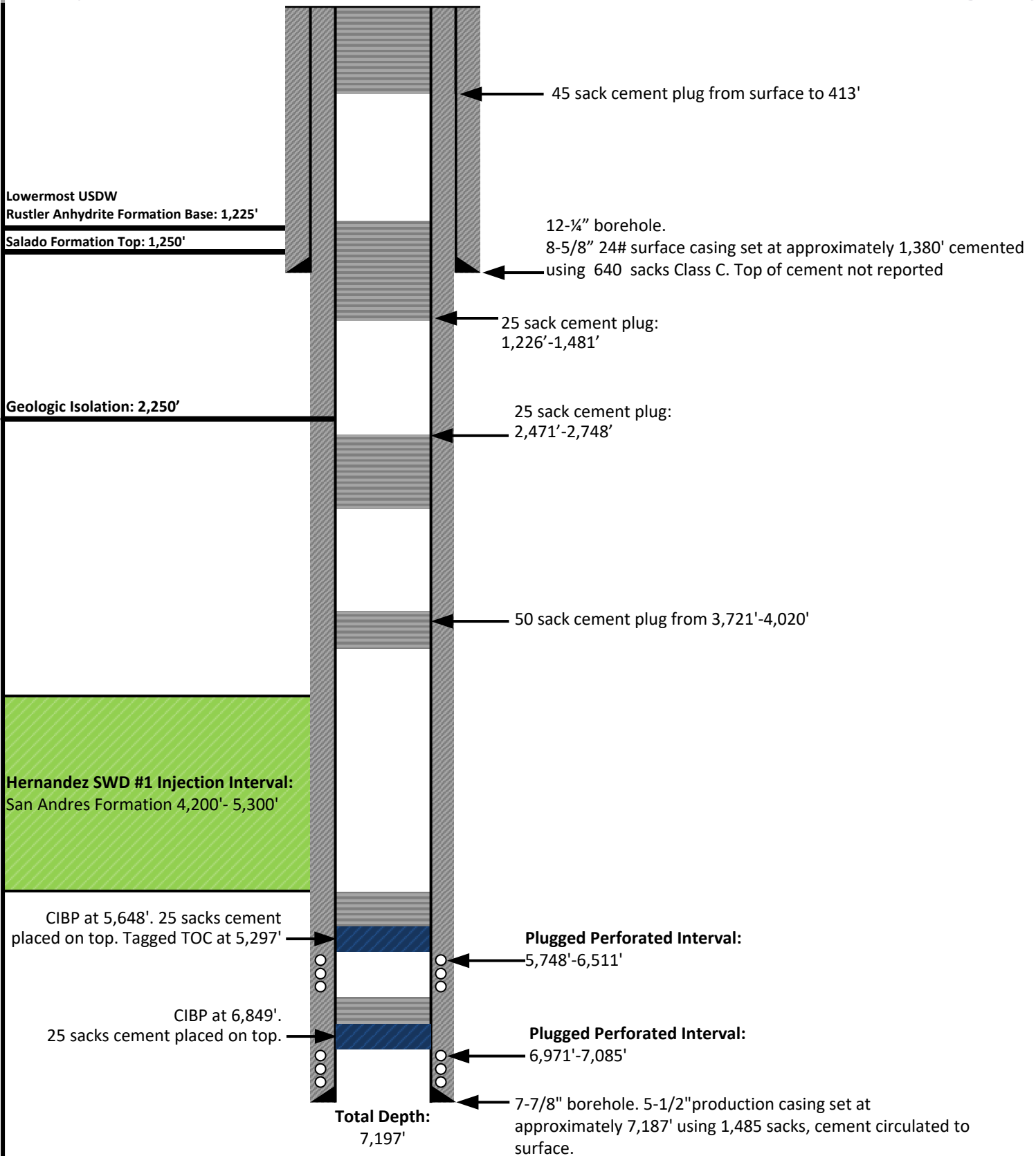
Date: 05/05/2023

State D Battery 2 #130  
Wellbore Diagram  
API: 30-025-20662  
Spud Date: 8/28/1964  
Plugged and Abandoned: 11/21/1990  
Operated By: Conoco Inc.





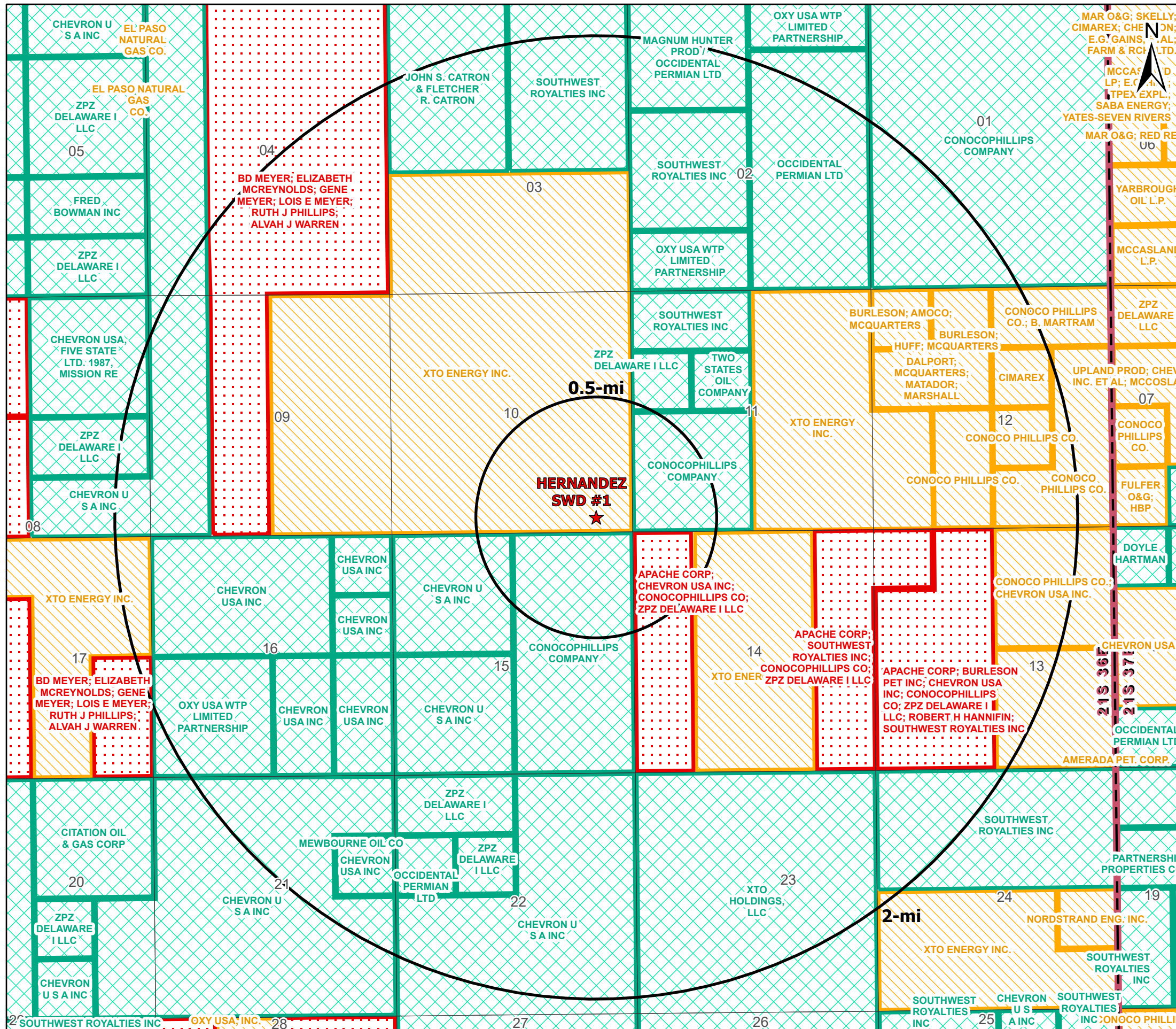
Not to Scale

<p>Prepared by:</p>  <p>Prepared for:</p> 	<p>Drawn by: Joshua Ticknor</p>	<p>John D Knox #11 Wellbore Diagram API: 30-025-20306 Plugged and Abandoned: 03/11/2020 Operated By: XTO Energy Inc.</p>
	<p>Project Manager: Nathan Alleman</p>	
	<p>Date: 05/05/2023</p>	



Not to Scale

<p>Prepared by:</p>  <p>Prepared for:</p> 	<p>Drawn by: Joshua Ticknor</p>	<p>State D-15 Wellbore Diagram API: 30-025-39211 Spud Date: 02/18/2009 Plugged and Abandoned: 05/9/2012 Operated By: Conoco Phillips Company</p>
	<p>Project Manager: Nathan Alleman</p>	
	<p>Date: 05/05/2023</p>	



### Legend

- ★ Proposed SWD
- NMSLO Mineral Leases
- BLM Mineral Leases
- Private Mineral Leases

## Mineral Lease Area of Review

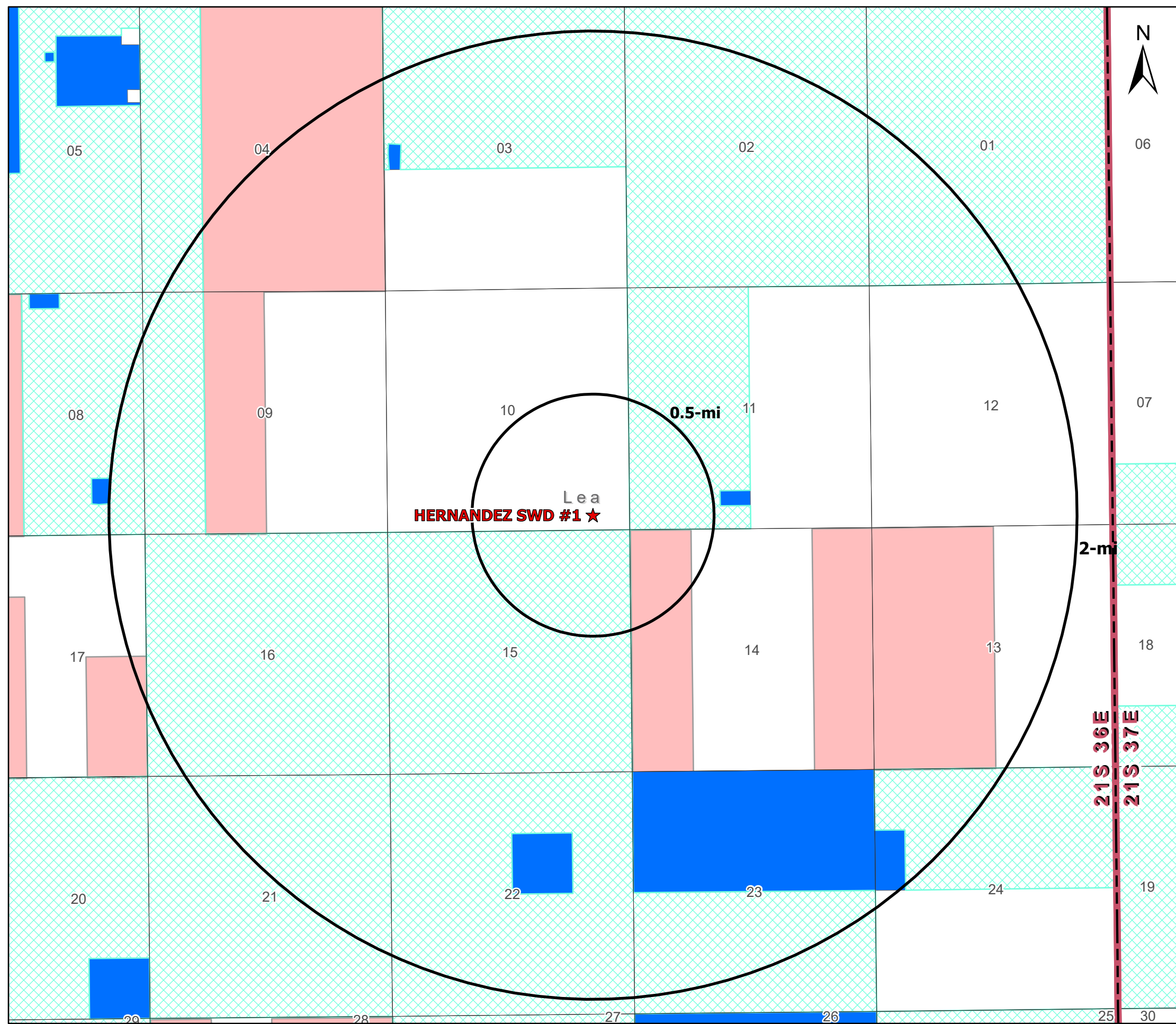
### HERNANDEZ SWD #1

LEA COUNTY, NEW MEXICO

Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: 	Prepared by: 	





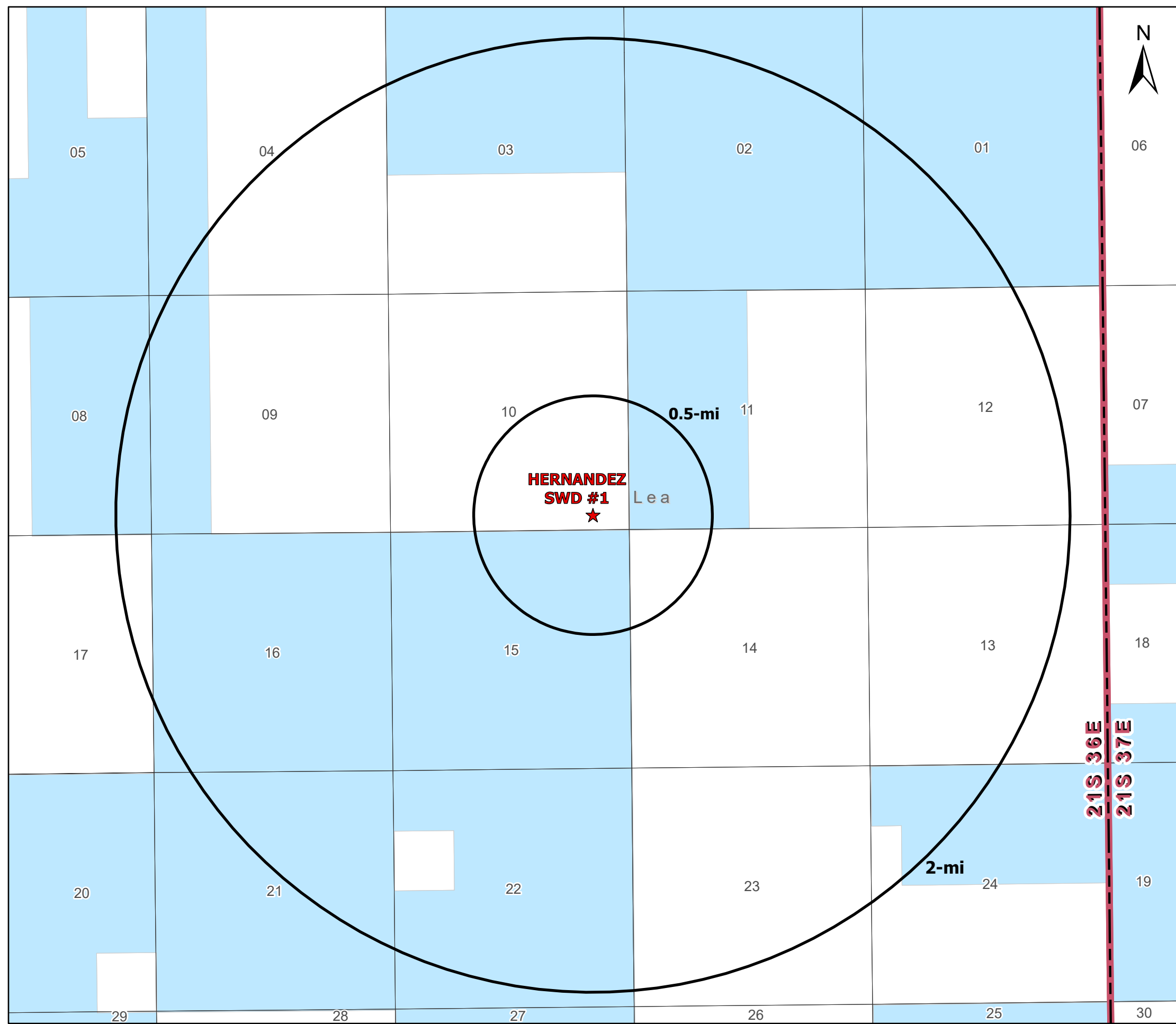


### Legend

- ★ Proposed SWD
- Private minerals
- Subsurface minerals (NMSLO)
- ▨ Surface and Subsurface minerals (NMSLO)
- All minerals are owned by U.S. (BLM)

<b>Mineral Ownership Area of Review</b>		
<b>HERNANDEZ SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> <small>MIDSTREAM</small>	Prepared by: <b>ALLCONSULTING</b>	





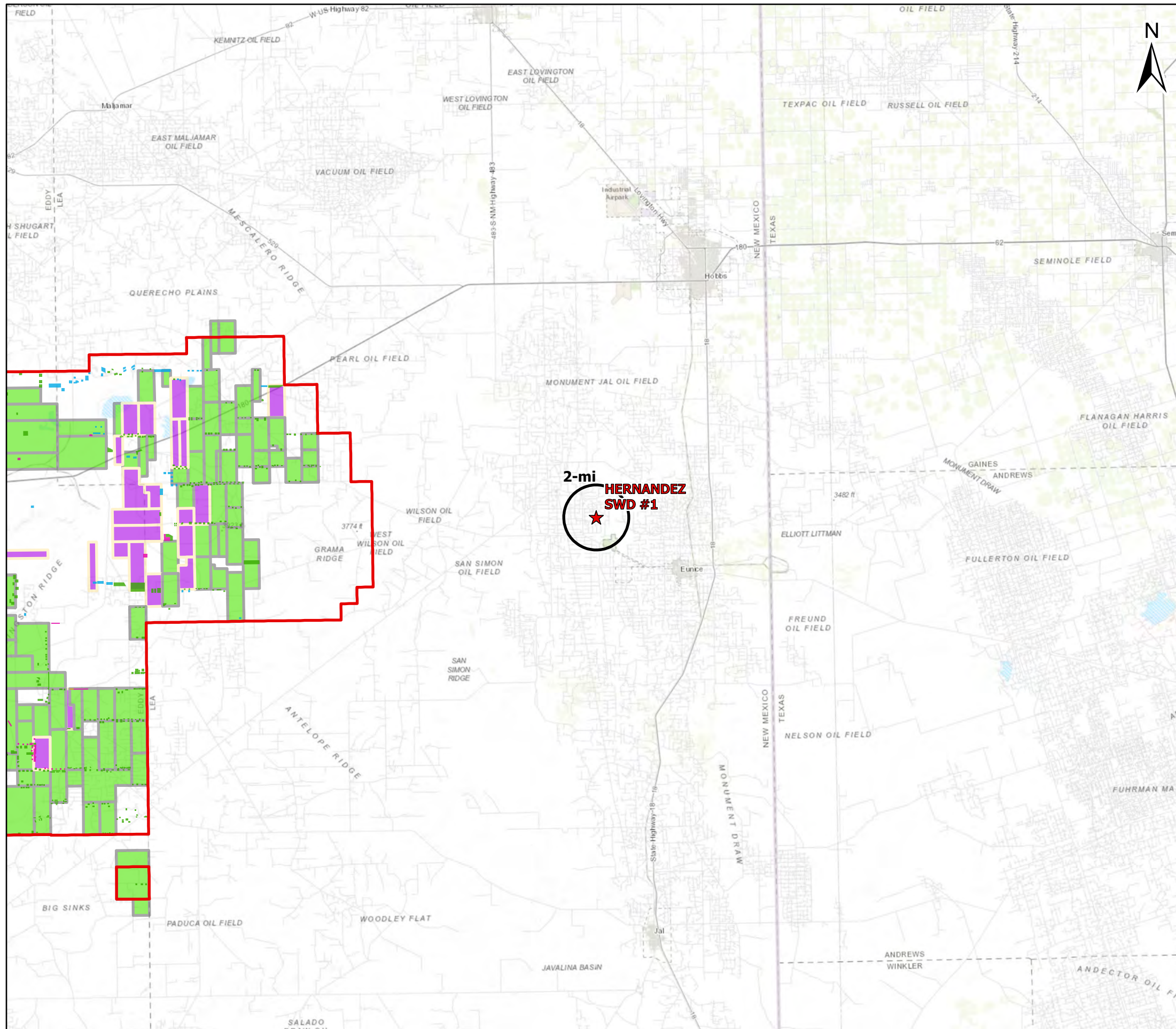
**Legend**

- ★ Proposed SWD

**Surface Ownership**

- Private
- State

<b>Surface Ownership Area of Review</b>		
<b>HERNANDEZ SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM		Prepared by: <b>ALL</b> CONSULTING



### Legend

- ★ Proposed SWD (1)
  - SOPA 1986 (2)
- ### Drill Islands
- #### Status, Depth Buffer
- Approved, Half Mile (283)
  - Approved, Quarter Mile (26)
  - Nominated, Half Mile (46)
  - Nominated, Quarter Mile (1)
- ### Development Areas
- #### Status
- Approved (86)
  - Pending (24)
  - Pending NMOCD Order (0)

<b>Potash Area of Review</b>		
<b>HERNANDEZ SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM	Prepared by: <b>ALLCONSULTING</b>	

**Attachment 3**

Source Water Analyses



Source Water Formation Analysis																	
Goodnight Midstream Permian, LLC - Bone Spring, Wolfcamp & Delaware Formations																	
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND	109,808	66,985	281	1,030
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND	139,905	85,081	293	740
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	184,420	115,274	268	765
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON	266,468	167,562	366	-
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON		224,384	366	210
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON		169,000	37	341
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND		68,000	427	97
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND		77,000	305	1,600
GAUCHO UNIT #014H	3002541571	32.3840523	-103.4984589	20	22S	34E	D	150N	660W	Lea	NM		BONE SPRING 2ND SAND		82,000	220	624
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	158,147	96,378	232	710
MOBIL LEA STATE #001	3002531696	32.5999107	-103.5331573	2	20S	34E	K	1800S	1980W	LEA	NM	LEA NORTHEAST	DELAWARE	152,064	102,148	404	691
MOBIL LEA STATE #003	3002532105	32.5976906	-103.5367584	2	20S	34E	M	990S	870W	LEA	NM	LEA NORTHEAST	DELAWARE	296,822	215,237	143	294
MOBIL LEA STATE #005	3002532466	32.6028633	-103.5367584	2	20S	34E	E	2440N	870W	LEA	NM	LEA NORTHEAST	DELAWARE	340,838	245,270	229	147
LEA UNIT #004H	3002502424	32.5895081	-103.524559	11	20S	34E	H	1980N	660E	LEA	NM	LEA	BONE SPRING	29,436	16,720	634	1,142
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	DELAWARE	214,787	132,700	208	1,816
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	BONE SPRING	15,429			
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	BONE SPRING	180,701	108,300	1,016	670
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	LEA	NM	LEA	BONE SPRING	202,606	118,100	5,196	992
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	LEA	NM	LEA	BONE SPRING	121,800			
LEA UNIT #008	3002502431	32.5927162	-103.511673	12	20S	34E	B	810N	1980E	LEA	NM	LEA	BONE SPRING	147,229	89,640	108	1,038
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND	261,089	160,264	122	425
MONK 21 STATE #004H	3002542193	32.47107672	-103.4727296	21	21S	34E	B	200N	1980E	Lea	NM		BONE SPRING 2ND SAND	184,233	112,775	488	425
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND		103,000	207	439
H L VINSON #001	3002503587	33.5251312	-103.237999	22	09S	36E	A	660N	660E	Lea	NM		WOLFCAMP		66,400	187	690
PHILLIPS STATE #001	3002503659	33.3458824	-103.2939529	22	11S	36E	N	660S	1980W	LEA	NM	CINDY	WOLFCAMP	78,885	47,400	354	875
STATE CA #001	3002503743	32.902153	-103.3229828	23	16S	36E	O	660S	1980E	LEA	NM	LOVINGTON	WOLFCAMP	167,968	102,800	61	623
SINCLAIR STATE #002	3002503123	32.7386246	-103.4561005	21	18S	35E	A	660N	660E	LEA	NM	VACUUM SOUTH	WOLFCAMP	60,950	33,568	1,087	3,049

**Attachment 4**

Injection Formation Water Analyses

Goodnight Midstream Permian, LLC - San Andres Formation																	
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
SIMMONS #001	3002510070	32.4232674	-103.1821976	5	22S	37E	G	1760N	1760E	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	78,653	46,510	580	2,184
C P FALBY B FEDERAL #004	3002510106	32.4045296	-103.1914597	8	22S	37E	L	1980S	660W	LEA	NM	CARY	SAN ANDRES	80,540	43,500	755	5,950
C P FALBY A FEDERAL #003	3002510118	32.4081421	-103.1871872	8	22S	37E	F	1980N	1980W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	59,766			
C P FALBY A FEDERAL #004	3002510120	32.4081345	-103.1914673	8	22S	37E	E	1980N	660W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	10,925	5,312	1,620	201
PENROSE #002	3002510146	32.4078712	-103.1739807	9	22S	37E	E	2086N	776W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	64,895	38,010	488	2,100
LOU WORTHAM #020	3002510216	32.411808	-103.1401749	11	22S	37E	D	660N	660W	LEA	NM	EUNICE SOUTH	SAN ANDRES	10,947	6,527	20	236
LOU WORTHAM #005	3002523606	32.4109001	-103.1369629	11	22S	37E	C	990N	1650W	LEA	NM	EUNICE SOUTH	SAN ANDRES	18,587	9,460	13	2,518
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	9,192	4,443	12	1,491
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,868	9,040	24	112
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	13,828	7,298	18	1,389
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,957	8,867	18	406
HUGH COI #013	3002523275	32.3982162	-103.1396637	14	22S	37E	D	330N	820W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,215	6,495	2,529	191
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,824	7,018	2,344	207
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT PADDOCK	SAN ANDRES	65,365	36,905	560	1,460
THEODORE ANDERSON #002	3002506139	32.5785942	-103.2758102	17	20S	37E	C	660N	1980W	Lea	NM		SAN ANDRES		67,245	564	489
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT	SAN ANDRES	65,361	36,900	560	1,460



**Attachment 5**

Water Well Map and Well Data





### Legend

★ Proposed SWD

### OSE PODs

#### Status

- Active (7)
- Pending (1)
- Change Location of Well (0)
- Capped (0)
- Plugged (0)
- Incomplete (0)
- Unknown (2)

## Water Wells Area of Review

### HERNANDEZ SWD #1

LEA COUNTY, NEW MEXICO

Proj Mgr:  
Nate Alleman

May 03, 2023

Mapped by:  
Ben Bockelmann

Prepared for:  


Prepared by:  




Water Well Sampling Rationale					
Goodnight Midstream Permian- Hernandez SWD #1					
Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
CP-00734	W. L. Van Noy	P.O. Box 7 Oil Center, NM 88266	Domestic	No	New Mexico Office of the State Engineer record confirm this well is not an active fresh water well.
CP-00685	DASCO LAND CORPORATION	P.O. BOX 2545 Hobbs, NM, 88241	Oil Production	No	Not a freshwater well
CP-00279	CONTINENTAL OIL COMPANY	P.O. BOX 460 Hobbs, NM, 88241	Industrial	No	Well currently T.A.
CP-01696	Wilberta Tivis - Tivis Ranch LLC	P.O. box 1617 Eunice, nm 88231 575-369-8419 Cell 575-394-3223 Ranch phone	Livestock Watering	Yes	Sampled on 8/26/2021
<b>Note:</b>					



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 14, 2021

OLIVER SEEKINS  
ALL CONSULTING, LLC  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119

RE: WILBERTA TIVIS

Enclosed are the results of analyses for samples received by the laboratory on 08/26/21 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene  
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
---	---	------------------------------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CP - 01696 POD 1	H212303-01	Water	26-Aug-21 14:15	26-Aug-21 15:15

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
---	---	------------------------------

**CP - 01696 POD 1  
H212303-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Alkalinity, Bicarbonate	200		5.00	mg/L	1	1072906	AC	27-Aug-21	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	1072906	AC	27-Aug-21	310.1	
Chloride*	900		4.00	mg/L	1	1081907	GM	30-Aug-21	4500-Cl-B	
Conductivity*	5000		1.00	umhos/cm @ 25°C	1	1082704	AC	27-Aug-21	120.1	
pH*	7.50		0.100	pH Units	1	1082704	AC	27-Aug-21	150.1	
Temperature °C	19.6			pH Units	1	1082704	AC	27-Aug-21	150.1	
Resistivity	2.00			Ohms/m	1	1082704	AC	27-Aug-21	120.1	
Sulfate*	1430		10.0	mg/L	1	1083008	GM	30-Aug-21	375.4	
TDS*	3530		5.00	mg/L	1	1081913	GM	30-Aug-21	160.1	
Alkalinity, Total*	164		4.00	mg/L	1	1072906	AC	27-Aug-21	310.1	
TSS*	2.00		2.00	mg/L	1	1083009	AC	31-Aug-21	160.2	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Barium*	<0.250		0.250	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Calcium*	233		0.500	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Hardness as CaCO3	1090		3.31	mg/L	5	[CALC]	AES	09-Sep-21	2340 B	
Iron*	<0.250		0.250	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Magnesium*	124		0.500	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Potassium*	15.3		5.00	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Sodium*	621		5.00	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Strontium*	6.51		0.500	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**Inorganic Compounds - Quality Control**  
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1072906 - General Prep - Wet Chem**

<b>Blank (1072906-BLK1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

<b>LCS (1072906-BS1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			

<b>LCS Dup (1072906-BSD1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120	0.00	20	
Alkalinity, Total	250	10.0	mg/L	250		100	80-120	0.00	20	

**Batch 1081907 - General Prep - Wet Chem**

<b>Blank (1081907-BLK1)</b>		Prepared & Analyzed: 19-Aug-21								
Chloride	ND	4.00	mg/L							

<b>LCS (1081907-BS1)</b>		Prepared & Analyzed: 19-Aug-21								
Chloride	100	4.00	mg/L	100		100	80-120			

<b>LCS Dup (1081907-BSD1)</b>		Prepared & Analyzed: 19-Aug-21								
Chloride	104	4.00	mg/L	100		104	80-120	3.92	20	

**Batch 1081913 - Filtration**

<b>Blank (1081913-BLK1)</b>		Prepared: 19-Aug-21 Analyzed: 20-Aug-21								
TDS	ND	5.00	mg/L							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1081913 - Filtration**

**LCS (1081913-BS1)** Prepared: 19-Aug-21 Analyzed: 20-Aug-21

TDS	539		mg/L	500		108	80-120			
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**Duplicate (1081913-DUP1)** Source: H212190-02 Prepared: 19-Aug-21 Analyzed: 20-Aug-21

TDS	620	5.00	mg/L		645			3.95	20	
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**Batch 1082704 - General Prep - Wet Chem**

**LCS (1082704-BS1)** Prepared & Analyzed: 27-Aug-21

Conductivity	51400		uS/cm	50000		103	80-120			
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pH	7.05		pH Units	7.00		101	90-110			
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**Duplicate (1082704-DUP1)** Source: H212303-01 Prepared & Analyzed: 27-Aug-21

pH	7.54	0.100	pH Units		7.50			0.532	20	
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Conductivity	5010	1.00	umhos/cm @ 25°C		5000			0.200	20	
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Resistivity	2.00		Ohms/m		2.00			0.200	20	
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Temperature °C	19.6		pH Units		19.6			0.00	200	
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**Batch 1083008 - General Prep - Wet Chem**

**Blank (1083008-BLK1)** Prepared & Analyzed: 30-Aug-21

Sulfate	ND	10.0	mg/L							
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**LCS (1083008-BS1)** Prepared & Analyzed: 30-Aug-21

Sulfate	20.5	10.0	mg/L	20.0		103	80-120			
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**LCS Dup (1083008-BSD1)** Prepared & Analyzed: 30-Aug-21

Sulfate	21.9	10.0	mg/L	20.0		110	80-120	6.59	20	
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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1083009 - Filtration**

**Blank (1083009-BLK1)** Prepared: 30-Aug-21 Analyzed: 31-Aug-21

TSS	ND	2.00	mg/L							
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**Duplicate (1083009-DUP1)** Source: H212303-01 Prepared: 30-Aug-21 Analyzed: 31-Aug-21

TSS	2.00	2.00	mg/L		2.00			0.00	52.7	
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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**Total Recoverable Metals by ICP (E200.7) - Quality Control**

**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B212084 - Total Rec. 200.7/200.8/200.2**

**Blank (B212084-BLK1)**

Prepared: 07-Sep-21 Analyzed: 09-Sep-21

Magnesium	ND	0.100	mg/L							
Barium	ND	0.050	mg/L							
Strontium	ND	0.100	mg/L							
Calcium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
Iron	ND	0.050	mg/L							
Potassium	ND	1.00	mg/L							

**LCS (B212084-BS1)**

Prepared: 07-Sep-21 Analyzed: 09-Sep-21

Strontium	3.93	0.100	mg/L	4.00		98.3	85-115			
Sodium	3.19	1.00	mg/L	3.24		98.3	85-115			
Potassium	7.82	1.00	mg/L	8.00		97.7	85-115			
Magnesium	20.3	0.100	mg/L	20.0		101	85-115			
Iron	3.94	0.050	mg/L	4.00		98.6	85-115			
Calcium	3.97	0.100	mg/L	4.00		99.3	85-115			
Barium	1.96	0.050	mg/L	2.00		98.1	85-115			

**LCS Dup (B212084-BSD1)**

Prepared: 07-Sep-21 Analyzed: 09-Sep-21

Magnesium	20.2	0.100	mg/L	20.0		101	85-115	0.516	20	
Calcium	3.90	0.100	mg/L	4.00		97.6	85-115	1.81	20	
Potassium	7.82	1.00	mg/L	8.00		97.7	85-115	0.0383	20	
Barium	1.93	0.050	mg/L	2.00		96.7	85-115	1.45	20	
Sodium	3.17	1.00	mg/L	3.24		97.9	85-115	0.443	20	
Strontium	3.92	0.100	mg/L	4.00		98.0	85-115	0.321	20	
Iron	3.87	0.050	mg/L	4.00		96.9	85-115	1.74	20	

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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>Lab Services</b> / <i>cel Consult</i> Project Manager: <b>Dustin Armstrong</b>		P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Project #: _____ Project Owner: _____ Project Location: <b>Wilburta Travis</b> City: _____ State: _____ Zip: _____ Sampler Name: _____ Phone #: _____ Fax #: _____	
Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____		BILL TO ANALYSIS REQUEST	
Lab I.D. <b>H213303</b> Sample I.D. <b>CP-01696 Pod 1</b>		(G)RAB OR (C)OMP. _____ # CONTAINERS _____ MATRIX: GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ PRESERV: ACID/BASE: _____ ICE / COOL _____ OTHER: _____ DATE: <b>8-25-24</b> TIME: <b>2:15</b>	
Date: <b>8-26-24</b> Time: <b>3:15</b> Date: _____ Time: _____ Relinquished By: <i>[Signature]</i> Received By: <i>[Signature]</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____ REMARKS: _____	
Delivered By: (Circle One) <b>UPS</b> Observed Temp. °C: <b>5.9</b> Corrected Temp. °C: _____ Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: <b>YO</b>		Turnaround Time: <b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/> Bacteria (only) Sample Condition: Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C: _____ Corrected Temp. °C: _____	

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† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)

**Attachment 6**

Public Notice Affidavit and Notice of Application Confirmations

**APPLICATION FOR AUTHORIZATION TO INJECT**

NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION: Hernandez SWD #1  
Located 6.1 miles northwest of Eunice, NM  
SE ¼ SE ¼, Section 10, Township 21S, Range 36E  
326 FSL & 793' FEL  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: San Andres (4,200'– 5,300')

EXPECTED MAXIMUM INJECTION RATE: 42,000 Bbls/day

EXPECTED MAXIMUM INJECTION PRESSURE: 840 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.

# Affidavit of Publication

STATE OF NEW MEXICO  
COUNTY OF LEA

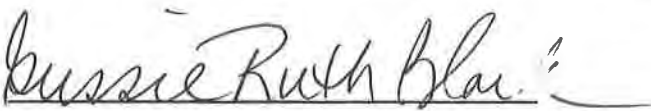
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated  
May 09, 2023  
and ending with the issue dated  
May 09, 2023.



Publisher

Sworn and subscribed to before me this  
9th day of May 2023.



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**

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**LEGAL NOTICE**  
May 9, 2023

**APPLICATION FOR AUTHORIZATION TO INJECT**

NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION: Hernandez SWD #1  
Located 6.1 miles northwest of Eunice, NM  
SE 1/4 SE 1/4, Section 10, Township 21S,  
Range 36E  
326 FSL & 793' FEL  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: San Andres (4,200' - 5,300')  
EXPECTED MAXIMUM INJECTION RATE: 42,000 Bbls/day  
EXPECTED MAXIMUM INJECTION PRESSURE: 840 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.  
**#00278370**

67115320

00278370

DANIEL ARTHUR  
ALL CONSULTING  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119



<b>Hernandez SWD #1 - Notice of Application Recipients</b>				
<b>Entity</b>	<b>Address</b>	<b>City</b>	<b>State</b>	<b>Zip Code</b>
<b>Land &amp; Mineral Owner</b>				
Millard Deck Estate, Terry Richey Trustee Senior Vice President - Sr. Trust Officer Southwest Bank Trust Department	4800 East 42nd Street	Odessa	Texas	79762
<b>OCD District</b>				
NMOCD District 1	1625 N. French Drive	Hobbs	NM	88240
<b>Leasehold Operators</b>				
Apache Corporation (APACHE CORP)	2000 Post Oak Blvd., Suite 150	Houston	TX	77056
Bureau of Land Management	620 E Greene St.	Carlsbad	NM	88220
Chevron USA Inc. (CHEVRON U S A INC)	6301 Deauville Blvd.	Midland	TX	79706
ConocoPhillips Company (CONOCOPHILLPS CO)	960 Plaza Office Bldg	Bartlesville	OK	74004
Empire New Mexico LLC	2200 S. Utice Pl., Suite 150	Tulsa	OK	74114
New Mexico State Land Office	310 Old Sante Fe Trail	Sante Fe	NM	87501
Penroc Oil Corpotation	P.O. Box 2769	Hobbs	NM	88241
XTO Energy Inc.	500 W. Illinois, Suite 100	Midland	TX	79701
ZPZ Delaware I, LLC (ZPZ DELAWARE I LLC)	2000 Post Oak Blvd., Suite 100	Houston	TX	77056
<b>Notes:</b> The table above shows the Entities who were identified as parties of interest requiring notification on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2). The names listed above in parenthesis are the abbreviated entity names used on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2).				

ALL Consulting, LLC  
1718 S Cheyenne Ave  
Tulsa OK 74119

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HOBBS NM 88241-2769



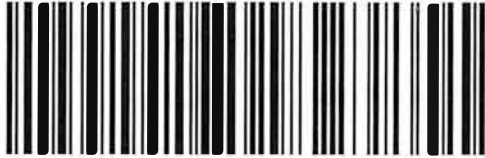
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HOUSTON TX 77056-4497

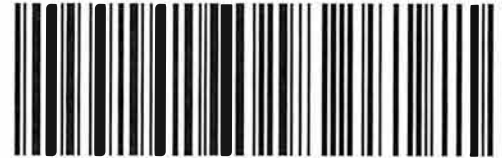
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**VOID**  
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PO BOX 2197  
HOUSTON TX 77251-2197

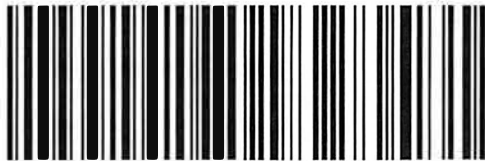
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MIDLAND TX 79701-4337

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New Mexico State Land Office  
310 OLD SANTA FE TRL  
SANTA FE NM 87501-2708

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Tulsa OK 74119

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HOUSTON TX 77252-2197

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Bureau of Land Management  
620 E GREENE ST  
CARLSBAD NM 88220-6292

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1718 S Cheyenne Ave  
Tulsa OK 74119

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NMOCD District 1  
1625 N FRENCH DR  
HOBBS NM 88240-9273

ALL Consulting, LLC  
1718 S Cheyenne Ave  
Tulsa OK 74119

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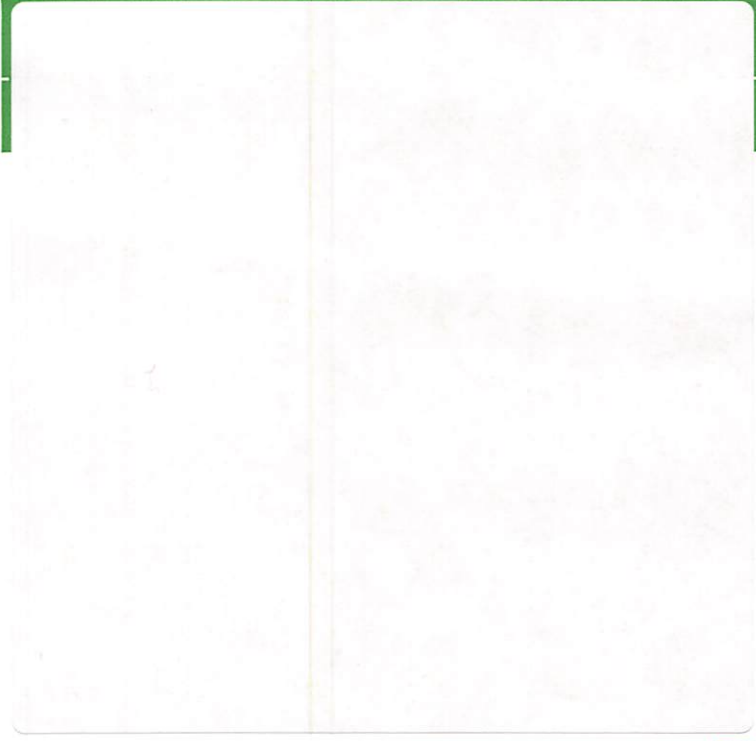
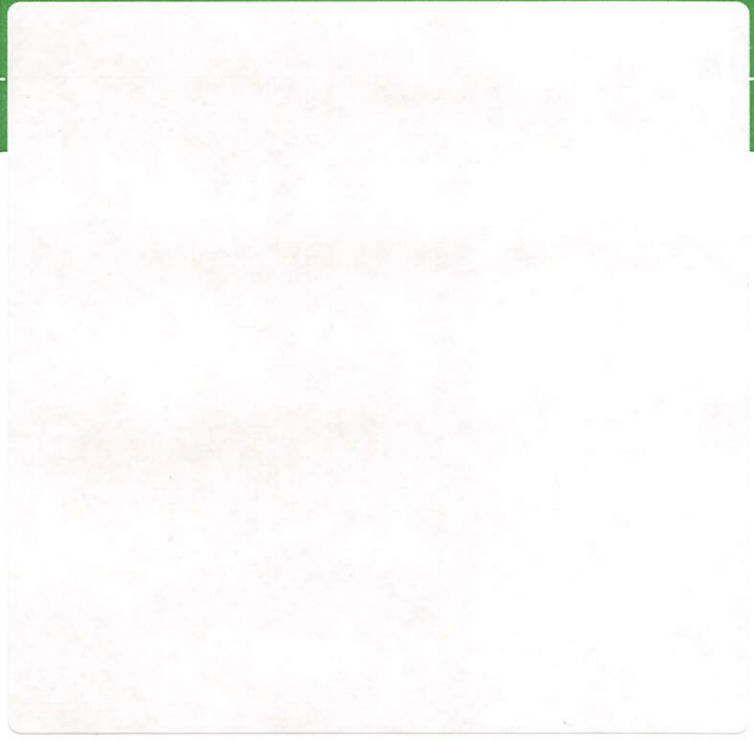
Millard Deck Estate, Terry Richey  
Senior VP - Sr. Trust Officer  
Southwest Bank Trust Department  
4800 E 42ND ST STE 100  
ODESSA TX 79762-7214





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ConocoPhillips Company  
PO BOX 2197  
HOUSTON TX 77252-2197

**Attachment 7**

Signed No Hydrological Connection Statement



Steve Drake  
 V.P. Geology and Reservoir Engineering  
 Goodnight Midstream, LLC  
 5910 North Central Expressway, Suite 850  
 Dallas, Texas 75206

RE: Goodnight Midstream, LLC Hernandez SWD well permit

Lot P, Section 10, Township 21S Range 36E  
 Lea County, New Mexico

Goodnight Midstream conducted a hydrogeologic investigation related to the proposed injection well. The scope of the investigation was to determine if there is any hydrologic connection between the proposed injection interval and any sources of underground drinking water.

Goodnight geologist performed an analysis of subsurface well log data. It is our conclusion that there is no evidence of faulting in the data we evaluated at the depths that are being considered. There are small scale flexures which may or may not be associated with small scale faults. None of these flexures extend above the Wolfcamp unconformity and are not seen in the Leonard intervals.

Goodnight acquired and evaluated 3D seismic to the west but does not cover the lands that this salt water disposal well is located upon. This data shows the geologic setting in the area. No faults are seen in the Artesia Group, San Andres, Glorieta, or Leonard series. The San Andres contains small scale flexures and changes in seismic velocity that may indicate karsting. These flexures and velocity anomalies are being used to target disposal reservoir opportunities. The Grayburg thickens over the San Andres sag. There is also a thickening of the Yates relative to the low in the San Andres. These stratigraphic changes do not indicate the presence of faulting and there is no communication between these intervals.

Water has been disposed into the San Andres in this area since 1966. There is a good record of pressure separation. Production from the Artesia group has proceeded without interruption or encroachment from San Andres disposal for more than 50 years. Containment and isolation from the hydrocarbon intervals would then also be isolated from any sources of fresh water above.

We see no evidence of faulting that would extend to or form a connection between the injection zone and any underground sources of drinking water.

A handwritten signature in blue ink that reads 'Steve Drake'.

Steve Drake  
 V.P. Geology and Reservoir Engineering  
 Goodnight Midstream, LLC

4/6/2023  
 Date





May 12, 2023

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

Subject: Goodnight Midstream Permian, LLC – Hodges SWD # 1  
Application for Authorization to Inject

To Whom It May Concern,

On behalf of Goodnight Midstream Permian, LLC (Goodnight), ALL Consulting, LLC (ALL) is submitting the enclosed Application for Authorization to Inject for the Hodges SWD #1, a proposed salt water disposal well, in Lea County, NM.

Should you have any questions regarding the enclosed application, please contact Nate Alleman at (918) 382-7581 or [nalleman@all-llc.com](mailto:nalleman@all-llc.com).

Sincerely,  
ALL Consulting

Nate Alleman  
Sr. Regulatory Specialist

BEFORE THE OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
Exhibit No. A-6  
Submitted by: Goodnight Midstream Permian, LLC  
Hearing Date: September 23, 2024  
Case Nos. 23614-23617, 23775,  
24018 – 24020, 24025, 24123

---

ALL Consulting  
Phone 918.382.7581

1718 South Cheyenne Ave.  
Fax 918.382.7582

Tulsa, OK 74119  
[www.ALL-LLC.com](http://www.ALL-LLC.com)

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Geological & Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: \_\_\_\_\_ OGRID Number: \_\_\_\_\_  
 Well Name: \_\_\_\_\_ API: \_\_\_\_\_  
 Pool: \_\_\_\_\_ Pool Code: \_\_\_\_\_

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW**

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
- A. Location - Spacing Unit - Simultaneous Dedication  
 NSL       NSP (PROJECT AREA)       NSP (PRORATION UNIT)       SD
- B. Check one only for [ I ] or [ II ]
- [ I ] Commingling - Storage - Measurement  
 DHC    CTB    PLC    PC    OLS    OLM
- [ II ] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
 WFX    PMX    SWD    IPI    EOR    PPR

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.
- A.  Offset operators or lease holders  
 B.  Royalty, overriding royalty owners, revenue owners  
 C.  Application requires published notice  
 D.  Notification and/or concurrent approval by SLO  
 E.  Notification and/or concurrent approval by BLM  
 F.  Surface owner  
 G.  For all of the above, proof of notification or publication is attached, and/or,  
 H.  No notice required

<u>FOR OCD ONLY</u>	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	Application Content Complete

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

**Note: Statement must be completed by an individual with managerial and/or supervisory capacity.**

\_\_\_\_\_  
 Print or Type Name

*Nathan Aleman*  
 \_\_\_\_\_  
 Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Phone Number


\_\_\_\_\_  
e-mail Address

STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL  
RESOURCES DEPARTMENT

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

FORM C-108  
Revised June 10, 2003

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance  X  Disposal  
\_\_\_\_\_ Storage Application qualifies for administrative approval?  X  Yes \_\_\_\_\_ No
- II. OPERATOR:  Goodnight Midstream Permian, LLC   
ADDRESS:  5910 N Central Expressway, Suite 850, Dallas, TX 75206   
CONTACT PARTY:  Grant Adams  PHONE:  214-444-7388(0)
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? \_\_\_\_\_ Yes  X  No  
If yes, give the Division order number authorizing the project: \_\_\_\_\_
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
  1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- \*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.  
NAME:  Nathan Alleman  TITLE:  Sr. Regulatory Specialist   
SIGNATURE:    DATE:  5/12/2023   
E-MAIL ADDRESS:  nalleman@all-llc.com
- XV. If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: \_\_\_\_\_

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

Side 2

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Application for Authorization to Inject  
Well Name: Hodge SWD #1

### III – Well Data *(The Wellbore Diagram is included as Attachment 1)*

A.

#### (1) General Well Information:

Operator: Goodnight Midstream Permian, LLC (OGRID No. 372311)  
Lease Name & Well Number: Hodge SWD #1  
Location Footage Calls: 2,833 FNL & 1,620 FWL  
Legal Location: Unit Letter 11, S4 T21S R36E  
Ground Elevation: 3,558'  
Proposed Injection Interval: 4,100' – 5,200'  
County: Lea

#### (2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	17-1/2"	13-3/8"	54.5 lb./ft	1,250'	1,180	Surface	Circulation
Production	12-1/4"	9-5/8"	40.0 lb./ft	5,200'	1,400	Surface	Circulation
Tubing	N/A	5-1/2"	17.0 lb./ft	4,050'	N/A	N/A	N/A

#### (3) Tubing Information:

5-1/2" (composite weight string) of fiberglass-coated tubing with setting depth of 4,050'

(4) Packer Information: Baker Hornet or equivalent packer set at 4,050'

B.

(1) Injection Formation Name: San Andres

Pool Name: SWD; SAN ANDRES

Pool Code: 96121

(2) Injection Interval: Perforated injection between 4,100' – 5,200'

(3) Drilling Purpose: New Drill for Salt Water Disposal

(4) Other Perforated Intervals: No other perforated intervals exist.

(5) Overlying Oil and Gas Zones: Below are the approximate formation tops for known oil and gas producing zones in the area.

- Grayburg (3,610')

Underlying Oil and Gas Zones: Below is the approximate formation tops for known oil and gas producing zones in the area.

- Glorieta (5,233')
- Tubb (6,810')



## V – Well and Lease Maps

The following maps are included in **Attachment 2**:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List with Penetrating Well Casing and Plugging Information.
- Plugged penetrating wellbore diagrams.
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

## VI – AOR Well List

A list of the wells within the 1/2-mile AOR is included in **Attachment 2**.

There are eleven wells that penetrate the injection zone, three of which has been properly plugged and abandoned, while the other eight wells have been properly cased and cemented to isolate the San Andres. A wellbore diagram and casing information for each of the plugged wells is included in **Attachment 2**.

## VII – Proposed Operation

- (1) **Proposed Maximum Injection Rate:** 42,000 bpd  
**Proposed Average Injection Rate:** 27,500 bpd
- (2) A closed system will be used.
- (3) **Proposed Maximum Injection Pressure:** 820 psi (surface)  
**Proposed Average Injection Pressure:** approximately 500 psi (surface)
- (4) **Source Water Analysis:** It is expected that the injectate will consist of produced water from production wells completed in the Delaware Mountain Group (DMG), Wolfcamp, and Bone Springs formations. Analysis of water from these formations is included in **Attachment 3**.
- (5) **Injection Formation Water Analysis:** The proposed SWD will be injecting water into the San Andres formation which is a non-productive zone known to be compatible with formation water from the DMG, Wolfcamp and Bone Springs formations. Water analyses from the San Andres formation in the area are included in **Attachment 4**.

## VIII – Geologic Description

The proposed injection interval includes the San Andres formation from 4,100 – 5,200 feet. The Permian San Andres formation consists of interbedded carbonates rock including dolomites, siltstones and sands. Several thick intervals of porous and permeable carbonate rock capable of taking water are present within the subject formation in the area.

The deepest underground source of groundwater (USDW) is the Rustler formation at a depth of approximately 1,225 feet. Water well depths in the area range from approximately 9 - 181 feet below ground surface.

### **IX – Proposed Stimulation Program**

A small cleanup acid job may be used to remove mud and drill cuttings from the formation. However, no other formation stimulation is currently planned.

### **X – Logging and Test Data**

Logs will be submitted to the Division upon completion of the well.

### **XI – Fresh Groundwater Samples**

Based on a review of data from the New Mexico Office of the State Engineer, 4 groundwater wells are located within 1 mile of the proposed SWD location. Three of the water wells have been determined to not be fresh water wells, and the owner of water well CP-01889-POD 1 has confirmed that this is not an active water well. Therefore, no water well samples were taken in association with this application.

A water well map and details of water wells within 1-mile are included in **Attachment 5**.

### **XII – No Hydrologic Connection Statement**

No faulting is present in the area that would provide a hydrologic connection between the injection interval and overlying USDWs. Additionally, the casing program has been designed to ensure there will be no hydrologic connection between the injection interval and overlying USDWs.

A signed no hydrological connection statement is included as **Attachment 7**.

### **XIII – Proof of Notice**

A Public Notice was filed with the Hobbs News-Sun newspaper and an affidavit is included in **Attachment 6**.

A copy of the application was mailed to the OCD District Office, landowner, and leasehold operators within 1/2-mile of the proposed SWD location. A list of the recipients, as well as delivery confirmations, are included in **Attachment 6**.

# Attachments

**Attachment 1:** Well Details:

- C-102
- Wellbore Diagram

**Attachment 2:** Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- Wellbore Diagrams - Plugged Penetrating Wells
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

**Attachment 3:** Source Water Analyses

**Attachment 4:** Injection Formation Water Analyses

**Attachment 5:** Water Well Map and Well Data

**Attachment 6:** Public Notice Affidavit and Notice of Application Confirmations

**Attachment 7:** No Hydrological Connection Statement

**Attachment 1**

- C-102
- Wellbore Diagram

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-	Pool Code 96121	Pool Name SWD; SAN ANDRES
Property Code	Property Name HODGES SWD	Well Number 1
OGRID No. 372311	Operator Name GOODNIGHT MIDSTREAM PERMIAN, LLC	Elevation 3558'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
11	04	21 S	36 E		2833'	NORTH	1620'	WEST	LEA

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
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.

The map shows a well location (red circle) in Section 04, Township 20S, Range 37E. The well is 2833' from the north line and 1620' from the west line. The surface location is at NAD 1927 coordinates (N: 552472.72, E: 826796.83, LAT: 32.514390, LONG: -103.273197). Three iron pipe locations are marked with 2" capped iron pipes at various coordinates. The map also shows section numbers 31, 32, 33, 03, 04, 05, 08, 09, 10 and township/range information T20S R.37E.

**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 \_\_\_\_\_

---

**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.*

04/28/2023

Date of Survey

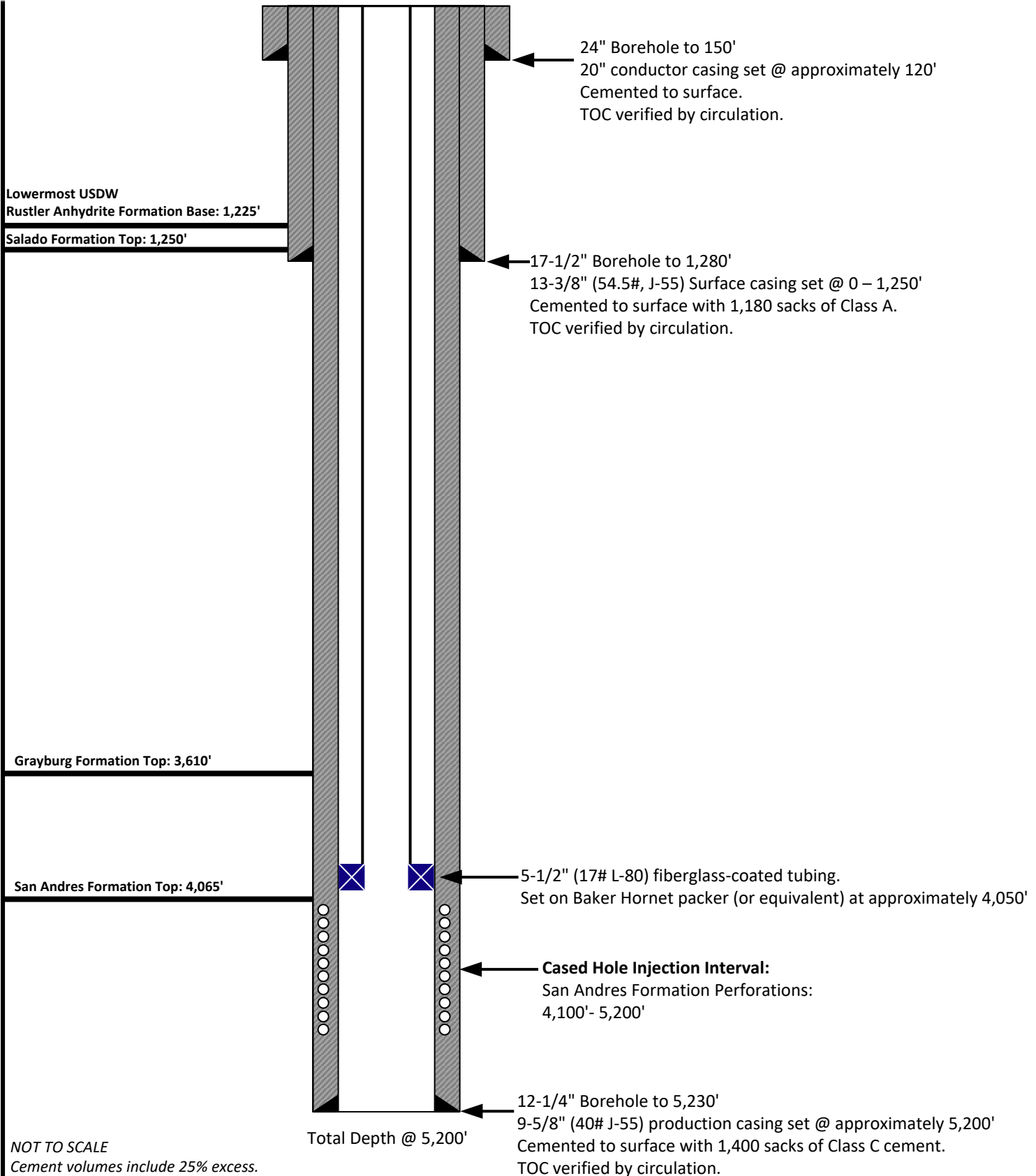
Signature and Seal of Professional Surveyor

Certificate Number

21209

TIM C. PAPPAS





NOT TO SCALE  
Cement volumes include 25% excess.  
Anticipated daily maximum volume: 42,000 bwpd  
Maximum surface Injection Pressure: 840 psig  
(0.2 psi/ft to the top of the injection interval)

Prepared by:  
**ALLCONSULTING**  
Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Drawn by: Joshua Ticknor, P.E.  
Project Manager:  
Nathan Alleman  
Date: 4/11/2023

**Goodnight Midstream Permian, LLC**  
Hodges SWD #1  
2,833' FNL & 1,620 FWL  
Section 4 , Twp 21 S, Rng 36 E  
Lea County, New Mexico

## HORNET Packer

Product Family No. H64682

## HORNET EL Packer

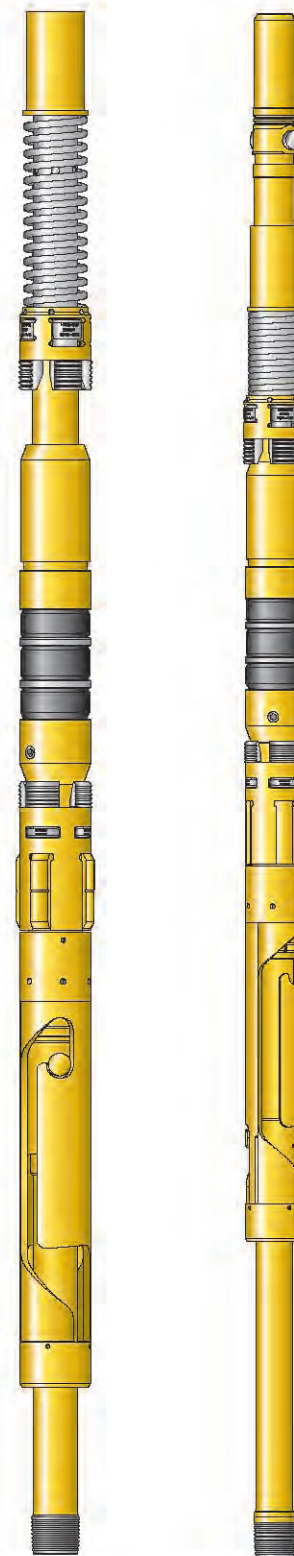
Product Family No. H64683

The mechanically set HORNET™ packer offers ease of operation with quarter-turn right to set and release. Converting it for wireline-setting applications is simple and inexpensive. The HORNET packer provides for landing in compression, tension, or neutral positions. Every component from the jay track, to the internal bypass, to the packing-element system and the upper slip assembly has been developed to ensure the HORNET's setting and releasing reliability.

The HORNET EL packer is run and set on electric line using an E-4™ (Product Family No. H43702) with a slow-set power charge or a J™ setting tool (Product Family No. H41371) and a special wireline adapter kit. An L-10™ type on/off seal nipple is run on top of the packer to connect the tubing to the packer and to house a blanking plug when the packer is used as a temporary bridge plug.

### Features and Benefits

- Upper Slip Assembly:
  - Thoroughly tested across API minimum to maximum casing ID tolerances for each specified casing weight, for setting and releasing reliability
  - Slip-wicker configuration providing bidirectional-load support with solid upper cone to support highest tensile loads
  - Staged-release action eliminates high-overpull requirement
  - Minimal set-down weight required to anchor slips
- Internal Bypass Seal:
  - Durable bypass seal design provides sealing after unloading, under differential pressures
  - No O-ring sealing system
- Packing Element System:
  - Fully tested to combined ratings at the API's maximum ID tolerance
  - Patented enhancements to control overboost
  - High-performance, three-piece element system
- Lower Slip and Jay Assembly:
  - Slips and drag blocks tested to maximum API tolerance ID for positive set and ease of release
  - One-quarter-turn right setting and releasing action
  - Packoff of packing elements with applied tension or compression
  - Spacing in jay ensures opening of internal bypass, before slip releasing action begins—important to both ease of release and safety
  - Automatically returns to running position



HORNET Packer  
Product Family  
No. H64682

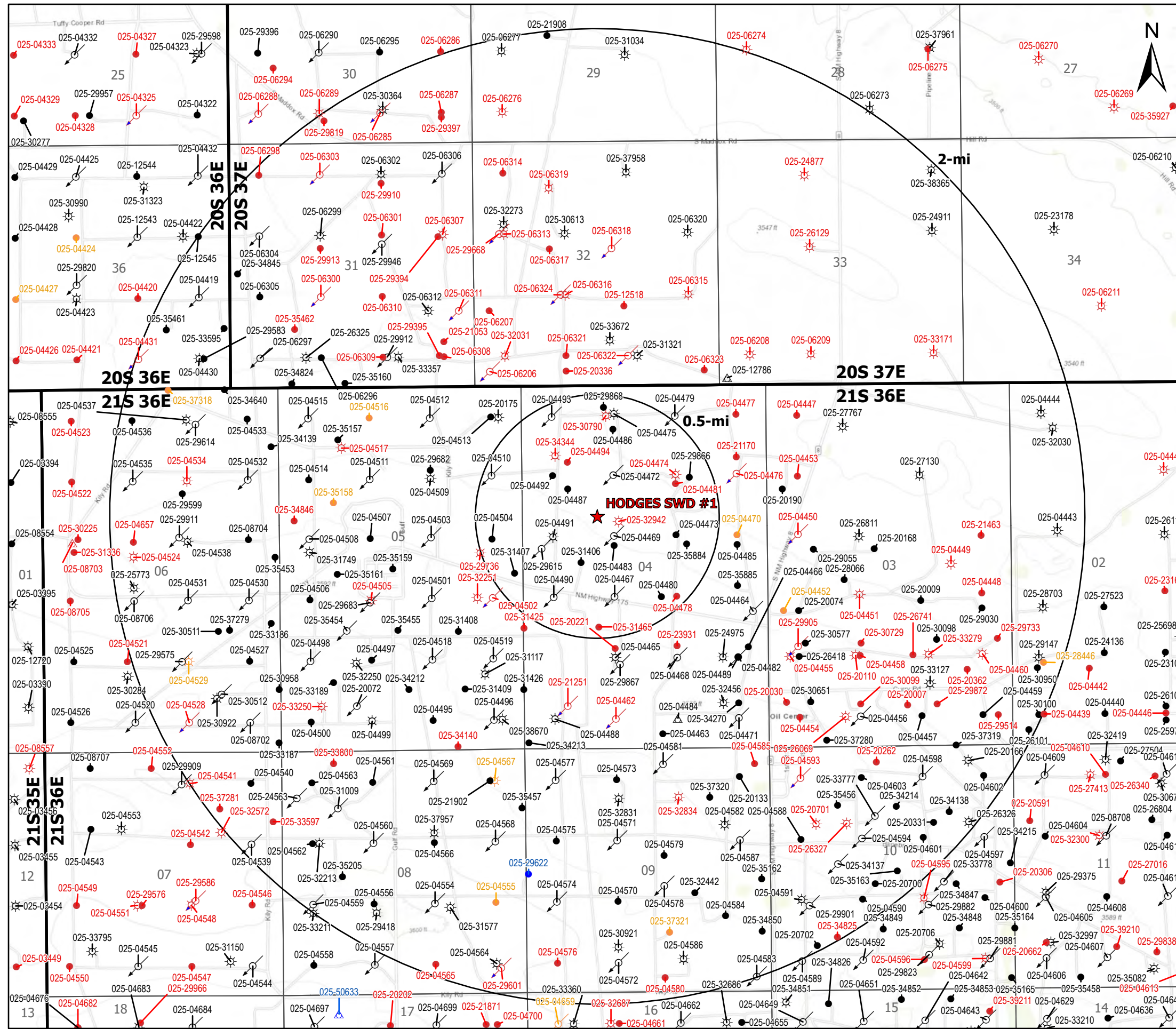
HORNET EL Packer  
Product Family  
No. H64683

## **Attachment 2**

### Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- Wellbore Diagrams - Plugged Penetrating Wells
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map





- ### Legend
- ★ Proposed SWD
  - ☼ Gas, Active (90)
  - ☼ Gas, Plugged (50)
  - ☼ Gas, Temporarily Abandoned (2)
  - ↻ Injection, Active (100)
  - ↻ Injection, Plugged (22)
  - ↻ Injection, Temporarily Abandoned (1)
  - Oil, Active (148)
  - Oil, New (1)
  - Oil, Plugged (102)
  - Oil, Temporarily Abandoned (10)
  - △ Salt Water Injection, Active (2)
  - △ Salt Water Injection, New (1)
  - △ Salt Water Injection, Plugged (1)

Source Info: NMOCD O&G Wells updated 1/17/2023  
 (https://www.emnrd.nm.gov/ocd/ocd-data/ftp-server/)

<b>O&amp;G Wells Area of Review</b>		
<b>HODGES SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM		Prepared by: <b>ALLCONSULTING</b>

## AOR Tabulation for Hodges SWD #1 (Injection Interval: 4,200' - 5,300')

Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth	Penetrate Inj. Zone?
FEDERAL OC COM #001	30-025-30790	Plugged	ARCO PERMIAN	11/11/1990	C-04-21S-36E	(Plugged) 12,435	Yes
BELL RAMSAY NCT A #011	30-025-04494	Plugged	CHEVRON U S A INC	4/4/1962	M-04-21S-36E	(Plugged) 6,055	Yes
H T ORCUTT NCT B COM #014	30-025-34344	Plugged	CHEVRON U S A INC	3/29/1998	E-04-21S-36E	(Plugged) 3,630	No
EUNICE MONUMENT SOUTH UNIT #230	30-025-04478	Plugged	CHEVRON U S A INC	3/8/1936	O-04-21S-36E	(Plugged) 3,852	No
MEYER B 4 #020	30-025-04481	Plugged	CONOCO INC	7/12/1962	G-04-21S-36E	(Plugged) 6,271	Yes
MEYER B 4 #031	30-025-32942	Plugged	CONOCOPHILLIPS COMPANY	6/18/1995	C-04-21S-36E	(Plugged) 3,590	No
MEYER B 4 #014	30-025-04474	Plugged	CONOCOPHILLIPS COMPANY	11/27/1953	B-04-21S-36E	(Plugged) 3,869	No
EUNICE MONUMENT SOUTH UNIT #200H	30-025-04492	Oil	Empire New Mexico LLC	5/3/1936	D-04-21S-36E	3,778	No
EUNICE MONUMENT SOUTH UNIT #183	30-025-04493	Injection	Empire New Mexico LLC	7/19/1936	D-04-21S-36E	3,844	No
EUNICE MONUMENT SOUTH UNIT #609	30-025-31406	Oil	Empire New Mexico LLC	11/26/1991	D-04-21S-36E	3,849	No
EUNICE MONUMENT SOUTH UNIT #201	30-025-04472	Injection	Empire New Mexico LLC	1/1/1900	C-04-21S-36E	3,860	No
EUNICE MONUMENT SOUTH UNIT #229	30-025-04467	Injection	Empire New Mexico LLC	2/23/1936	N-04-21S-36E	3,864	No
EUNICE MONUMENT SOUTH UNIT #210	30-025-04469	Injection	Empire New Mexico LLC	6/1/1936	C-04-21S-36E	3,870	No
EUNICE MONUMENT SOUTH UNIT #209	30-025-04473	Oil	Empire New Mexico LLC	7/19/1936	J-04-21S-36E	3,871	No
EUNICE MONUMENT SOUTH UNIT #212	30-025-04504	Oil	Empire New Mexico LLC	11/19/1935	A-05-21S-36E	3,887	No
EUNICE MONUMENT SOUTH UNIT #610	30-025-31407	Oil	Empire New Mexico LLC	12/5/1991	H-05-21S-36E	3,888	No
BELL RAMSAY NCT A #008	30-025-04491	Gas	Empire New Mexico LLC	4/5/1936	D-04-21S-36E	3,890	No
EUNICE MONUMENT SOUTH UNIT #202	30-025-29866	Oil	Empire New Mexico LLC	12/31/9999	G-04-21S-36E	3,900	No
EUNICE MONUMENT SOUTH UNIT #199	30-025-04510	Injection	Empire New Mexico LLC	3/17/1936	H-05-21S-36E	3,905	No
EUNICE MONUMENT SOUTH UNIT #211	30-025-29615	Injection	Empire New Mexico LLC	12/31/9999	L-04-21S-36E	4,125	No
EUNICE MONUMENT SOUTH UNIT #228	30-025-04490	Injection	Empire New Mexico LLC	12/11/1935	M-04-21S-36E	4,217	Yes
EUNICE MONUMENT SOUTH UNIT #182	30-025-29868	Oil	Empire New Mexico LLC	5/31/1987	C-04-21S-36E	4,300	Yes
EUNICE MONUMENT SOUTH UNIT #458	30-025-29618	Water	Empire New Mexico LLC	12/31/9999	I-04-21S-36E	5,000	Yes
BELL RAMSAY NCT A #012	30-025-04487	Oil	Empire New Mexico LLC	11/20/1962	E-04-21S-36E	6,050	Yes
MEYER B 4 #019	30-025-04480	Oil	PENROC OIL CORP	3/19/1981	O-04-21S-36E	12,010	Yes
MEYER B 4 #015	30-025-04475	Gas	PENROC OIL CORP	1/1/1900	C-04-21S-36E	3,857	No
MEYER B 4 #026	30-025-04486	Oil	PENROC OIL CORP	12/10/1962	C-04-21S-36E	6,040	Yes
MEYER B 4 #022	30-025-04483	Oil	PENROC OIL CORP	10/5/1962	K-04-21S-36E	6,275	Yes
MEYER B 4 #033	30-025-35884	Oil	PENROC OIL CORP	4/17/2002	B-04-21S-36E	8,790	Yes
EUNICE MONUMENT SOUTH UNIT #626	30-025-31465	Plugged	XTO ENERGY, INC	12/31/9999	F-04-21S-36E	(Plugged) 3,870	No

Notes:

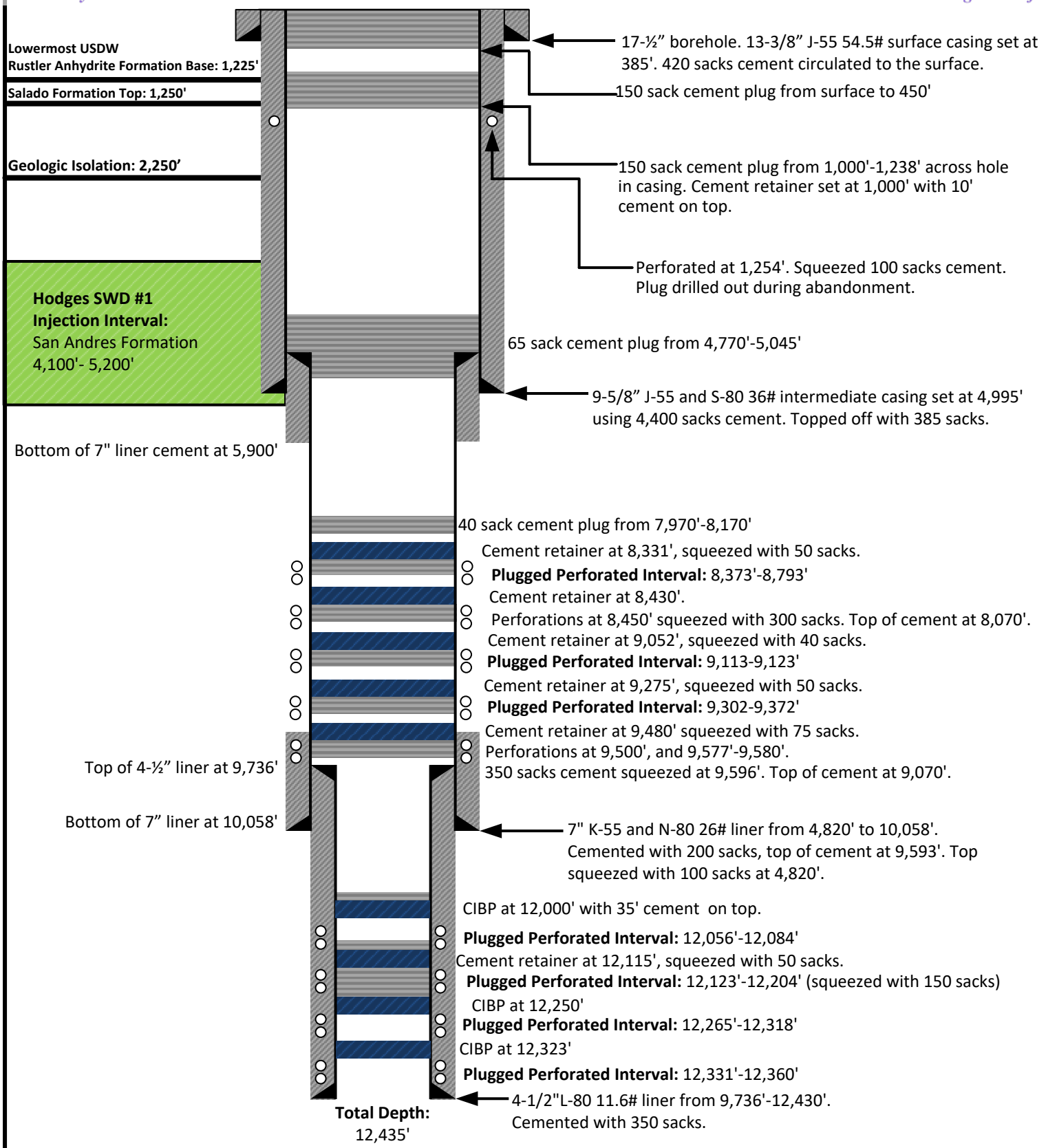


### Casing Information for Wells Penetrating the Hodges SWD #1 Injection Zone

Well Name	Surface Casing						Intermediate Casing					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole size	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
FEDERAL OC COM #001	385'	13.375"	Surface	Circulation	420	17.5"	4995'	9.625"	Surface	Circulation	4400	12.25"
BELL RAMSAY NCT A #011	1288'	8.625"	Surface	Circulation	605	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #020	1330'	8.625"	Surface	Circulation	450	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #228	366'	15"	Surface	Circulation	300	17.5"	1300'	9.625"	Surface	Circulation	450	12.5"
EUNICE MONUMENT SOUTH UNIT #182	1203'	8.625"	Surface	Circulation	800	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #458	332'	16"	Surface	Circulation	600	20"	2546'	11.75"	Surface	Circulation	1050	14.75"
BELL RAMSAY NCT A #012	1255'	8.625"	Surface	Circulation	600	11"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #019	342'	13.375"	Surface	Circulation	300	17.5"	5144'	9.625"	2450'	Temp. Survey	525	12.5"
MEYER B 4 #026	1215'	7.625"	Surface	Circulation	500	11"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #022	1260'	8.625"	Surface	Circulation	600	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #033	1326'	8.625"	Surface	Circulation	50	12.25"	N/A	N/A	N/A	N/A	N/A	N/A

Well Name	Production Casing , Intermediate II Casing, or Liner						Production Casing II & Liner					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
FEDERAL OC COM #001	4820' - 10058'	7"	N/A	N/A	300	N/A	9736' - 12430'	4.5"	N/A	N/A	350	N/A
BELL RAMSAY NCT A #011	6055'	4.5"	unknown	unknown	710	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #020	6271'	5.5"	2400'	Temp. Survey	720	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #228	3741'	7"	Surface	Circulation	500	8.625"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #182	3900'	5.5"	Surface	Circulation	450	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #458	5000'	8.625"	Surface	CBL	1215	10.625"	N/A	N/A	N/A	N/A	N/A	N/A
BELL RAMSAY NCT A #012	6040'	4.5"	3190'	Temp. Survey	400	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #019	6018'	5.5"	4833'	unknown	325	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #026	6040'	4.5"	3800'	Temp. Survey	900	6.75"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #022	6350'	5.5"	2400'	unknown	420	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
MEYER B 4 #033	8790'	5.5"	Surface	Circulation	1001 bbls	7.875"	N/A	N/A	N/A	N/A	N/A	N/A

Well Name	Plugging Information
FEDERAL OC COM #001	Plugs set at 7970' - 8170' w/ 40 sacks, 4770' - 5045' w/ 65 sacks, 1000' - 1238' with 150 sacks, and 0-450' with 150 sacks.
BELL RAMSAY NCT A #011	4.5" CIBP set at 5800' and spot 25 sacks cement on top. Plugs set at 3600' - 3900' w/30 sacks, 2600' - 2800' w/25 sacks, 1100' - 1350' w/25 sacks, & 0-300' w/30 sacks.
MEYER B 4 #020	with 35sx cement cap, 'Plugs at 4157' - 5279 w/100 sacks, 2350' - 2600' w/25 sacks, 1161' - 1261' w/30 sacks pumped below retainer, and 10 sacks placed on top, surface - 350'
EUNICE MONUMENT SOUTH UNIT #228	-
EUNICE MONUMENT SOUTH UNIT #182	-
EUNICE MONUMENT SOUTH UNIT #458	-
BELL RAMSAY NCT A #012	-
MEYER B 4 #019	-
MEYER B 4 #026	-
MEYER B 4 #022	-
MEYER B 4 #033	-



Not to Scale

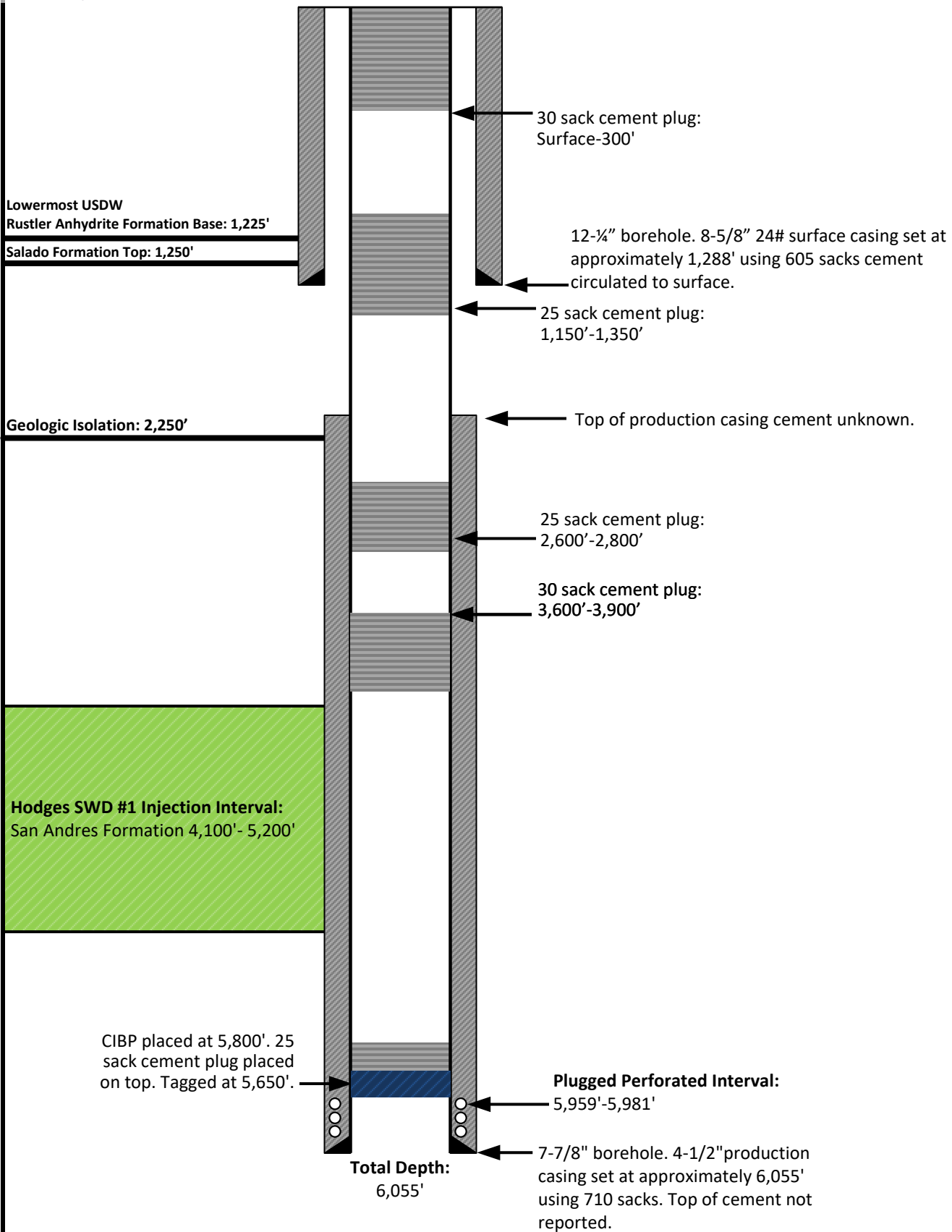
Prepared by:  
  
 Prepared for:

Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 05/05/2023

Federal "OC" Com #1  
 Wellbore Diagram  
 API: 30-025-30790  
 Plugged and Abandoned: 12/10/1992  
 Operated By: ARCO Oil and Gas Company



Not to Scale

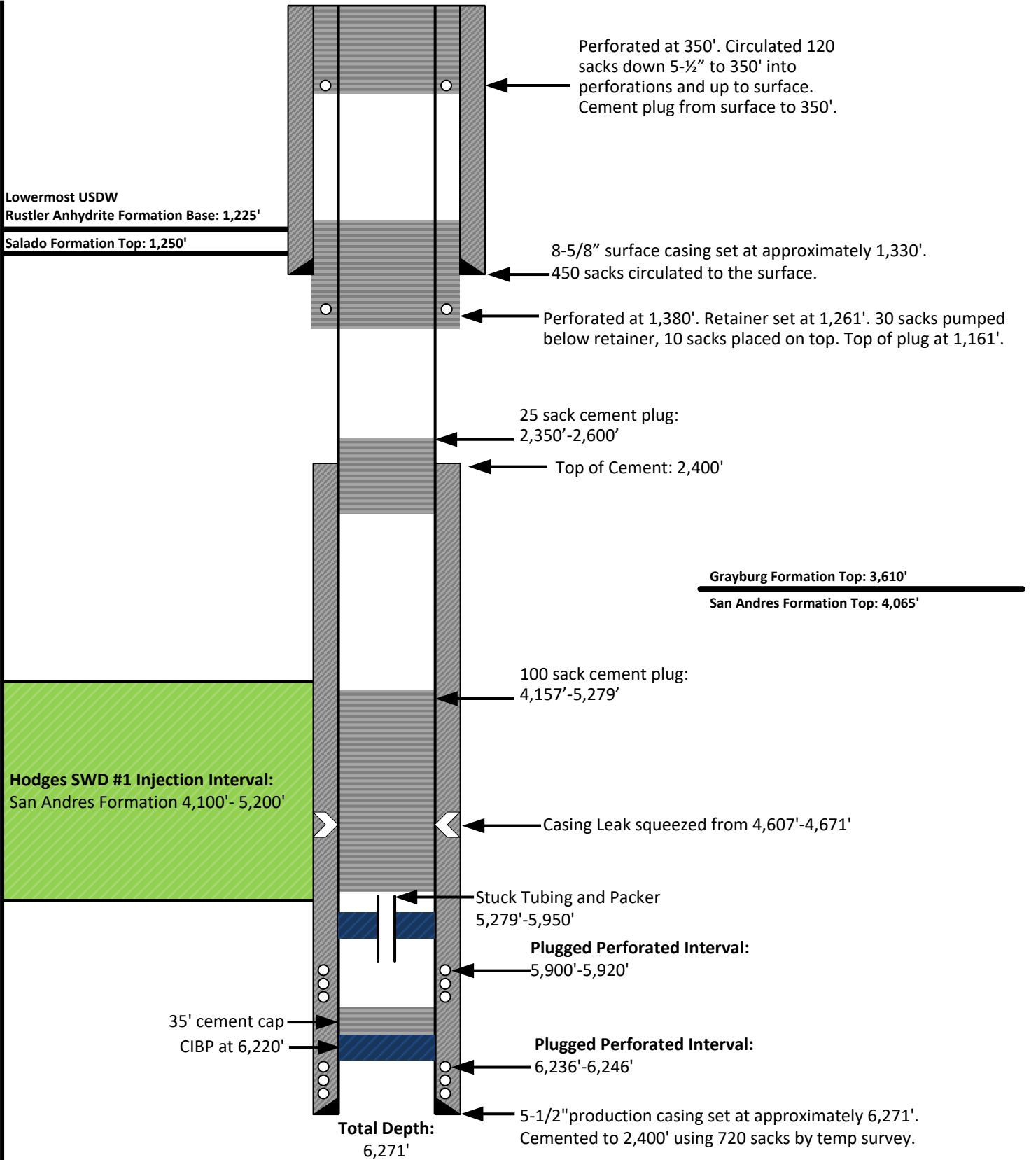
Prepared by:  
  
 Prepared for:  


Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 05/05/2023

Bell Ramsey NCT-A  
 Wellbore Diagram  
 API: 30-025-04494  
 Spud Date: 04/04/1962  
 Plugged and Abandoned: 02/28/2003  
 Operated By: Chevron USA, Inc.



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Prepared by:  
  
 Prepared for:  

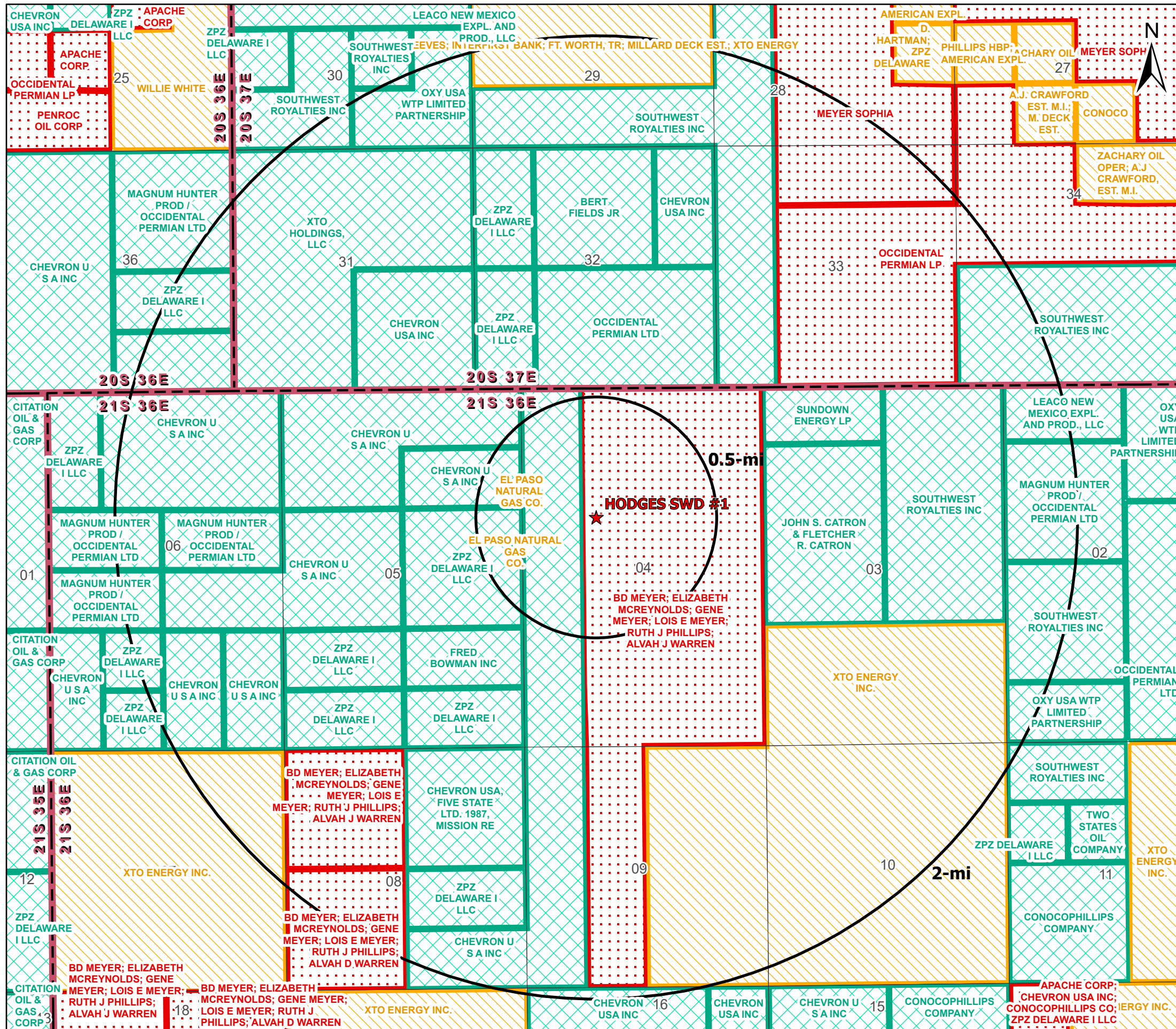

Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 05/05/2023

Meyer B-4  
 Wellbore Diagram  
 API: 30-025-04481  
 Plugged and Abandoned: 09/23/1997  
 Operated By: Conoco, Inc.





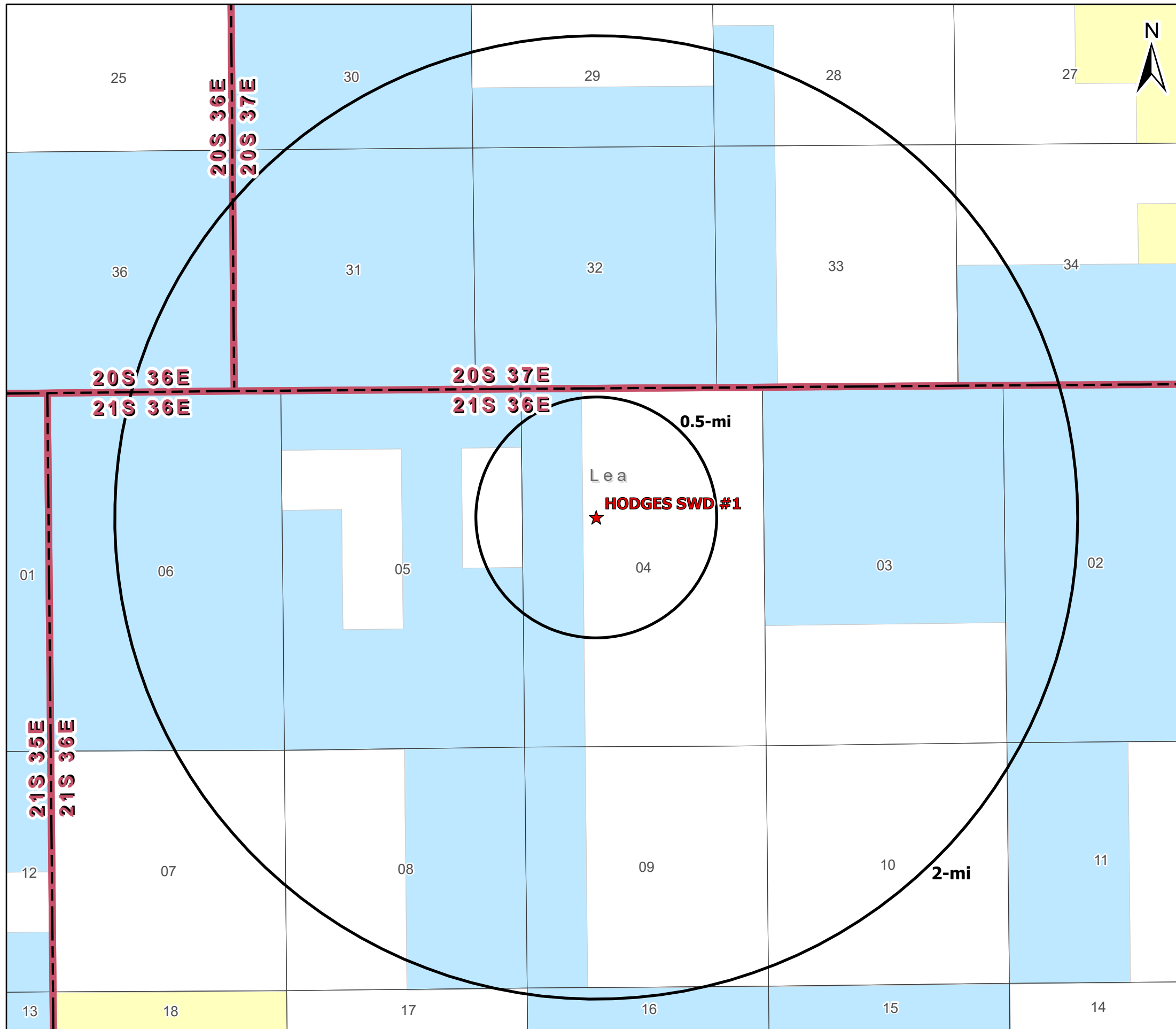
### Legend

- ★ Proposed SWD
- NMSLO Mineral Leases
- BLM Mineral Leases
- Private Mineral Leases

<b>Mineral Lease Area of Review</b>		
<b>HODGES SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: 	Prepared by: 	







### Legend

★ Proposed SWD

### Surface Ownership

- BLM
- Private
- State

## Surface Ownership Area of Review

### HODGES SWD #1 LEA COUNTY, NEW MEXICO

Proj Mgr:  
Nate Alleman

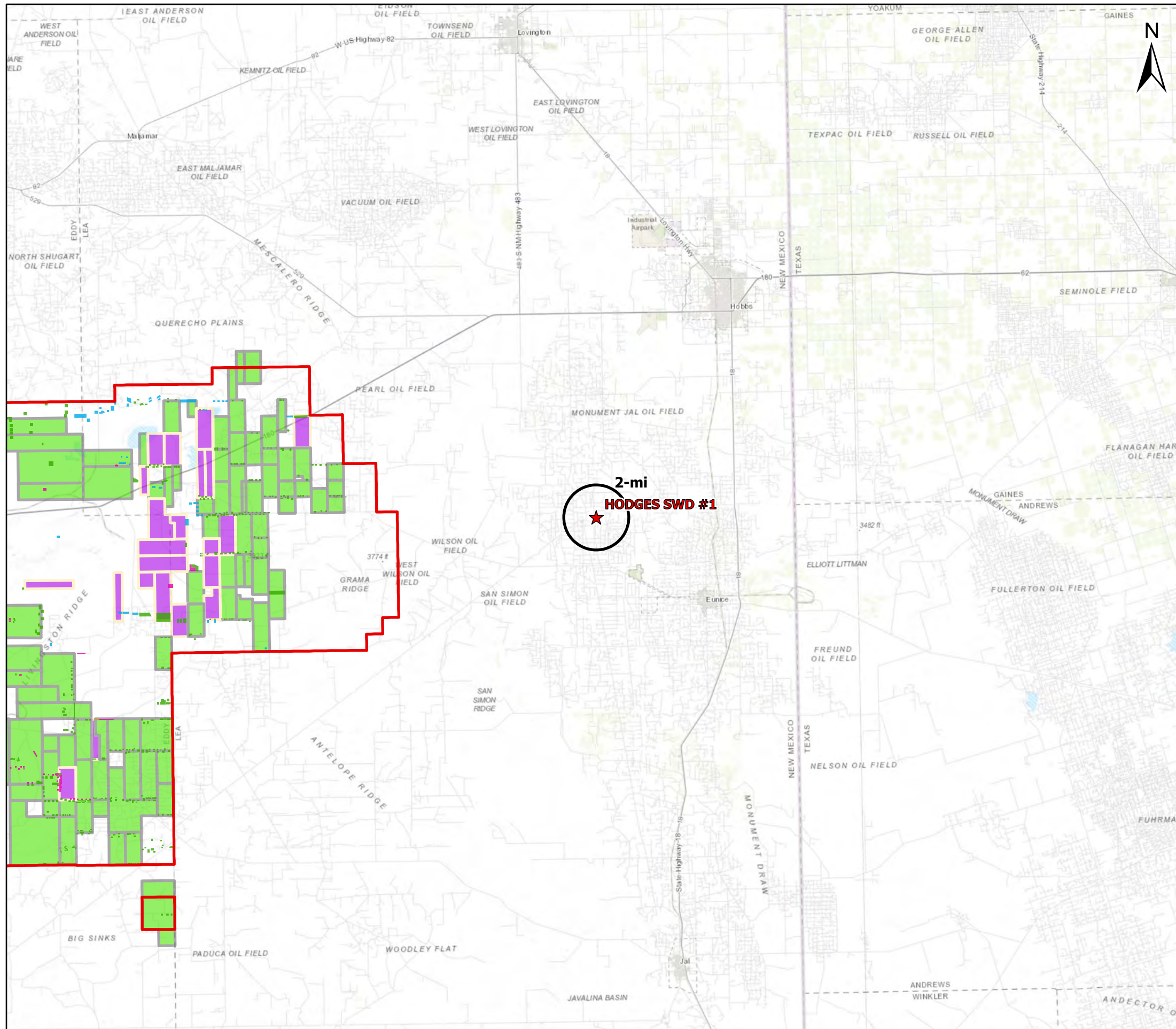
May 03, 2023

Mapped by:  
Ben Bockelmann

Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Prepared by:  
**ALLCONSULTING**





### Legend

- ★ Proposed SWD (1)
- SOPA 1986 (2)
- Drill Islands**
- Status, Depth Buffer**
- Approved, Half Mile (303)
- Approved, Quarter Mile (36)
- Nominated, Half Mile (46)
- Nominated, Quarter Mile (1)
- Development Areas**
- Status**
- Approved (87)
- Pending (24)
- Pending NMOCD Order (0)

<b>Potash Area of Review</b>		
<b>HODGES SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM	Prepared by: <b>ALLCONSULTING</b>	

Service Layer Credits: Topographic: Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, USGS, NGA, EPA, USDA, NPS

**Attachment 3**

Source Water Analyses



Source Water Formation Analysis																	
Goodnight Midstream Permian, LLC - Bone Spring, Wolfcamp & Delaware Formations																	
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND	109,808	66,985	281	1,030
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND	139,905	85,081	293	740
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	184,420	115,274	268	765
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON	266,468	167,562	366	-
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON		224,384	366	210
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON		169,000	37	341
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND		68,000	427	97
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND		77,000	305	1,600
GAUCHO UNIT #014H	3002541571	32.3840523	-103.4984589	20	22S	34E	D	150N	660W	Lea	NM		BONE SPRING 2ND SAND		82,000	220	624
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	158,147	96,378	232	710
MOBIL LEA STATE #001	3002531696	32.5999107	-103.5331573	2	20S	34E	K	1800S	1980W	LEA	NM	LEA NORTHEAST	DELAWARE	152,064	102,148	404	691
MOBIL LEA STATE #003	3002532105	32.5976906	-103.5367584	2	20S	34E	M	990S	870W	LEA	NM	LEA NORTHEAST	DELAWARE	296,822	215,237	143	294
MOBIL LEA STATE #005	3002532466	32.6028633	-103.5367584	2	20S	34E	E	2440N	870W	LEA	NM	LEA NORTHEAST	DELAWARE	340,838	245,270	229	147
LEA UNIT #004H	3002502424	32.5895081	-103.524559	11	20S	34E	H	1980N	660E	LEA	NM	LEA	BONE SPRING	29,436	16,720	634	1,142
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	DELAWARE	214,787	132,700	208	1,816
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	BONE SPRING	15,429			
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	BONE SPRING	180,701	108,300	1,016	670
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	LEA	NM	LEA	BONE SPRING	202,606	118,100	5,196	992
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	LEA	NM	LEA	BONE SPRING	121,800			
LEA UNIT #008	3002502431	32.5927162	-103.511673	12	20S	34E	B	810N	1980E	LEA	NM	LEA	BONE SPRING	147,229	89,640	108	1,038
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND	261,089	160,264	122	425
MONK 21 STATE #004H	3002542193	32.47107672	-103.4727296	21	21S	34E	B	200N	1980E	Lea	NM		BONE SPRING 2ND SAND	184,233	112,775	488	425
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND		103,000	207	439
H L VINSON #001	3002503587	33.5251312	-103.237999	22	09S	36E	A	660N	660E	Lea	NM		WOLFCAMP		66,400	187	690
PHILLIPS STATE #001	3002503659	33.3458824	-103.2939529	22	11S	36E	N	660S	1980W	LEA	NM	CINDY	WOLFCAMP	78,885	47,400	354	875
STATE CA #001	3002503743	32.902153	-103.3229828	23	16S	36E	O	660S	1980E	LEA	NM	LOVINGTON	WOLFCAMP	167,968	102,800	61	623
SINCLAIR STATE #002	3002503123	32.7386246	-103.4561005	21	18S	35E	A	660N	660E	LEA	NM	VACUUM SOUTH	WOLFCAMP	60,950	33,568	1,087	3,049

**Attachment 4**

Injection Formation Water Analyses

Goodnight Midstream Permian, LLC - San Andres Formation																	
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
SIMMONS #001	3002510070	32.4232674	-103.1821976	5	22S	37E	G	1760N	1760E	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	78,653	46,510	580	2,184
C P FALBY B FEDERAL #004	3002510106	32.4045296	-103.1914597	8	22S	37E	L	1980S	660W	LEA	NM	CARY	SAN ANDRES	80,540	43,500	755	5,950
C P FALBY A FEDERAL #003	3002510118	32.4081421	-103.1871872	8	22S	37E	F	1980N	1980W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	59,766			
C P FALBY A FEDERAL #004	3002510120	32.4081345	-103.1914673	8	22S	37E	E	1980N	660W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	10,925	5,312	1,620	201
PENROSE #002	3002510146	32.4078712	-103.1739807	9	22S	37E	E	2086N	776W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	64,895	38,010	488	2,100
LOU WORTHAM #020	3002510216	32.411808	-103.1401749	11	22S	37E	D	660N	660W	LEA	NM	EUNICE SOUTH	SAN ANDRES	10,947	6,527	20	236
LOU WORTHAM #005	3002523606	32.4109001	-103.1369629	11	22S	37E	C	990N	1650W	LEA	NM	EUNICE SOUTH	SAN ANDRES	18,587	9,460	13	2,518
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	9,192	4,443	12	1,491
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,868	9,040	24	112
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	13,828	7,298	18	1,389
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,957	8,867	18	406
HUGH COI #013	3002523275	32.3982162	-103.1396637	14	22S	37E	D	330N	820W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,215	6,495	2,529	191
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,824	7,018	2,344	207
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT PADDOCK	SAN ANDRES	65,365	36,905	560	1,460
THEODORE ANDERSON #002	3002506139	32.5785942	-103.2758102	17	20S	37E	C	660N	1980W	Lea	NM		SAN ANDRES		67,245	564	489
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT	SAN ANDRES	65,361	36,900	560	1,460

**Attachment 5**

Water Well Map and Well Data





### Legend

★ Proposed SWD

### OSE PODs

#### Status

- Active (6)
- Pending (7)
- Change Location of Well (0)
- Capped (0)
- Plugged (0)
- Incomplete (0)
- Unknown (1)

## Water Wells Area of Review

### HODGES SWD #1 LEA COUNTY, NEW MEXICO

Proj Mgr:  
Nate Alleman

May 03, 2023

Mapped by:  
Ben Bockelmann

Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Prepared by:  
**ALLCONSULTING**



Water Well Sampling Rationale					
Goodnight Midstream Permian- Hodges SWD #1					
Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
CP-00670-POD1	GULF OIL CORPORATION	P.O. BOX 670 Hobbs, NM, 88240	Secondary Recovery of Oil	No	Not a freshwater well
CP-00694-POD1	CHEVRON USA INC	P.O. BOX 670 Hobbs, NM, 88240	Secondary Recovery of Oil	No	Not a freshwater well
CP-00697-POD1	CHEVRON USA INC	P.O. BOX 670 Hobbs, NM, 88240	Secondary Recovery of Oil	No	Not a freshwater well
CP-01889-POD1	Mathew LUNA	P.O. Box 3032 Eunice, NM, 88231 Cell: 575-942-8473	Domestic	No	Communication with the water well owner confirmed that this well is not currently an active fresh water well. Sampling is not available.

**Note:** No active freshwater wells are located within 1-mile of the proposed Hodges SWD #1.

**Attachment 6**

Public Notice Affidavit and Notice of Application Confirmations

**APPLICATION FOR AUTHORIZATION TO INJECT**

NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION: Hodges SWD #1  
Located 8.5 miles northwest of Eunice, NM  
LOT 11, Section 4, Township 21S, Range 36E  
2,833 FNL & 1,620' FWL  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: San Andres (4,100'– 5,200')

EXPECTED MAXIMUM INJECTION RATE: 42,000 Bbls/day

EXPECTED MAXIMUM INJECTION PRESSURE: 820 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.



<b>Hodges SWD #1 - Notice of Application Recipients</b>				
<b>Entity</b>	<b>Address</b>	<b>City</b>	<b>State</b>	<b>Zip Code</b>
<b>Land &amp; Mineral Owner</b>				
Millard Deck Estate, Terry Richey Trustee Senior Vice President - Sr. Trust Officer Southwest Bank Trust Department	4800 East 42nd Street	Odessa	Texas	79762
<b>OCD District</b>				
NMOCD District 1	1625 N. French Drive	Hobbs	NM	88240
<b>Leasehold Operators</b>				
New Mexico State Land Office	310 Old Sante Fe Trail	Sante Fe	NM	87501
Penroc Oil Corportation (PENROC OIL CORP)	P.O. Box 2769	Hobbs	NM	88241
ZPZ Delaware I, LLC (ZPZ DELAWARE I LLC)	2000 Post Oak Blvd., Suite 100	Houston	TX	77056
Empire New Mexico LLC	2200 S. Utice Pl., Suite 150	Tulsa	OK	74114
Chevron USA Inc. (CHEVRON U S A INC)	6301 Deauville Blvd.	Midland	TX	79706
New Mexico BLM	620 E Greene St.	Carlsbad	NM	88220
El Paso Natural Gas Company, LLC (EL PASO NATURAL GAS CO.)	1001 Louisiana Street, Suite 1000	Houston	TX	77002
BD Meyer	P.O. Box 428	Panhandle	TX	79068
Elizabeth McReynolds	P.O. Box 428	Panhandle	TX	79068
Lois E Meyer	P.O. Box 428	Panhandle	TX	79068
Gene Meyer	P.O. Box 428	Panhandle	TX	79068
Ruth J Phillips	P.O. Box 428	Panhandle	TX	79068
Alvah J Warren	P.O. Box 428	Panhandle	TX	79068
<b>Notes:</b> The table above shows the Entities who were identified as parties of interest requiring notification on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2). The names listed above in parenthesis, are the abbreviated entity names used on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2).				



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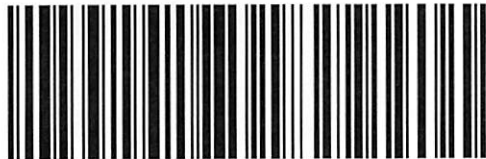
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El Paso Natural Gas Company, LLC  
1001 LOUISIANA STREET SUITE 1000  
HOUSTON TX 77002-0000

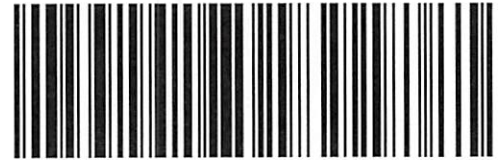
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2200 S UTICA PL STE 150  
TULSA OK 74114-7015

NMOCD District 1  
1625 N FRENCH DR  
HOBBS NM 88240-9273

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Southwest Bank Trust Department  
Millard Deck Estate, Terry Richey  
Senior VP - Sr. Trust Officer  
4800 E 42ND ST STE 100  
ODESSA TX 79762-7214

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**Attachment 7**

Signed No Hydrological Connection Statement





Steve Drake  
 V.P. Geology and Reservoir Engineering  
 Goodnight Midstream, LLC  
 5910 North Central Expressway, Suite 850  
 Dallas, Texas 75206

RE: Goodnight Midstream, LLC Hodges SWD well permit

Lot 11, Section 4, Township 21S Range 36E  
 Lea County, New Mexico

Goodnight Midstream conducted a hydrogeologic investigation related to the proposed injection well. The scope of the investigation was to determine if there is any hydrologic connection between the proposed injection interval and any sources of underground drinking water.

Goodnight geologist performed an analysis of subsurface well log data. It is our conclusion that there is no evidence of faulting in the data we evaluated at the depths that are being considered. There are small scale flexures which may or may not be associated with small scale faults. None of these flexures extend above the Wolfcamp unconformity and are not seen in the Leonard intervals.

Goodnight acquired and evaluated 3D seismic covering the lands that this salt water disposal well is located upon. This data shows the geologic setting in the area. No faults are seen in the Artesia Group, San Andres, Glorieta, or Leonard series. The San Andres contains small scale flexures and changes in seismic velocity that may indicate karsting. These flexures and velocity anomalies are being used to target disposal reservoir opportunities. The Grayburg thickens over the San Andres sag. There is also a thickening of the Yates relative to the low in the San Andres. These stratigraphic changes do not indicate the presence of faulting and there is no communication between these intervals.

Water has been disposed into the San Andres in this area since 1966. There is a good record of pressure separation. Production from the Artesia group has proceeded without interruption or encroachment from San Andres disposal for more than 50 years. Containment and isolation from the hydrocarbon intervals would then also be isolated from any sources of fresh water above.

We see no evidence of faulting that would extend to or form a connection between the injection zone and any underground sources of drinking water.

Steve Drake  
 V.P. Geology and Reservoir Engineering  
 Goodnight Midstream, LLC

4/6/2023  
 Date



May 12, 2023

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

Subject: Goodnight Midstream Permian, LLC – Seaver SWD # 1  
Application for Authorization to Inject

To Whom It May Concern,

On behalf of Goodnight Midstream Permian, LLC (Goodnight), ALL Consulting, LLC (ALL) is submitting the enclosed Application for Authorization to Inject for the Seaver SWD #1, a proposed salt water disposal well, in Lea County, NM.

Should you have any questions regarding the enclosed application, please contact Nate Alleman at (918) 382-7581 or [nalleman@all-llc.com](mailto:nalleman@all-llc.com).

Sincerely,  
ALL Consulting

Nate Alleman  
Sr. Regulatory Specialist

BEFORE THE OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
Exhibit No. A-7  
Submitted by: Goodnight Midstream Permian, LLC  
Hearing Date: September 23, 2024  
Case Nos. 23614-23617, 23775,  
24018 – 24020, 24025, 24123

---

ALL Consulting  
Phone 918.382.7581

1718 South Cheyenne Ave.  
Fax 918.382.7582

Tulsa, OK 74119  
[www.ALL-LLC.com](http://www.ALL-LLC.com)

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Geological & Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: \_\_\_\_\_ OGRID Number: \_\_\_\_\_  
 Well Name: \_\_\_\_\_ API: \_\_\_\_\_  
 Pool: \_\_\_\_\_ Pool Code: \_\_\_\_\_

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW**

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]  
 A. Location - Spacing Unit - Simultaneous Dedication  
 NSL       NSP (PROJECT AREA)       NSP (PRORATION UNIT)       SD
- B. Check one only for [ I ] or [ II ]  
 [ I ] Commingling - Storage - Measurement  
 DHC    CTB    PLC    PC    OLS    OLM  
 [ II ] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
 WFX    PMX    SWD    IPI    EOR    PPR

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.  
 A.  Offset operators or lease holders  
 B.  Royalty, overriding royalty owners, revenue owners  
 C.  Application requires published notice  
 D.  Notification and/or concurrent approval by SLO  
 E.  Notification and/or concurrent approval by BLM  
 F.  Surface owner  
 G.  For all of the above, proof of notification or publication is attached, and/or,  
 H.  No notice required

<u>FOR OCD ONLY</u>	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	Application Content Complete

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

\_\_\_\_\_

Print or Type Name

*Nathan Alleman*

Signature

\_\_\_\_\_

Date

\_\_\_\_\_

Phone Number

\_\_\_\_\_


e-mail Address

STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL  
RESOURCES DEPARTMENT

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

FORM C-108  
Revised June 10, 2003

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance  Disposal  
\_\_\_\_\_ Storage Application qualifies for administrative approval?  Yes \_\_\_\_\_ No
- II. OPERATOR: Goodnight Midstream Permian, LLC  
ADDRESS: 5910 N Central Expressway, Suite 850, Dallas, TX 75206  
CONTACT PARTY: Grant Adams PHONE: 214-444-7388(0)
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? \_\_\_\_\_ Yes  No  
If yes, give the Division order number authorizing the project: \_\_\_\_\_
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
  1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- \*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.  
NAME: Nathan Alleman TITLE: Sr. Regulatory Specialist  
SIGNATURE:  DATE: 5/12/2023  
E-MAIL ADDRESS: nalleman@all-llc.com
- XV. If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: \_\_\_\_\_

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

Side 2

### III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

### XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.



Application for Authorization to Inject  
Well Name: Seaver SWD #1

### III – Well Data *(The Wellbore Diagram is included as Attachment 1)*

A.

#### (1) General Well Information:

Operator: Goodnight Midstream Permian, LLC (OGRID No. 372311)  
Lease Name & Well Number: Seaver SWD #1  
Location Footage Calls: 1,809 FSL & 1,428 FWL  
Legal Location: Unit Letter K, S10 T21S R36E  
Ground Elevation: 3,575'  
Proposed Injection Interval: 4,200' – 5,300'  
County: Lea

#### (2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	17-1/2"	13-3/8"	54.5 lb./ft	1,380'	1,180	Surface	Circulation
Production	12-1/4"	9-5/8"	40.0 lb./ft	5,300'	1,400	Surface	Circulation
Tubing	N/A	5-1/2"	17.0 lb./ft	4,150'	N/A	N/A	N/A

#### (3) Tubing Information:

5-1/2" (composite weight string) of fiberglass-coated tubing with setting depth of 4,150'

(4) Packer Information: Baker Hornet or equivalent packer set at 4,150'

B.

(1) Injection Formation Name: San Andres

Pool Name: SWD; SAN ANDRES

Pool Code: 96121

(2) Injection Interval: Perforated injection between 4,200' – 5,300'

(3) Drilling Purpose: New Drill for Salt Water Disposal

(4) Other Perforated Intervals: No other perforated intervals exist.

(5) Overlying Oil and Gas Zones: Below are the approximate formation tops for known oil and gas producing zones in the area.

- Grayburg (3,707')

Underlying Oil and Gas Zones: Below is the approximate formation tops for known oil and gas producing zones in the area.

- Glorieta (5,303')
- Tubb (6,810')

## V – Well and Lease Maps

The following maps are included in **Attachment 2**:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List with Penetrating Well Casing and Plugging Information.
- Plugged Penetrating Wellbore Diagrams.
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

## VI – AOR Well List

A list of the wells within the 1/2-mile AOR is included in **Attachment 2**.

There are six wells that penetrate the injection zone, one of which has been properly plugged and abandoned, while the other five wells have been properly cased and cemented to isolate the San Andres. A wellbore diagram and casing information for each of the plugged wells is included in **Attachment 2**

## VII – Proposed Operation

- (1) **Proposed Maximum Injection Rate:** 42,000 bpd  
**Proposed Average Injection Rate:** 27,500 bpd
- (2) A closed system will be used.
- (3) **Proposed Maximum Injection Pressure:** 840 psi (surface)  
**Proposed Average Injection Pressure:** approximately 537 psi (surface)
- (4) **Source Water Analysis:** It is expected that the injectate will consist of produced water from production wells completed in the Delaware Mountain Group (DMG), Wolfcamp, and Bone Springs formations. Analysis of water from these formations is included in **Attachment 3**.
- (5) **Injection Formation Water Analysis:** The proposed SWD will be injecting water into the San Andres formation which is a non-productive zone known to be compatible with formation water from the DMG, Wolfcamp and Bone Springs formations. Water analyses from the San Andres formation in the area are included in **Attachment 4**.

## VIII – Geologic Description

The proposed injection interval includes the San Andres formation from 4,200 – 5,300 feet. The Permian San Andres formation consists of interbedded carbonates rock including dolomites, siltstones and sands. Several thick intervals of porous and permeable carbonate rock capable of taking water are present within the subject formation in the area.

The deepest underground source of groundwater (USDW) is the Rustler formation at a depth of approximately 1,355 feet. Water well depths in the area range from approximately 81 – 242 feet below ground surface.

### **IX – Proposed Stimulation Program**

A small cleanup acid job may be used to remove mud and drill cuttings from the formation. However, no other formation stimulation is currently planned.

### **X – Logging and Test Data**

Logs will be submitted to the Division upon completion of the well.

### **XI – Fresh Groundwater Samples**

Based on a review of data from the New Mexico Office of the State Engineer, 9 groundwater wells are located within 1 mile of the proposed SWD location. As such two of the groundwater wells located within one mile have been sampled (CP-01696 POD 1 on 8/26/2021 and CP-01039 POD 1 on 9/9/2021).

A water well map, details of water wells within 1-mile, and water sampling results are included in **Attachment 5**.

### **XII – No Hydrologic Connection Statement**

No faulting is present in the area that would provide a hydrologic connection between the injection interval and overlying USDWs. Additionally, the casing program has been designed to ensure there will be no hydrologic connection between the injection interval and overlying USDWs.

A signed no hydrological connection statement is included as **Attachment 7**.

### **XIII – Proof of Notice**

A Public Notice was filed with the Hobbs News-Sun newspaper and an affidavit is included in **Attachment 6**.

A copy of the application was mailed to the OCD District Office, landowner, and leasehold operators within 1/2-mile of the proposed SWD location. A list of the recipients, as well as delivery confirmations, are included in **Attachment 6**.

# Attachments

**Attachment 1:** Well Details:

- C-102
- Wellbore Diagram

**Attachment 2:** Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- Wellbore Diagrams - Plugged penetrating wells
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

**Attachment 3:** Source Water Analyses

**Attachment 4:** Injection Formation Water Analyses

**Attachment 5:** Water Well Map and Well Data

**Attachment 6:** Public Notice Affidavit and Notice of Application Confirmations

**Attachment 7:** No Hydrological Connection Statement

**Attachment 1**

- C-102
- Wellbore Diagram



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

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-	Pool Code 96121	Pool Name SWD; SAN ANDRES
Property Code	Property Name SEAVER SWD	Well Number 1
OGRID No. 372311	Operator Name GOODNIGHT MIDSTREAM PERMIAN, LLC	Elevation 3575'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	10	21 S	36 E		1809'	SOUTH	1428'	WEST	LEA

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
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.*

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

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

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

---

**SURVEYOR CERTIFICATION**

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

04/28/2023

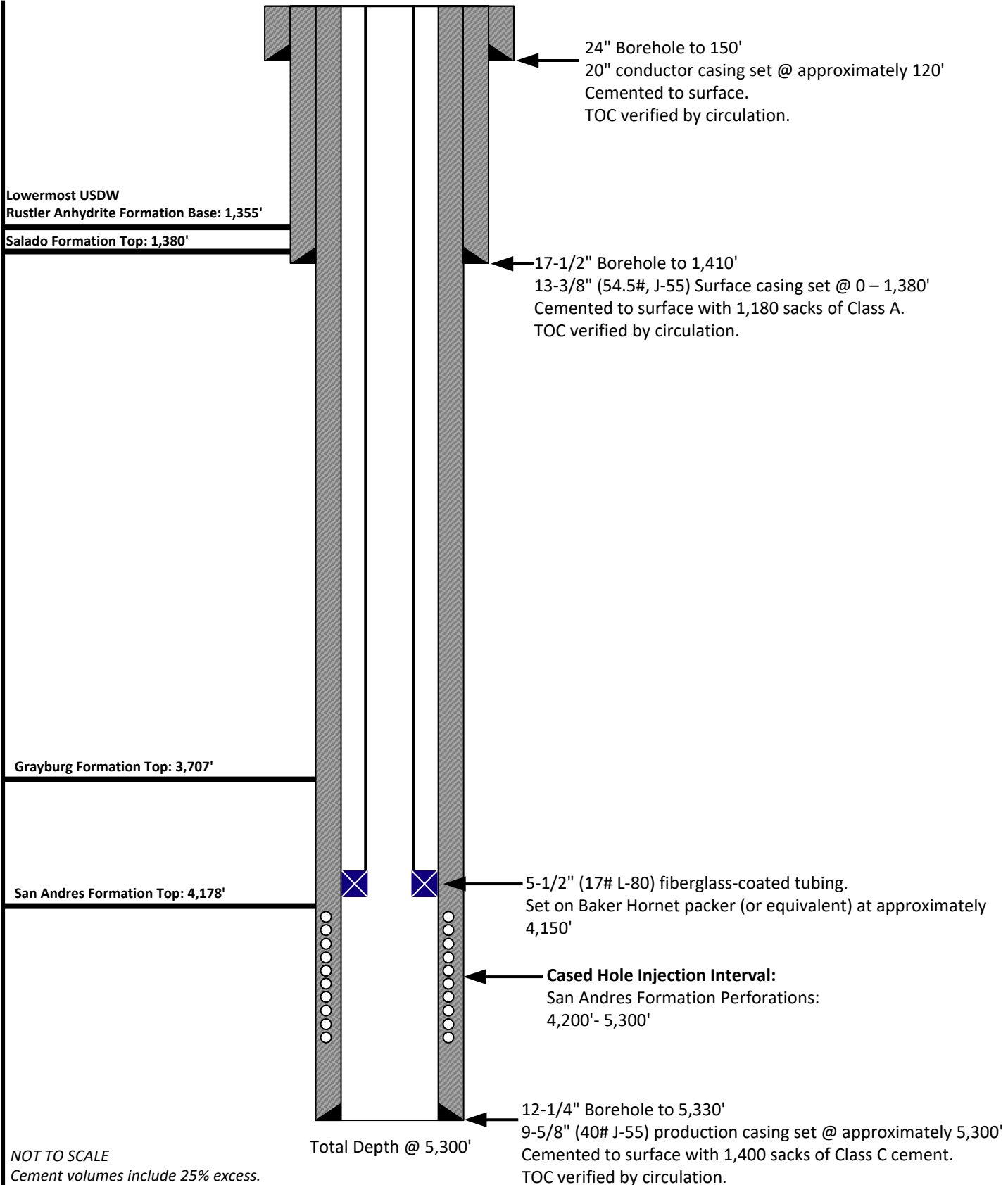
Date of Survey

Signature and Seal of Professional Surveyor



Certificate Number

21209

TIM C. PAPPAS



NOT TO SCALE  
 Cement volumes include 25% excess.  
 Anticipated daily maximum volume: 42,000 bwpd  
 Maximum surface Injection Pressure: 840 psig  
 (0.2 psi/ft to the top of the injection interval)

<p>Prepared by:</p>  <p>Prepared for:</p> 	<p>Drawn by: Joshua Ticknor, P.E.</p>	<p><b>Goodnight Midstream Permian, LLC</b>                  Proposed Wellbore Diagram                  Seaver SWD #1                  1,809' FSL &amp; 1,428' FWL                  Section 10 , Twp 21 S, Rng 36 E                  Lea County, New Mexico</p>
	<p>Project Manager:                  Nathan Alleman</p>	
	<p>Date: 4/11/2023</p>	

## HORNET Packer

Product Family No. H64682

## HORNET EL Packer

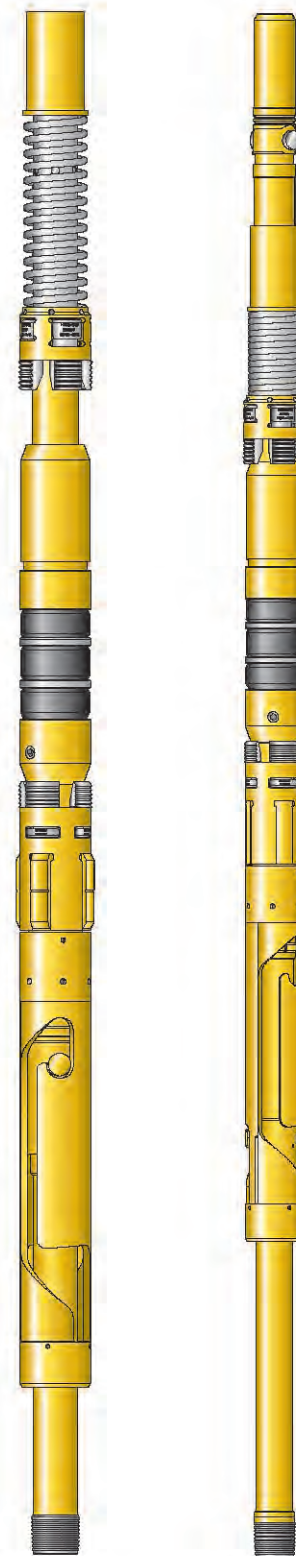
Product Family No. H64683

The mechanically set HORNET™ packer offers ease of operation with quarter-turn right to set and release. Converting it for wireline-setting applications is simple and inexpensive. The HORNET packer provides for landing in compression, tension, or neutral positions. Every component from the jay track, to the internal bypass, to the packing-element system and the upper slip assembly has been developed to ensure the HORNET's setting and releasing reliability.

The HORNET EL packer is run and set on electric line using an E-4™ (Product Family No. H43702) with a slow-set power charge or a J™ setting tool (Product Family No. H41371) and a special wireline adapter kit. An L-10™ type on/off seal nipple is run on top of the packer to connect the tubing to the packer and to house a blanking plug when the packer is used as a temporary bridge plug.

### Features and Benefits

- Upper Slip Assembly:
  - Thoroughly tested across API minimum to maximum casing ID tolerances for each specified casing weight, for setting and releasing reliability
  - Slip-wicker configuration providing bidirectional-load support with solid upper cone to support highest tensile loads
  - Staged-release action eliminates high-overpull requirement
  - Minimal set-down weight required to anchor slips
- Internal Bypass Seal:
  - Durable bypass seal design provides sealing after unloading, under differential pressures
  - No O-ring sealing system
- Packing Element System:
  - Fully tested to combined ratings at the API's maximum ID tolerance
  - Patented enhancements to control overboost
  - High-performance, three-piece element system
- Lower Slip and Jay Assembly:
  - Slips and drag blocks tested to maximum API tolerance ID for positive set and ease of release
  - One-quarter-turn right setting and releasing action
  - Packoff of packing elements with applied tension or compression
  - Spacing in jay ensures opening of internal bypass, before slip releasing action begins—important to both ease of release and safety
  - Automatically returns to running position



HORNET Packer  
Product Family  
No. H64682

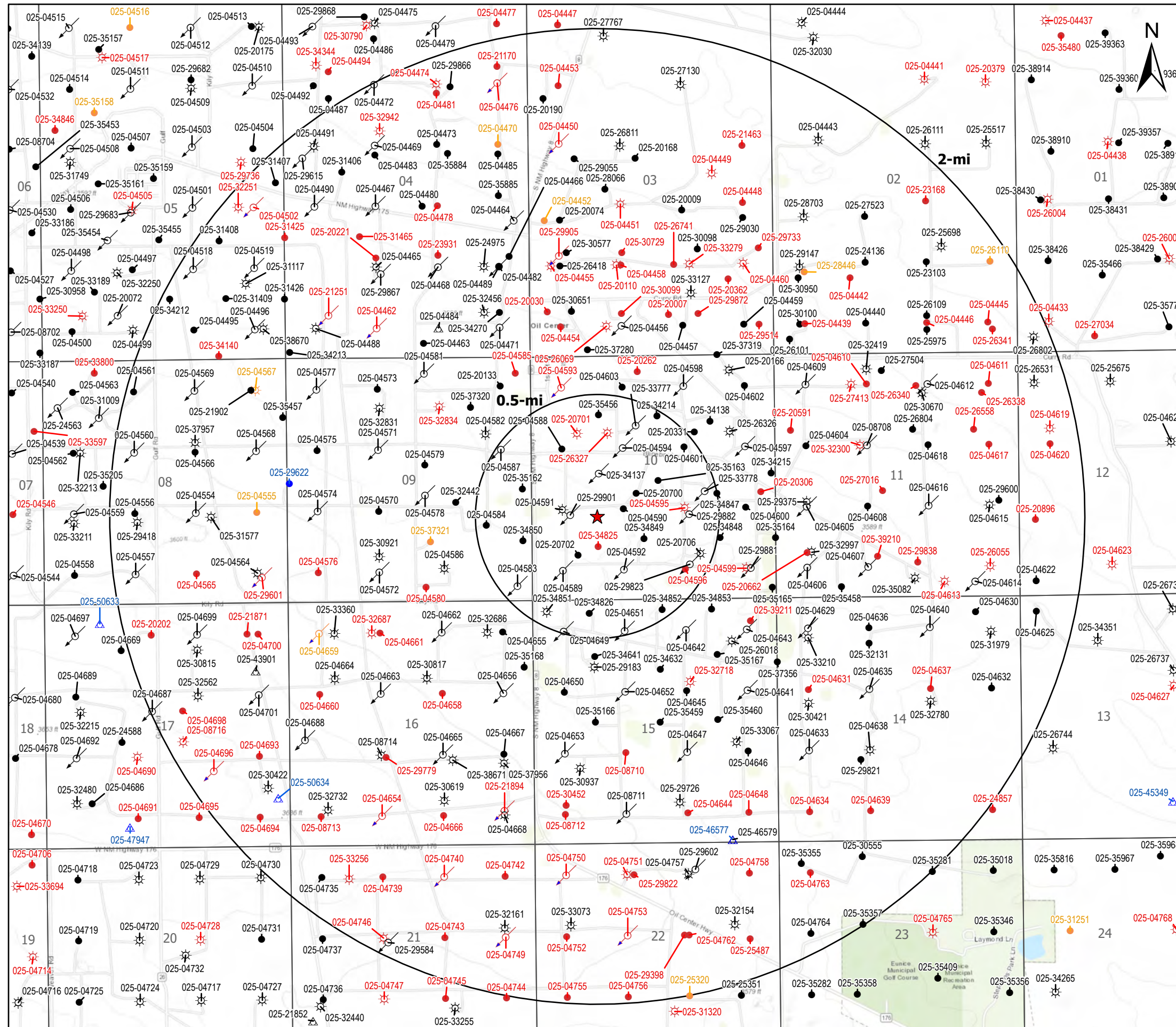
HORNET EL Packer  
Product Family  
No. H64683

## Attachment 2

### Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List With Penetrating Well Casing and Plugging Information
- Wellbore Diagrams - Plugged Penetrating Wells
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map





### Legend

- ★ Proposed SWD
- ☀ Gas, Active (96)
- ☀ Gas, Plugged (49)
- ☀ Gas, Temporarily Abandoned (1)
- ↻ Injection, Active (94)
- ↻ Injection, Plugged (15)
- ↻ Injection, Temporarily Abandoned (1)
- Oil, Active (178)
- Oil, New (1)
- Oil, Plugged (99)
- Oil, Temporarily Abandoned (10)
- △ Salt Water Injection, Active (4)
- △ Salt Water Injection, New (5)

Source Info: NMOCD O&G Wells updated 1/17/2023  
 (https://www.emnrd.nm.gov/ocd/ocd-data/ftp-server/)

## O&G Wells Area of Review

### SEAVER SWD #1

LEA COUNTY, NEW MEXICO

Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
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Prepared for: <b>GOODNIGHT</b> MIDSTREAM	Prepared by: <b>ALLCONSULTING</b>
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## AOR Tabulation for Seaver SWD #1 (Injection Interval: 4,200' - 5,300')

Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth	Penetrate Inj. Zone?
EUNICE MONUMENT SOUTH UNIT #344	30-025-04592	Injection	Empire New Mexico LLC	3/3/1936	N-10-21S-36E	3,865	No
A J ADKINS COM #001	30-025-04591	Gas	Empire New Mexico LLC	4/7/1937	L-10-21S-36E	3,867	No
EUNICE MONUMENT SOUTH UNIT #317	30-025-04590	Oil	Empire New Mexico LLC	4/4/1936	K-10-21S-36E	3,880	No
EUNICE MONUMENT SOUTH UNIT #359	30-025-04651	Injection	Empire New Mexico LLC	8/12/1936	C-15-21S-36E	3,881	No
EUNICE MONUMENT SOUTH UNIT #360	30-025-04649	Injection	Empire New Mexico LLC	1/24/1936	D-15-21S-36E	3,885	No
EUNICE MONUMENT SOUTH UNIT #303	30-025-04594	Injection	Empire New Mexico LLC	10/26/1936	F-10-21S-36E	3,890	No
EUNICE MONUMENT SOUTH UNIT #670	30-025-34214	Oil	Empire New Mexico LLC	2/17/1998	B-10-21S-36E	3,893	No
EUNICE MONUMENT SOUTH UNIT #342	30-025-04583	Injection	Empire New Mexico LLC	12/23/1935	P-09-21S-36E	3,895	No
EUNICE MONUMENT SOUTH UNIT #696	30-025-34137	Injection	Empire New Mexico LLC	12/2/1997	F-10-21S-36E	3,910	No
EUNICE MONUMENT SOUTH UNIT #343	30-025-04589	Injection	Empire New Mexico LLC	12/8/1935	M-10-21S-36E	3,910	No
EUNICE MONUMENT SOUTH UNIT #301	30-025-04587	Injection	Empire New Mexico LLC	9/29/1957	H-09-21S-36E	3,900	No
EUNICE MONUMENT SOUTH UNIT #735	30-025-34826	Oil	Empire New Mexico LLC	2/4/2000	D-15-21S-36E	3,925	No
EUNICE MONUMENT SOUTH UNIT #736	30-025-34852	Oil	Empire New Mexico LLC	3/15/2000	B-15-21S-36E	3,925	No
EUNICE MONUMENT SOUTH UNIT #671	30-025-35456	Oil	Empire New Mexico LLC	6/5/2001	C-10-21S-36E	3,925	No
EUNICE MONUMENT SOUTH UNIT #709	30-025-34849	Oil	Empire New Mexico LLC	3/8/2000	K-10-21S-36E	3,930	No
EUNICE MONUMENT SOUTH UNIT #695	30-025-35162	Oil	Empire New Mexico LLC	10/12/2000	I-09-21S-36E	3,930	No
EUNICE MONUMENT SOUTH UNIT #710	30-025-34825	Plugged	Empire New Mexico LLC	1/25/2000	N-10-21S-36E	3,931	No
EUNICE MONUMENT SOUTH UNIT #304	30-025-04601	Oil	Empire New Mexico LLC	11/15/1936	G-10-21S-36E	3,935	No
EUNICE MONUMENT SOUTH UNIT #711	30-025-34850	Oil	Empire New Mexico LLC	4/11/2000	P-09-21S-36E	3,940	No
EUNICE MONUMENT SOUTH UNIT #318	30-025-29901	Injection	Empire New Mexico LLC	12/31/9999	L-10-21S-36E	4,000	No
EUNICE MONUMENT SOUTH UNIT #316	30-025-29882	Injection	Empire New Mexico LLC	4/24/1987	J-10-21S-36E	4,050	No
EUNICE MONUMENT SOUTH UNIT #345	30-025-29823	Injection	Empire New Mexico LLC	3/22/1987	O-10-21S-36E	4,054	No
A J ADKINS COM #009	30-025-20701	Plugged	Empire New Mexico LLC	12/31/9999	E-10-21S-36E	Plugged (5,960)	Yes
A J ADKINS COM #010	30-025-20702	Oil	Empire New Mexico LLC	10/16/1964	M-10-21S-36E	6,010	Yes
JOHN D KNOX #012	30-025-20706	Gas	Empire New Mexico LLC	3/27/1964	O-10-21S-36E	6,020	Yes
A J ADKINS #008	30-025-20700	Oil	Empire New Mexico LLC	12/31/9999	K-10-21S-36E	6,050	Yes
JOHN D KNOX #014	30-025-33778	Injection	Empire New Mexico LLC	1/1/1998	J-10-21S-36E	6,220	Yes
A J ADKINS #011	30-025-33777	Injection	Empire New Mexico LLC	12/9/1997	F-10-21S-36E	6,225	Yes
EUNICE MONUMENT SOUTH UNIT #319	30-025-04584	Oil	Empire New Mexico LLC	4/1/1936	I-09-21S-36E	3790'	No
JOHN D KNOX #001	30-025-04595	Plugged	EXXON MOBIL CORPORATION	2/16/1936	J-10-21S-36E	3,865	No
PRE-ONGARD WELL #002	30-025-04596	Plugged	PRE-ONGARD WELL OPERATOR	1/1/1900	O-10-21S-36E	3,860	No
A J ADKINS COM #002	30-025-26327	Plugged	XTO ENERGY, INC	7/5/1979	F-10-21S-36E	3,675	No
EUNICE MONUMENT SOUTH UNIT #302	30-025-04588	Oil	XTO ENERGY, INC	10/18/1935	E-10-21S-36E	3,890	No
EUNICE MONUMENT SOUTH UNIT #734	30-025-34851	Gas	XTO ENERGY, INC	3/23/2000	D-15-21S-36E	3,940	No
EUNICE MONUMENT SOUTH UNIT #697	30-025-35163	Oil	XTO ENERGY, INC	10/20/2000	J-10-21S-36E	3,942	No

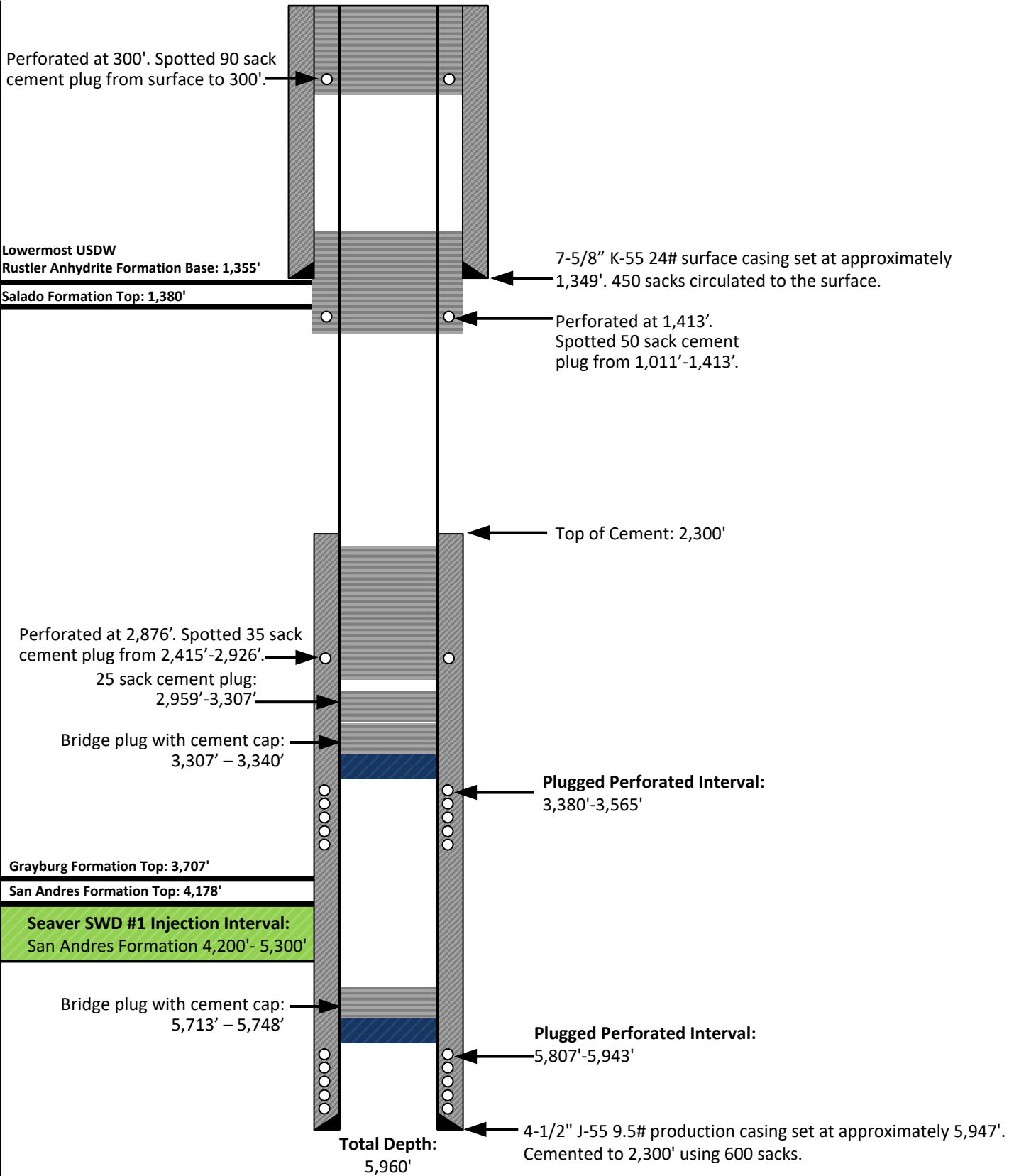
Notes:

### Casing Information for Wells Penetrating the Seaver SWD #1 Injection Zone

Well Name	Surface Casing					Intermediate Casing					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
A J ADKINS COM #009	1349'	7.625"	Surface	Circulation	450	N/A	N/A	N/A	N/A	N/A	N/A
A J ADKINS COM #010	1413'	7.625"	Surface	Circulation	450	N/A	N/A	N/A	N/A	N/A	N/A
JOHN D KNOX #012	1353'	7.625"	Surface	Circulation	450	N/A	N/A	N/A	N/A	N/A	N/A
A J ADKINS #008	1364'	7.625"	Surface	Circulation	625	N/A	N/A	N/A	N/A	N/A	N/A
JOHN D KNOX #014	1350'	8.625"	Surface	Circulation	800	N/A	N/A	N/A	N/A	N/A	N/A
A J ADKINS #011	1362'	8.625"	Surface	Circulation	640	N/A	N/A	N/A	N/A	N/A	N/A

Well Name	Production Casing , Intermediate II Casing, or Liner					Production Casing II & Liner					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
A J ADKINS COM #009	5947'	4.5"	2300'	Temp. Survey	600	N/A	N/A	N/A	N/A	N/A	N/A
A J ADKINS COM #010	6010'	4.5"	2285'	Temp. Survey	600	N/A	N/A	N/A	N/A	N/A	N/A
JOHN D KNOX #012	6020'	4.5"	2500'	Temp. Survey	525	N/A	N/A	N/A	N/A	N/A	N/A
A J ADKINS #008	6040'	4.5"	2600'	Temp. Survey	600	N/A	N/A	N/A	N/A	N/A	N/A
JOHN D KNOX #014	6400'	5.5"	Surface	Circulation	1200	N/A	N/A	N/A	N/A	N/A	N/A
A J ADKINS #011	6219'	5.5"	Surface	Circulation	1245	N/A	N/A	N/A	N/A	N/A	N/A

Well Name	Plugging Information
A J ADKINS COM #009	Bridge plug with cement cap 5,713' - 5,748', second bridge plug with a cement cap 3,307'-3,340'. Plugs set at 2959' - 3,307' with 25 sacks, 2,415'-2,926' with 35 sacks, 1,011' - 1,413' with 50 sacks, surface - 300' with 90 sacks.
A J ADKINS COM #010	-
JOHN D KNOX #012	-
A J ADKINS #008	-
JOHN D KNOX #014	-
A J ADKINS #011	-



Not to Scale

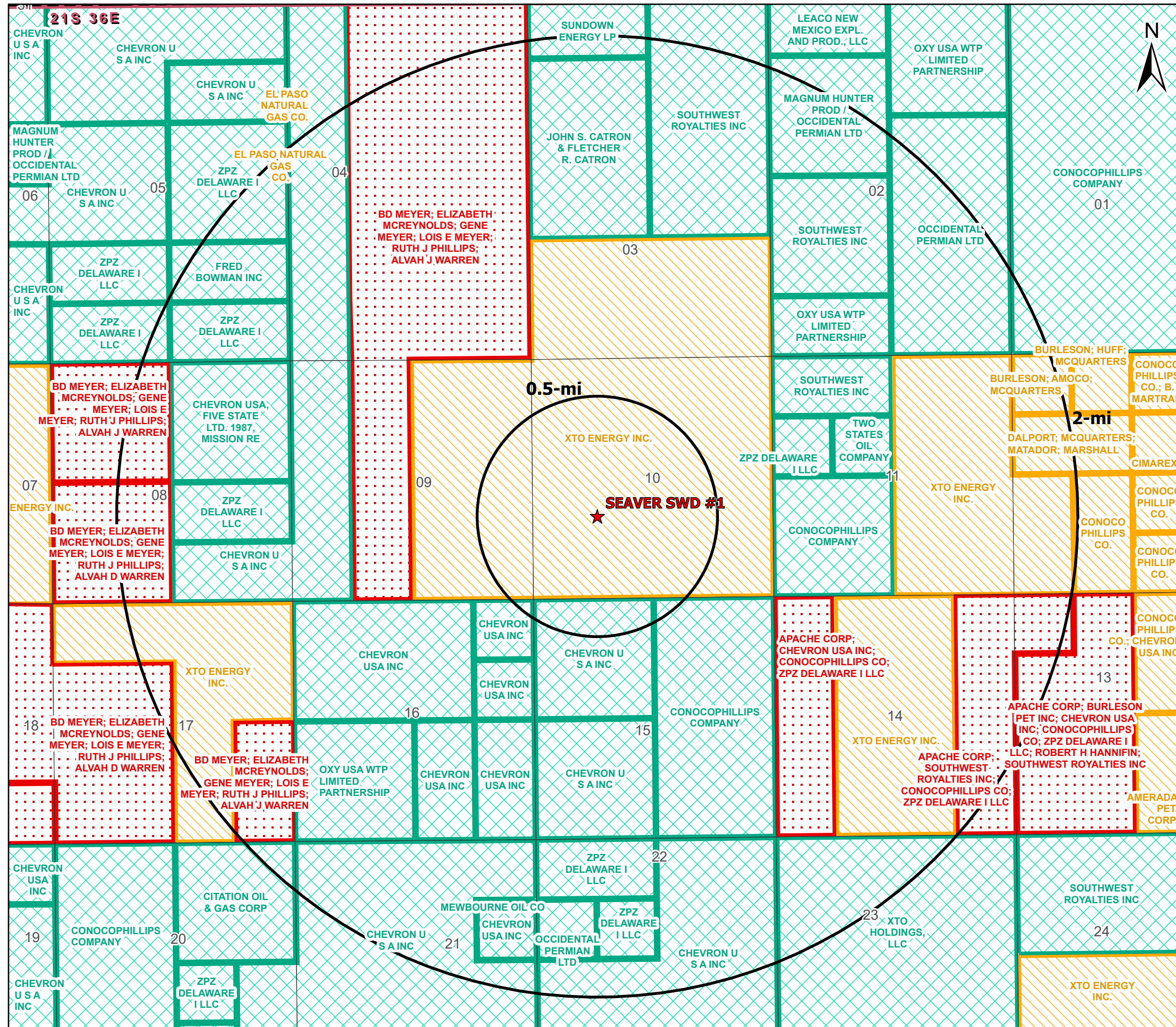
Prepared by:  
  
 Prepared for:  


Drawn by: Joshua Ticknor

Project Manager:  
Nathan Alleman

Date: 05/05/2023

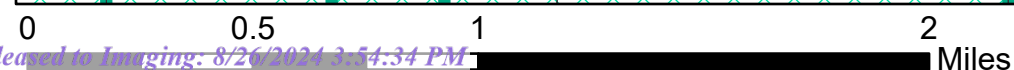
Adkins A J 9  
 Wellbore Diagram  
 API: 30-025-20701  
 Spud Date: 11/05/1992  
 Plugged and Abandoned: 03/18/2020  
 Operated By: Exxon Mobil Corporation



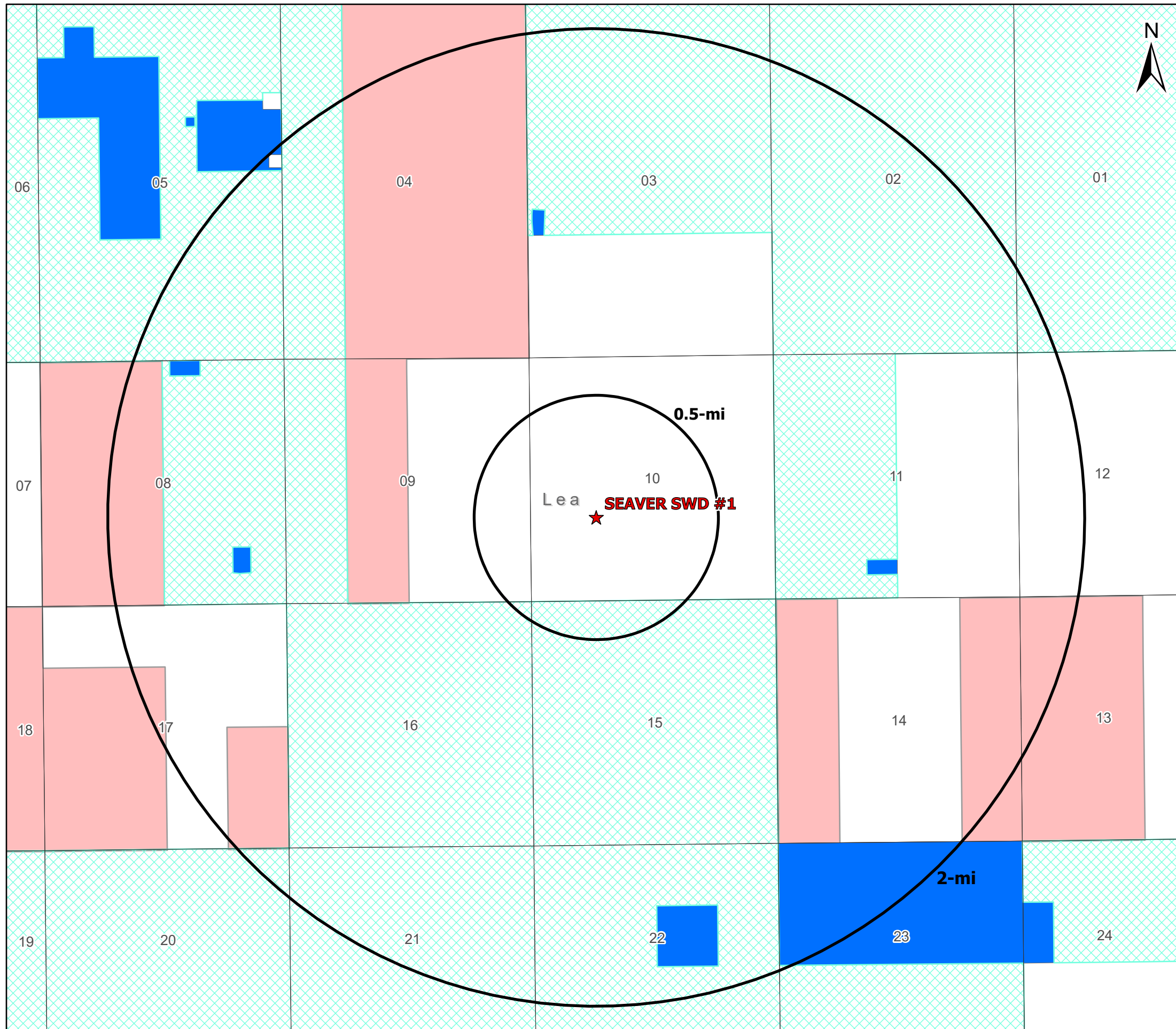
### Legend

- ★ Proposed SWD
- NMSLO Mineral Leases
- BLM Mineral Leases
- Private Mineral Leases

<b>Mineral Lease Area of Review</b>		
<b>SEAVER SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> <small>MIDSTREAM</small>	Prepared by: <b>ALLCONSULTING</b>	







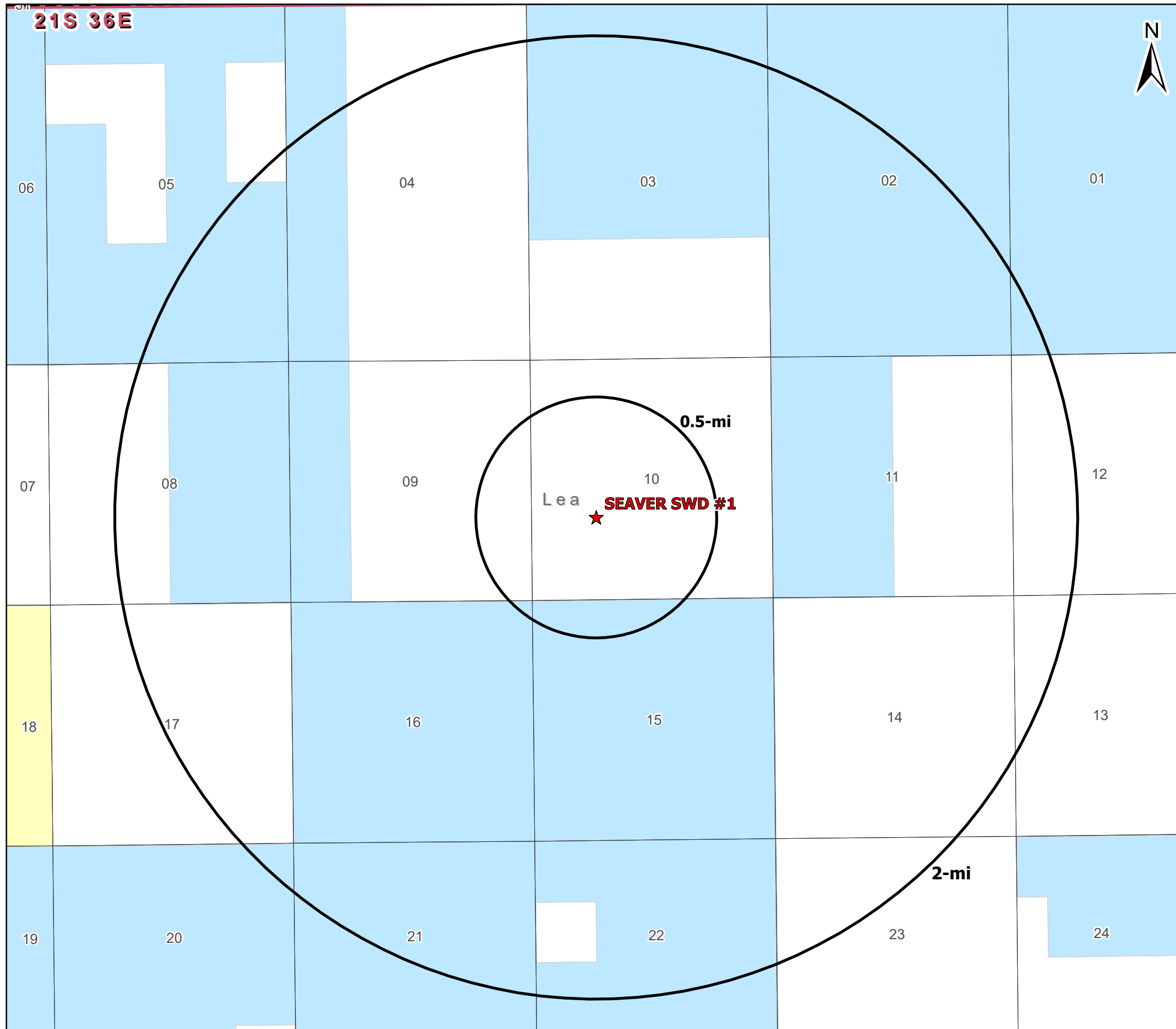
### Legend

- ★ Proposed SWD
- Private minerals
- Subsurface minerals (NMSLO)
- Surface and Subsurface minerals (NMSLO)
- All minerals are owned by U.S. (BLM)

<b>Mineral Ownership Area of Review</b>		
<b>SEAVR SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
<small>Prepared for:</small> <b>GOODNIGHT</b> <small>MIDSTREAM</small>	<small>Prepared by:</small> <b>ALLCONSULTING</b>	

Source Info: BLM Mineral Ownership (<https://catalog.data.gov/dataset/blm-new-mexico-mineral-ownership>) & NMSLO Ownership (<http://www.nmstatelands.org/maps-gis/gis-data-download/>)





### Legend

★ Proposed SWD

### Surface Ownership

BLM

Private

State

## Surface Ownership Area of Review

### SEAVR SWD #1 LEA COUNTY, NEW MEXICO

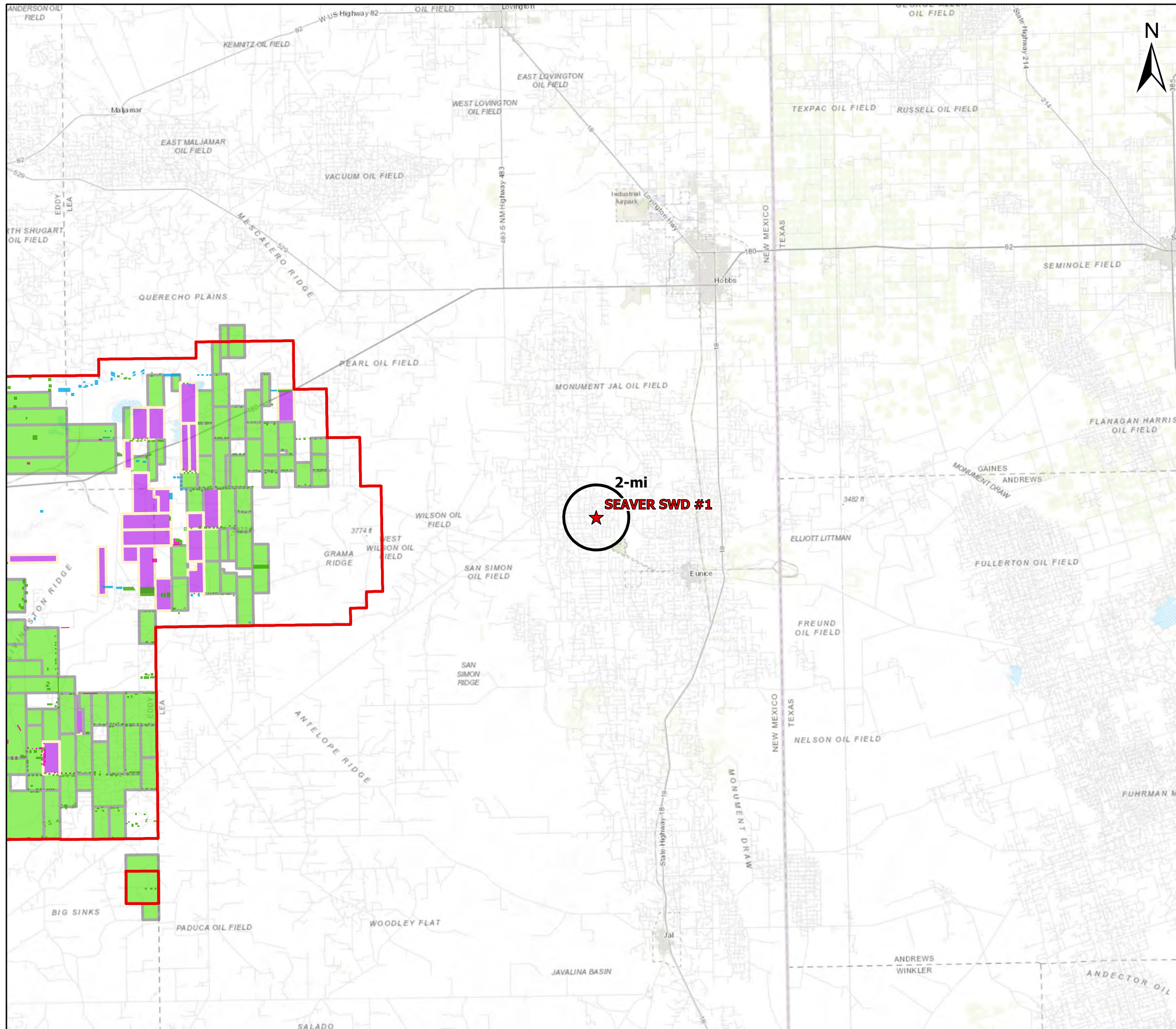
Proj Mgr:  
Nate Alleman

May 03, 2023

Mapped by:  
Ben Bockelmann

Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Prepared by:  
**ALL**CONSULTING



### Legend

- ★ Proposed SWD (1)
- SOPA 1986 (2)
- Drill Islands**
- Status, Depth Buffer**
- Approved, Half Mile (288)
- Approved, Quarter Mile (29)
- Nominated, Half Mile (46)
- Nominated, Quarter Mile (1)
- Development Areas**
- Status**
- Approved (86)
- Pending (24)
- Pending NMOCD Order (0)

<b>Potash Area of Review</b>		
<b>SEAVR SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	May 03, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM	Prepared by: <b>ALLCONSULTING</b>	

**Attachment 3**

Source Water Analyses



Source Water Formation Analysis																	
Goodnight Midstream Permian, LLC - Bone Spring, Wolfcamp & Delaware Formations																	
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND	109,808	66,985	281	1,030
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND	139,905	85,081	293	740
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	184,420	115,274	268	765
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON	266,468	167,562	366	-
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON		224,384	366	210
GAUCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON		169,000	37	341
GAUCHO UNIT #012H	3002541564	32.384037	-103.4853745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND		68,000	427	97
GAUCHO UNIT #013H	3002541565	32.3841743	-103.4853745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND		77,000	305	1,600
GAUCHO UNIT #014H	3002541571	32.3840523	-103.4984589	20	22S	34E	D	150N	660W	Lea	NM		BONE SPRING 2ND SAND		82,000	220	624
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	158,147	96,378	232	710
MOBIL LEA STATE #001	3002531696	32.5999107	-103.5331573	2	20S	34E	K	1800S	1980W	LEA	NM	LEA NORTHEAST	DELAWARE	152,064	102,148	404	691
MOBIL LEA STATE #003	3002532105	32.5976906	-103.5367584	2	20S	34E	M	990S	870W	LEA	NM	LEA NORTHEAST	DELAWARE	296,822	215,237	143	294
MOBIL LEA STATE #005	3002532466	32.6028633	-103.5367584	2	20S	34E	E	2440N	870W	LEA	NM	LEA NORTHEAST	DELAWARE	340,838	245,270	229	147
LEA UNIT #004H	3002502424	32.5895081	-103.524559	11	20S	34E	H	1980N	660E	LEA	NM	LEA	BONE SPRING	29,436	16,720	634	1,142
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	DELAWARE	214,787	132,700	208	1,816
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	BONE SPRING	15,429			
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	BONE SPRING	180,701	108,300	1,016	670
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	LEA	NM	LEA	BONE SPRING	202,606	118,100	5,196	992
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	LEA	NM	LEA	BONE SPRING	121,800			
LEA UNIT #008	3002502431	32.5927162	-103.511673	12	20S	34E	B	810N	1980E	LEA	NM	LEA	BONE SPRING	147,229	89,640	108	1,038
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND	261,089	160,264	122	425
MONK 21 STATE #004H	3002542193	32.47107672	-103.4727296	21	21S	34E	B	200N	1980E	Lea	NM		BONE SPRING 2ND SAND	184,233	112,775	488	425
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND		103,000	207	439
H L VINSON #001	3002503587	33.5251312	-103.237999	22	09S	36E	A	660N	660E	Lea	NM		WOLFCAMP		66,400	187	690
PHILLIPS STATE #001	3002503659	33.3458824	-103.2939529	22	11S	36E	N	660S	1980W	LEA	NM	CINDY	WOLFCAMP	78,885	47,400	354	875
STATE CA #001	3002503743	32.902153	-103.3229828	23	16S	36E	O	660S	1980E	LEA	NM	LOVINGTON	WOLFCAMP	167,968	102,800	61	623
SINCLAIR STATE #002	3002503123	32.7386246	-103.4561005	21	18S	35E	A	660N	660E	LEA	NM	VACUUM SOUTH	WOLFCAMP	60,950	33,568	1,087	3,049

**Attachment 4**

Injection Formation Water Analyses



Goodnight Midstream Permian, LLC - San Andres Formation																	
Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
SIMMONS #001	3002510070	32.4232674	-103.1821976	5	22S	37E	G	1760N	1760E	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	78,653	46,510	580	2,184
C P FALBY B FEDERAL #004	3002510106	32.4045296	-103.1914597	8	22S	37E	L	1980S	660W	LEA	NM	CARY	SAN ANDRES	80,540	43,500	755	5,950
C P FALBY A FEDERAL #003	3002510118	32.4081421	-103.1871872	8	22S	37E	F	1980N	1980W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	59,766			
C P FALBY A FEDERAL #004	3002510120	32.4081345	-103.1914673	8	22S	37E	E	1980N	660W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	10,925	5,312	1,620	201
PENROSE #002	3002510146	32.4078712	-103.1739807	9	22S	37E	E	2086N	776W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	64,895	38,010	488	2,100
LOU WORTHAM #020	3002510216	32.411808	-103.1401749	11	22S	37E	D	660N	660W	LEA	NM	EUNICE SOUTH	SAN ANDRES	10,947	6,527	20	236
LOU WORTHAM #005	3002523606	32.4109001	-103.1369629	11	22S	37E	C	990N	1650W	LEA	NM	EUNICE SOUTH	SAN ANDRES	18,587	9,460	13	2,518
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	9,192	4,443	12	1,491
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,868	9,040	24	112
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	13,828	7,298	18	1,389
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,957	8,867	18	406
HUGH COI #013	3002523275	32.3982162	-103.1396637	14	22S	37E	D	330N	820W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,215	6,495	2,529	191
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,824	7,018	2,344	207
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT PADDOCK	SAN ANDRES	65,365	36,905	560	1,460
THEODORE ANDERSON #002	3002506139	32.5785942	-103.2758102	17	20S	37E	C	660N	1980W	Lea	NM		SAN ANDRES		67,245	564	489
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT	SAN ANDRES	65,361	36,900	560	1,460

**Attachment 5**

Water Well Map and Well Data





### Legend

★ Proposed SWD

### OSE PODs

#### Status

- Active (7)
- Pending (1)
- Change Location of Well (0)
- Capped (0)
- Plugged (0)
- Incomplete (0)
- Unknown (2)

## Water Wells Area of Review

### SEAVER SWD #1

LEA COUNTY, NEW MEXICO

Proj Mgr:  
Nate Alleman

May 03, 2023

Mapped by:  
Ben Bockelmann





Water Well Sampling Rationale					
Goodnight Midstream Permian- Seaver SWD #1					
Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
CP-00147-POD1	HUMBLE OIL & REFINING COMPANY	P.O. BOX 2100, Hobbs, NM, 88240	Commercial	No	Two water wells are already being sampled.
CP-00505	SNYDER RANCHES LTD.	P.O. BOX 726, Lovington, NM, 88260	Livestock Watering	No	Owner was unaware of a well at this location, believes there to be a caliche pit located there.
CP-00690	SUN EXPL. & PROD.	P.O. BOX 692, Tatum, NM, 88267	PRO	No	Two water wells are already being sampled.
CP-00692	W.L. VAN NOY	P.O. BOX 7, Oil Center, NM, 88266	Domestic	No	Two water wells are already being sampled.
CP-00695-POD1	CHEVRON USA INC	P.O. BOX 670, Hobbs, NM, 88240	Secondary Recovery of Oil	No	Not a freshwater well.
CP-00734	W.L. VAN NOY	P.O. BOX 7, Oil Center, NM, 88266	Domestic	No	Two water wells are already being sampled.
CP-01039-POD1	Jerauld Anderson	575-631-1922	Domestic	Yes	Sampled on 9/9/2021
CP-01696-POD1	Wilberta Tivis - Tivis Ranch LLC	P.O. box 1617 Eunice, nm 88231 575-369-8419 Cell 575-394-3223 Ranch phone	Livestock Watering	Yes	Sampled on 8/26/2021
L-14815-POD1	Micheal & Carla Mcneil	P.O. Box 1032 Eunice, NM 88231 575-390-7138 cell (carla)	Domestic	No	Two water wells are already being sampled.
<b>Note:</b>					



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 17, 2021

OLIVER SEEKINS  
ALL CONSULTING, LLC  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119

RE: JERAULD ANDERSON

Enclosed are the results of analyses for samples received by the laboratory on 09/09/21 11:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene  
Lab Director/Quality Manager





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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
---	---	------------------------------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CP - 01039 POD 1	H212493-01	Water	09-Sep-21 10:30	09-Sep-21 11:12

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
---	---	------------------------------

**CP - 01039 POD 1  
H212493-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Alkalinity, Bicarbonate	342		5.00	mg/L	1	1072906	GM	09-Sep-21	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	1072906	GM	09-Sep-21	310.1	
Chloride*	1000		4.00	mg/L	1	1090801	GM	09-Sep-21	4500-Cl-B	
Conductivity*	5030		1.00	umhos/cm @ 25°C	1	1090914	GM	09-Sep-21	120.1	
pH*	7.21		0.100	pH Units	1	1090914	GM	09-Sep-21	150.1	
Temperature °C	19.9			pH Units	1	1090914	GM	09-Sep-21	150.1	
Resistivity	1.99			Ohms/m	1	1090914	GM	09-Sep-21	120.1	
Specific Gravity @ 60° F	1.004		0.000	[blank]	1	1090915	GM	09-Sep-21	SM 2710F	
Sulfate*	1220		250	mg/L	25	1090803	GM	10-Sep-21	375.4	
TDS*	3420		5.00	mg/L	1	1090811	GM	13-Sep-21	160.1	
Alkalinity, Total*	280		4.00	mg/L	1	1072906	GM	09-Sep-21	310.1	
TSS*	3.00		2.00	mg/L	1	1091005	GM	14-Sep-21	160.2	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Barium*	<0.250		0.250	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Calcium*	199		0.500	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Hardness as CaCO3	971		3.31	mg/L	5	[CALC]	AES	16-Sep-21	2340 B	
Iron*	<0.250		0.250	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Magnesium*	115		0.500	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Potassium*	29.1		5.00	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Sodium*	787		5.00	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	
Strontium*	5.72		0.500	mg/L	5	B212168	AES	16-Sep-21	EPA200.7	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
---	---	------------------------------

**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1072906 - General Prep - Wet Chem**

<b>Blank (1072906-BLK1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

<b>LCS (1072906-BS1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			

<b>LCS Dup (1072906-BSD1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120	0.00	20	
Alkalinity, Total	250	10.0	mg/L	250		100	80-120	0.00	20	

**Batch 1090801 - General Prep - Wet Chem**

<b>Blank (1090801-BLK1)</b>		Prepared & Analyzed: 08-Sep-21								
Chloride	ND	4.00	mg/L							

<b>LCS (1090801-BS1)</b>		Prepared & Analyzed: 08-Sep-21								
Chloride	104	4.00	mg/L	100		104	80-120			

<b>LCS Dup (1090801-BSD1)</b>		Prepared & Analyzed: 08-Sep-21								
Chloride	100	4.00	mg/L	100		100	80-120	3.92	20	

**Batch 1090803 - General Prep - Wet Chem**

<b>Blank (1090803-BLK1)</b>		Prepared: 08-Sep-21 Analyzed: 10-Sep-21								
Sulfate	ND	10.0	mg/L							

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\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1090803 - General Prep - Wet Chem**

**LCS (1090803-BS1)** Prepared: 08-Sep-21 Analyzed: 10-Sep-21

Sulfate	22.0	10.0	mg/L	20.0		110	80-120			
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**LCS Dup (1090803-BSD1)** Prepared: 08-Sep-21 Analyzed: 10-Sep-21

Sulfate	19.2	10.0	mg/L	20.0		96.0	80-120	13.4	20	
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**Batch 1090811 - Filtration**

**Blank (1090811-BLK1)** Prepared: 08-Sep-21 Analyzed: 10-Sep-21

TDS	ND	5.00	mg/L							
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**LCS (1090811-BS1)** Prepared: 08-Sep-21 Analyzed: 10-Sep-21

TDS	275		mg/L	300		91.7	80-120			
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**Duplicate (1090811-DUP1)** Source: H212440-02 Prepared: 08-Sep-21 Analyzed: 10-Sep-21

TDS	661	5.00	mg/L		699			5.59	20	
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**Batch 1090914 - General Prep - Wet Chem**

**LCS (1090914-BS1)** Prepared & Analyzed: 09-Sep-21

pH	7.04		pH Units	7.00		101	90-110			
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Conductivity	494		uS/cm	500		98.8	80-120			
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**Duplicate (1090914-DUP1)** Source: H212493-01 Prepared & Analyzed: 09-Sep-21

pH	7.23	0.100	pH Units		7.21			0.277	20	
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Conductivity	5060	1.00	umhos/cm @ 25°C		5030			0.595	20	
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Resistivity	1.98		Ohms/m		1.99			0.595	20	
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Temperature °C	20.0		pH Units		19.9			0.501	200	
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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1090915 - General Prep - Wet Chem**

<b>Duplicate (1090915-DUP1)</b>	<b>Source: H212493-01</b>		<b>Prepared &amp; Analyzed: 09-Sep-21</b>							
Specific Gravity @ 60° F	1.012	0.000	[blank]		1.004			0.806	20	

**Batch 1091005 - Filtration**

<b>Blank (1091005-BLK1)</b>	<b>Prepared: 10-Sep-21 Analyzed: 14-Sep-21</b>									
TSS	ND	2.00	mg/L							

<b>Duplicate (1091005-DUP1)</b>	<b>Source: H212493-01</b>		<b>Prepared: 10-Sep-21 Analyzed: 14-Sep-21</b>							
TSS	4.00	2.00	mg/L		3.00			28.6	52.7	

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: JERAULD ANDERSON Project Number: 32.50083-103.259567 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 17-Sep-21 14:00
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**Total Recoverable Metals by ICP (E200.7) - Quality Control**

**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B212168 - Total Rec. 200.7/200.8/200.2**

**Blank (B212168-BLK1)**

Prepared: 15-Sep-21 Analyzed: 16-Sep-21

Magnesium	ND	0.100	mg/L							
Strontium	ND	0.100	mg/L							
Barium	ND	0.050	mg/L							
Sodium	ND	1.00	mg/L							
Potassium	ND	1.00	mg/L							
Calcium	ND	0.100	mg/L							
Iron	ND	0.050	mg/L							

**LCS (B212168-BS1)**

Prepared: 15-Sep-21 Analyzed: 16-Sep-21

Magnesium	9.98	0.100	mg/L	10.0		99.8	85-115			
Iron	1.95	0.050	mg/L	2.00		97.6	85-115			
Barium	0.983	0.050	mg/L	1.00		98.3	85-115			
Potassium	3.93	1.00	mg/L	4.00		98.3	85-115			
Sodium	1.53	1.00	mg/L	1.62		94.6	85-115			
Calcium	1.95	0.100	mg/L	2.00		97.3	85-115			
Strontium	1.90	0.100	mg/L	2.00		95.1	85-115			

**LCS Dup (B212168-BSD1)**

Prepared: 15-Sep-21 Analyzed: 16-Sep-21

Iron	1.95	0.050	mg/L	2.00		97.7	85-115	0.137	20	
Calcium	1.96	0.100	mg/L	2.00		97.8	85-115	0.568	20	
Magnesium	9.96	0.100	mg/L	10.0		99.6	85-115	0.237	20	
Potassium	3.98	1.00	mg/L	4.00		99.5	85-115	1.19	20	
Sodium	1.55	1.00	mg/L	1.62		95.5	85-115	0.984	20	
Strontium	1.93	0.100	mg/L	2.00		96.3	85-115	1.22	20	
Barium	0.944	0.050	mg/L	1.00		94.4	85-115	4.10	20	

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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: <b>Lab. Services</b>		<b>BILL TO</b>	
Project Manager: <b>Dustin Armstrong</b>		P.O. #:	
Address:		Company: <b>Cell Central</b>	
City:	State:	Zip:	Attn:
Phone #:	Fax #:	Address:	City:
Project #:	Project Owner: <b>Teravald Anderson</b>	State:	Zip:
Project Location: <b>32.50083, -103.259567</b>	Phone #:	Fax #:	
Sampler Name:			

FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	ANALYSIS REQUEST
	<b>H012443</b>	<b>CP-01039 Pod 1</b>	<b>GA</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE OTHER:	<input checked="" type="checkbox"/> ACID/BASE <input type="checkbox"/> ICE / COOL OTHER:		<b>9-9-21</b>	<b>1030</b>	<input checked="" type="checkbox"/> Cation/Anions <input checked="" type="checkbox"/> Spec. Gravity <input checked="" type="checkbox"/> TSS <input checked="" type="checkbox"/> Resistivity <input checked="" type="checkbox"/> Ba, Fe, Sr <input checked="" type="checkbox"/> Total Hardness

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Relinquished By: **Cedar D. [Signature]** Date: **9-9-21** Time: **1112**

Received By: **Jawana [Signature]** Date: **9-9-21** Time: **1030**

Delivered By: (Circle One) **UPS - Bus - Other** Observed Temp. °C: **5.8** Corrected Temp. °C: **9.0**

Sampler - UPS - Bus - Other:  Cool  Intact  Yes  No

Sample Condition:  Cool  Intact  Yes  No

Checked By: (Initials) **JD**

Turnaround Time: **Standard**  Rush  Add'l Phone #:

Bacteria (only)  Cool  Intact  Yes  No

Sample Condition:  Cool  Intact  Yes  No

Observed Temp. °C: **9.0** Corrected Temp. °C: **9.0**

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



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September 14, 2021

OLIVER SEEKINS  
ALL CONSULTING, LLC  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119

RE: WILBERTA TIVIS

Enclosed are the results of analyses for samples received by the laboratory on 08/26/21 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2      Total Haloacetic Acids (HAA-5)  
Method EPA 524.2      Total Trihalomethanes (TTHM)  
Method EPA 524.4      Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B      Total Coliform and E. coli (Colilert MMO-MUG)  
Method EPA 524.2      Regulated VOCs and Total Trihalomethanes (TTHM)  
Method EPA 552.2      Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene  
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CP - 01696 POD 1	H212303-01	Water	26-Aug-21 14:15	26-Aug-21 15:15

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**CP - 01696 POD 1  
H212303-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Alkalinity, Bicarbonate	200		5.00	mg/L	1	1072906	AC	27-Aug-21	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	1072906	AC	27-Aug-21	310.1	
Chloride*	900		4.00	mg/L	1	1081907	GM	30-Aug-21	4500-Cl-B	
Conductivity*	5000		1.00	umhos/cm @ 25°C	1	1082704	AC	27-Aug-21	120.1	
pH*	7.50		0.100	pH Units	1	1082704	AC	27-Aug-21	150.1	
Temperature °C	19.6			pH Units	1	1082704	AC	27-Aug-21	150.1	
Resistivity	2.00			Ohms/m	1	1082704	AC	27-Aug-21	120.1	
Sulfate*	1430		10.0	mg/L	1	1083008	GM	30-Aug-21	375.4	
TDS*	3530		5.00	mg/L	1	1081913	GM	30-Aug-21	160.1	
Alkalinity, Total*	164		4.00	mg/L	1	1072906	AC	27-Aug-21	310.1	
TSS*	2.00		2.00	mg/L	1	1083009	AC	31-Aug-21	160.2	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Barium*	<0.250		0.250	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Calcium*	233		0.500	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Hardness as CaCO3	1090		3.31	mg/L	5	[CALC]	AES	09-Sep-21	2340 B	
Iron*	<0.250		0.250	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Magnesium*	124		0.500	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Potassium*	15.3		5.00	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Sodium*	621		5.00	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Strontium*	6.51		0.500	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1072906 - General Prep - Wet Chem**

<b>Blank (1072906-BLK1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

<b>LCS (1072906-BS1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			

<b>LCS Dup (1072906-BSD1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120	0.00	20	
Alkalinity, Total	250	10.0	mg/L	250		100	80-120	0.00	20	

**Batch 1081907 - General Prep - Wet Chem**

<b>Blank (1081907-BLK1)</b>		Prepared & Analyzed: 19-Aug-21								
Chloride	ND	4.00	mg/L							

<b>LCS (1081907-BS1)</b>		Prepared & Analyzed: 19-Aug-21								
Chloride	100	4.00	mg/L	100		100	80-120			

<b>LCS Dup (1081907-BSD1)</b>		Prepared & Analyzed: 19-Aug-21								
Chloride	104	4.00	mg/L	100		104	80-120	3.92	20	

**Batch 1081913 - Filtration**

<b>Blank (1081913-BLK1)</b>		Prepared: 19-Aug-21 Analyzed: 20-Aug-21								
TDS	ND	5.00	mg/L							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1081913 - Filtration**

**LCS (1081913-BS1)** Prepared: 19-Aug-21 Analyzed: 20-Aug-21

TDS	539		mg/L	500		108	80-120			
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**Duplicate (1081913-DUP1)** Source: H212190-02 Prepared: 19-Aug-21 Analyzed: 20-Aug-21

TDS	620	5.00	mg/L		645			3.95	20	
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**Batch 1082704 - General Prep - Wet Chem**

**LCS (1082704-BS1)** Prepared & Analyzed: 27-Aug-21

Conductivity	51400		uS/cm	50000		103	80-120			
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pH	7.05		pH Units	7.00		101	90-110			
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**Duplicate (1082704-DUP1)** Source: H212303-01 Prepared & Analyzed: 27-Aug-21

pH	7.54	0.100	pH Units		7.50			0.532	20	
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Conductivity	5010	1.00	umhos/cm @ 25°C		5000			0.200	20	
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Resistivity	2.00		Ohms/m		2.00			0.200	20	
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Temperature °C	19.6		pH Units		19.6			0.00	200	
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**Batch 1083008 - General Prep - Wet Chem**

**Blank (1083008-BLK1)** Prepared & Analyzed: 30-Aug-21

Sulfate	ND	10.0	mg/L							
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**LCS (1083008-BS1)** Prepared & Analyzed: 30-Aug-21

Sulfate	20.5	10.0	mg/L	20.0		103	80-120			
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**LCS Dup (1083008-BSD1)** Prepared & Analyzed: 30-Aug-21

Sulfate	21.9	10.0	mg/L	20.0		110	80-120	6.59	20	
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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 1083009 - Filtration**

<b>Blank (1083009-BLK1)</b>				Prepared: 30-Aug-21 Analyzed: 31-Aug-21						
TSS	ND	2.00	mg/L							
<b>Duplicate (1083009-DUP1)</b>				Source: H212303-01 Prepared: 30-Aug-21 Analyzed: 31-Aug-21						
TSS	2.00	2.00	mg/L		2.00			0.00	52.7	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
---	---	------------------------------

**Total Recoverable Metals by ICP (E200.7) - Quality Control**

**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B212084 - Total Rec. 200.7/200.8/200.2**

**Blank (B212084-BLK1)**

Prepared: 07-Sep-21 Analyzed: 09-Sep-21

Magnesium	ND	0.100	mg/L							
Barium	ND	0.050	mg/L							
Strontium	ND	0.100	mg/L							
Calcium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
Iron	ND	0.050	mg/L							
Potassium	ND	1.00	mg/L							

**LCS (B212084-BS1)**

Prepared: 07-Sep-21 Analyzed: 09-Sep-21

Strontium	3.93	0.100	mg/L	4.00		98.3	85-115			
Sodium	3.19	1.00	mg/L	3.24		98.3	85-115			
Potassium	7.82	1.00	mg/L	8.00		97.7	85-115			
Magnesium	20.3	0.100	mg/L	20.0		101	85-115			
Iron	3.94	0.050	mg/L	4.00		98.6	85-115			
Calcium	3.97	0.100	mg/L	4.00		99.3	85-115			
Barium	1.96	0.050	mg/L	2.00		98.1	85-115			

**LCS Dup (B212084-BSD1)**

Prepared: 07-Sep-21 Analyzed: 09-Sep-21

Magnesium	20.2	0.100	mg/L	20.0		101	85-115	0.516	20	
Calcium	3.90	0.100	mg/L	4.00		97.6	85-115	1.81	20	
Potassium	7.82	1.00	mg/L	8.00		97.7	85-115	0.0383	20	
Barium	1.93	0.050	mg/L	2.00		96.7	85-115	1.45	20	
Sodium	3.17	1.00	mg/L	3.24		97.9	85-115	0.443	20	
Strontium	3.92	0.100	mg/L	4.00		98.0	85-115	0.321	20	
Iron	3.87	0.050	mg/L	4.00		96.9	85-115	1.74	20	

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Celey D. Keene, Lab Director/Quality Manager





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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>Lab Services</b> Project Manager: <b>Dustin Armstrong</b>		P.O. #: _____ Company: <b>cel Consult</b> Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project Owner: <b>Wilburta Travis</b> Project Location: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project Name: _____ Project Location: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project Name: _____ Project Location: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Name: _____ Project Location: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project Name: _____ Project Location: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____		BILL TO ANALYSIS REQUEST	
Lab I.D. <b>H213303</b> Sample I.D. <b>CP-01696 Pod 1</b>		(G)RAB OR (C)OMP. _____ # CONTAINERS _____ GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____	
Date: <b>8-26-21</b> Time: <b>3:15</b> Date: _____ Time: _____		DATE <b>8-25-2024</b> TIME <b>2:15</b>	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____ Observed Temp. °C <b>5.9</b> Corrected Temp. °C _____ Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Bacteria (only) <input type="checkbox"/> Yes <input type="checkbox"/> No Sample Condition Observed Temp. °C _____ Corrected Temp. °C _____		RECEIVED BY: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____ RECEIVED BY: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____	
Turnaround Time: <b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Yes <input type="checkbox"/> No Sample Condition Observed Temp. °C _____ Corrected Temp. °C _____		REMARKS: _____ Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	

**Attachment 6**

Public Notice Affidavit and Notice of Application Confirmations

**APPLICATION FOR AUTHORIZATION TO INJECT**

NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION: Seaver SWD #1  
Located 6.8 miles northwest of Eunice, NM  
UL K, Section 10, Township 21S, Range 36E  
1,809 FSL & 1,428' FWL  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: San Andres (4,200'– 5,300')

EXPECTED MAXIMUM INJECTION RATE: 42,000 Bbls/day

EXPECTED MAXIMUM INJECTION PRESSURE: 840 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.

# Affidavit of Publication

STATE OF NEW MEXICO  
COUNTY OF LEA

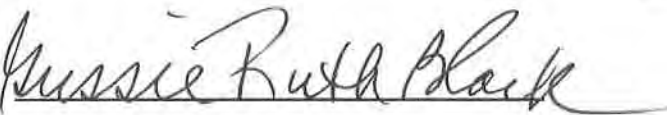
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated  
May 09, 2023  
and ending with the issue dated  
May 09, 2023.



Publisher

Sworn and subscribed to before me this  
9th day of May 2023.



Business Manager

My commission expires  
January 29, 2027

(Seal)

**STATE OF NEW MEXICO  
NOTARY PUBLIC  
GUSSIE RUTH BLACK  
COMMISSION # 1087528  
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

**LEGAL NOTICE**  
May 9, 2023

**APPLICATION FOR AUTHORIZATION TO INJECT**

NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

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**WELL NAME AND LOCATION:** Seaver SWD #1  
Located 6.8 miles northwest of Eunice, NM  
UL K, Section 10, Township 21S, Range 36E  
1,809 FSL & 1,428' FWL  
Lea County, NM

**NAME AND DEPTH OF DISPOSAL ZONE:** San Andres (4,200'– 5,300')  
**EXPECTED MAXIMUM INJECTION RATE:** 42,000 Bbls/day  
**EXPECTED MAXIMUM INJECTION PRESSURE:** 840 psi (surface)

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Additional information may be obtained by contacting Nate Alleman at 918-382-7581.  
**#00278374**

67115320

00278374

DANIEL ARTHUR  
ALL CONSULTING  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119



<b>Seaver SWD #1 - Notice of Application Recipients</b>				
<b>Entity</b>	<b>Address</b>	<b>City</b>	<b>State</b>	<b>Zip Code</b>
<b>Land &amp; Mineral Owner</b>				
Millard Deck Estate, Terry Richey Trustee Senior Vice President - Sr. Trust Officer Southwest Bank Trust Department	4800 East 42nd Street	Odessa	Texas	79762
<b>OCD District</b>				
NMOCD District 1	1625 N. French Drive	Hobbs	NM	88240
<b>Leasehold Operators</b>				
New Mexico State Land Office	310 Old Sante Fe Trail	Sante Fe	NM	87501
XTO Energy Inc. (XTO ENERGY INC.)	500 W. Illinois, Suite 100	Midland	TX	79701
ConocoPhillips Company (CONOCOPHILLIPS COMPANY)	960 Plaza Office Bldg	Bartlesville	OK	74004
Empire New Mexico LLC	2200 S. Utice Pl., Suite 150	Tulsa	OK	74114
Chevron USA Inc. (CHEVRON U S A INC) (CHEVRON USA INC)	6301 Deauville Blvd.	Midland	TX	79706
<b>Notes:</b> The table above shows the Entities who were identified as parties of interest requiring notification on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2). The names listed above in parenthesis, are the abbreviated entity names used on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2).				

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MIDLAND TX 79706-2964

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2200 S UTICA PL STE 150  
TULSA OK 74114-7015

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Tulsa OK 74119

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9414 8118 9956 2266 2757 71

XTO Energy Inc  
500 W ILLINOIS AVE STE 100  
MIDLAND TX 79701-4337

NMOCD District 1  
1625 N FRENCH DR  
HOBBS NM 88240-9273

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Tulsa OK 74119

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Southwest Bank Trust Department  
Millard Deck Estate, Terry Richey  
Senior VP - Sr. Trust Officer  
4800 E 42ND ST STE 100  
ODESSA TX 79762-7214

**Attachment 7**

Signed No Hydrological Connection Statement





Steve Drake  
V.P. Geology and Reservoir Engineering  
Goodnight Midstream, LLC  
5910 North Central Expressway, Suite 850  
Dallas, Texas 75206

RE: Goodnight Midstream, LLC Seaver SWD well permit

Lot K, Section 10, Township 21S Range 36E  
Lea County, New Mexico

Goodnight Midstream conducted a hydrogeologic investigation related to the proposed injection well. The scope of the investigation was to determine if there is any hydrologic connection between the proposed injection interval and any sources of underground drinking water.

Goodnight geologist performed an analysis of subsurface well log data. It is our conclusion that there is no evidence of faulting in the data we evaluated at the depths that are being considered. There are small scale flexures which may or may not be associated with small scale faults. None of these flexures extend above the Wolfcamp unconformity and are not seen in the Leonard intervals.

Goodnight acquired and evaluated 3D seismic to the west but does not cover the lands that this salt water disposal well is located upon. This data shows the geologic setting in the area. No faults are seen in the Artesia Group, San Andres, Glorieta, or Leonard series. The San Andres contains small scale flexures and changes in seismic velocity that may indicate karsting. These flexures and velocity anomalies are being used to target disposal reservoir opportunities. The Grayburg thickens over the San Andres sag. There is also a thickening of the Yates relative to the low in the San Andres. These stratigraphic changes do not indicate the presence of faulting and there is no communication between these intervals.

Water has been disposed into the San Andres in this area since 1966. There is a good record of pressure separation. Production from the Artesia group has proceeded without interruption or encroachment from San Andres disposal for more than 50 years. Containment and isolation from the hydrocarbon intervals would then also be isolated from any sources of fresh water above.

We see no evidence of faulting that would extend to or form a connection between the injection zone and any underground sources of drinking water.

A handwritten signature in blue ink that reads 'Steve Drake'.

Steve Drake  
V.P. Geology and Reservoir Engineering  
Goodnight Midstream, LLC

A handwritten date in blue ink that reads '4/6/2023'.

Date



7STQ3-210917-C-1080

RECEIVED: <b>9/17/21</b>	REVIEWER:	TYPE: <b>SWD</b>	APP NO: <b>pBL2126055537</b>
--------------------------	-----------	------------------	------------------------------

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Geological & Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Applicant:** Goodnight Midstream Permian, LLC **OGRID Number:** 372311  
**Well Name:** Piazza SWD #1 **API:** \_\_\_\_\_  
**Pool:** SWD; San Andres **Pool Code:** 96121

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW**

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]  
 A. Location – Spacing Unit – Simultaneous Dedication  
 NSL       NSP (PROJECT AREA)       NSP (PRORATION UNIT)       SD
- B. Check one only for [ I ] or [ II ]  
 [ I ] Commingling – Storage – Measurement  
 DHC    CTB    PLC    PC    OLS    OLM  
 [ II ] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery  
 WFX    PMX    SWD    IPI    EOR    PPR

**SWD-2458**

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.  
 A.  Offset operators or lease holders  
 B.  Royalty, overriding royalty owners, revenue owners  
 C.  Application requires published notice  
 D.  Notification and/or concurrent approval by SLO  
 E.  Notification and/or concurrent approval by BLM  
 F.  Surface owner  
 G.  For all of the above, proof of notification or publication is attached, and/or,  
 H.  No notice required

<b>FOR OCD ONLY</b>	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	Application Content Complete

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

**Note: Statement must be completed by an individual with managerial and/or supervisory capacity.**

Nate Alleman

Print or Type Name

Signature

9/16/2021  
Date

**BEFORE THE OIL CONSERVATION COMMISSION**  
 Santa Fe, New Mexico  
 Exhibit No. A-8  
**Submitted by: Goodnight Midstream Permian, LLC**  
 Hearing Date: September 23, 2024  
 Case Nos. 23614-23617, 23775,  
 24018 – 24020, 24025, 24123

918-382-7581  
Phone Number

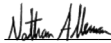
nalleman@all-llc.com  
e-mail Address

STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL  
RESOURCES DEPARTMENT

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

FORM C-108  
Revised June 10, 2003

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance  X  Disposal  
\_\_\_\_\_ Storage Application qualifies for administrative approval?  X  Yes \_\_\_\_\_ No
- II. OPERATOR:  Goodnight Midstream Permian, LLC   
ADDRESS:  5910 N Central Expressway, Suite 850, Dallas, TX 75206   
CONTACT PARTY:  Grant Adams  PHONE:  214-444-7388(0)
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? \_\_\_\_\_ Yes  X  No  
If yes, give the Division order number authorizing the project: \_\_\_\_\_
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
  1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- \*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.  
NAME  Nathan Alleman  TITLE  Regulatory Specialist - Consultant   
SIGNATURE:    DATE:  9-16-2021   
E-MAIL ADDRESS:  nalleman@all-llc.com
- XV. If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: \_\_\_\_\_

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

Application for Authorization to Inject  
 Well Name: Piazza SWD 1

**III – Well Data** (The Wellbore Diagram is included as **Attachment 1**)

A.

**(1) General Well Information:**

Operator: Goodnight Midstream Permian, LLC (OGRID No. 372311)  
 Lease Name & Well Number: Piazza SWD 1  
 Location Footage Calls: 1,847 FSL & 2,537 FWL  
 Legal Location: Unit Letter K, S9 T21S R36E  
 Ground Elevation: 3,509'  
 Proposed Injection Interval: 4,125' – 5,400'  
 County: Lea

**(2) Casing Information:**

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	17-1/2"	13-3/8"	54.5 lb./ft	1,445'	1,180	Surface	Circulation
Intermediate	12-1/4"	9-5/8"	40.0 lb./ft	5,450'	1,400	Surface	Circulation/ CBL
Tubing	N/A	5-1/2"	Composite weight string	4,100'	N/A	N/A	N/A

**(3) Tubing Information:**

5-1/2" (composite weight string) of fiberglass-coated tubing with setting depth of 4,100'

**(4) Packer Information:** Baker Hornet or equivalent packer set at 4,100'

B.

**(1) Injection Formation Name:** San Andres

**Pool Name:** SWD; SAN ANDRES

**Pool Code:** 96121

**(2) Injection Interval:** Perforated injection between 4,125' – 5,400'

**(3) Drilling Purpose:** New Drill for Salt Water Disposal

**(4) Other Perforated Intervals:** No other perforated intervals exist.

**(5) Overlying Oil and Gas Zones:** Below are the approximate formation tops for known oil and gas producing zones in the area.

- Grayburg (3,733')

**Underlying Oil and Gas Zones:** Below is the approximate formation tops for known oil and gas producing zones in the area.

- Glorieta (5,410')
- Tubb (6,810')

## V – Well and Lease Maps

The following maps are included in **Attachment 2**:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

## VI – AOR Well List

A list of the wells within the 1/2-mile AOR is included in **Attachment 2**.

There are three wells that penetrate the injection zone, one of which has been properly plugged and abandoned, while the other two wells have been constructed, and plugged back to properly isolate the San Andres. A wellbore diagram and casing information for each of these wells is also included in **Attachment 2**.

## VII – Proposed Operation

- (1) **Proposed Maximum Injection Rate:** 40,000 bpd  
**Proposed Average Injection Rate:** 25,000 bpd
- (2) A closed system will be used.
- (3) **Proposed Maximum Injection Pressure:** 825 psi (surface)  
**Proposed Average Injection Pressure:** approximately 495 psi (surface)
- (4) **Source Water Analysis:** It is expected that the injectate will consist of produced water from production wells completed in the Delaware Mountain Group (DMG), Wolfcamp, and Bone Springs formations. Analysis of water from these formations is included in **Attachment 3**.
- (5) **Injection Formation Water Analysis:** The proposed SWD will be injecting water into the San Andres formation which is a non-productive zone known to be compatible with formation water from the DMG, Wolfcamp and Bone Springs formations. Water analyses from the San Andres formation in the area are included in **Attachment 4**.

## VIII – Geologic Description

The proposed injection interval includes the San Andres formation from 4,125 – 5,400 feet. This formation consists of interbedded carbonate rocks including dolomites and limestones. Several thick intervals of porous and permeable carbonate rock capable of taking water are present within the subject formation in the area.

The deepest underground source of groundwater (USDW) is the Rustler formation at a depth of approximately 1,345 feet. Water well depths in the area range from approximately 195 – 213 feet below ground surface.

## **IX – Proposed Stimulation Program**

A small cleanup acid job may be used to remove mud and drill cuttings from the formation. However, no other formation stimulation is currently planned.

## **X – Logging and Test Data**

Logs will be submitted to the Division upon completion of the well.

## **XI – Fresh Groundwater Samples**

Based on a review of data from the New Mexico Office of the State Engineer, 9 groundwater wells are located within 1 mile of the proposed SWD location. As such two of the groundwater wells located within one mile have been sampled (CP-01696 POD 1 on 8/26/2021 and CP-01039 POD 1 on 9/9/2021).

A water well map, details of water wells within 1-mile, and water sampling results for CP-01696 POD 1 are included in **Attachment 5**. Water sampling results for CP-01039 POD 1 will be provided to NMOCD once they are received from the lab.

## **XII – No Hydrologic Connection Statement**

No faulting is present in the area that would provide a hydrologic connection between the injection interval and overlying USDWs. Additionally, the casing program has been designed to ensure there will be no hydrologic connection between the injection interval and overlying USDWs.

## **XIII – Proof of Notice**

A Public Notice was filed with the Hobbs News-Sun newspaper and an affidavit is included in **Attachment 6**.

A copy of the application was mailed to the OCD District Office, landowner, and leasehold operators within 1/2-mile of the proposed SWD location. A list of the recipients, as well as delivery confirmations, are included in **Attachment 6**.



Side 2

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

# Attachments

**Attachment 1:** C-102 & Wellbore Diagram

**Attachment 2:** Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

**Attachment 3:** Source Water Analyses

**Attachment 4:** Injection Formation Water Analyses

**Attachment 5:** Water Well Map and Well Data

**Attachment 6:** Public Notice Affidavit and Notice of Application Confirmations

**Attachment 1**

- C-102
- Wellbore Diagram

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

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

Form C-102
Revised August 1, 2011
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.

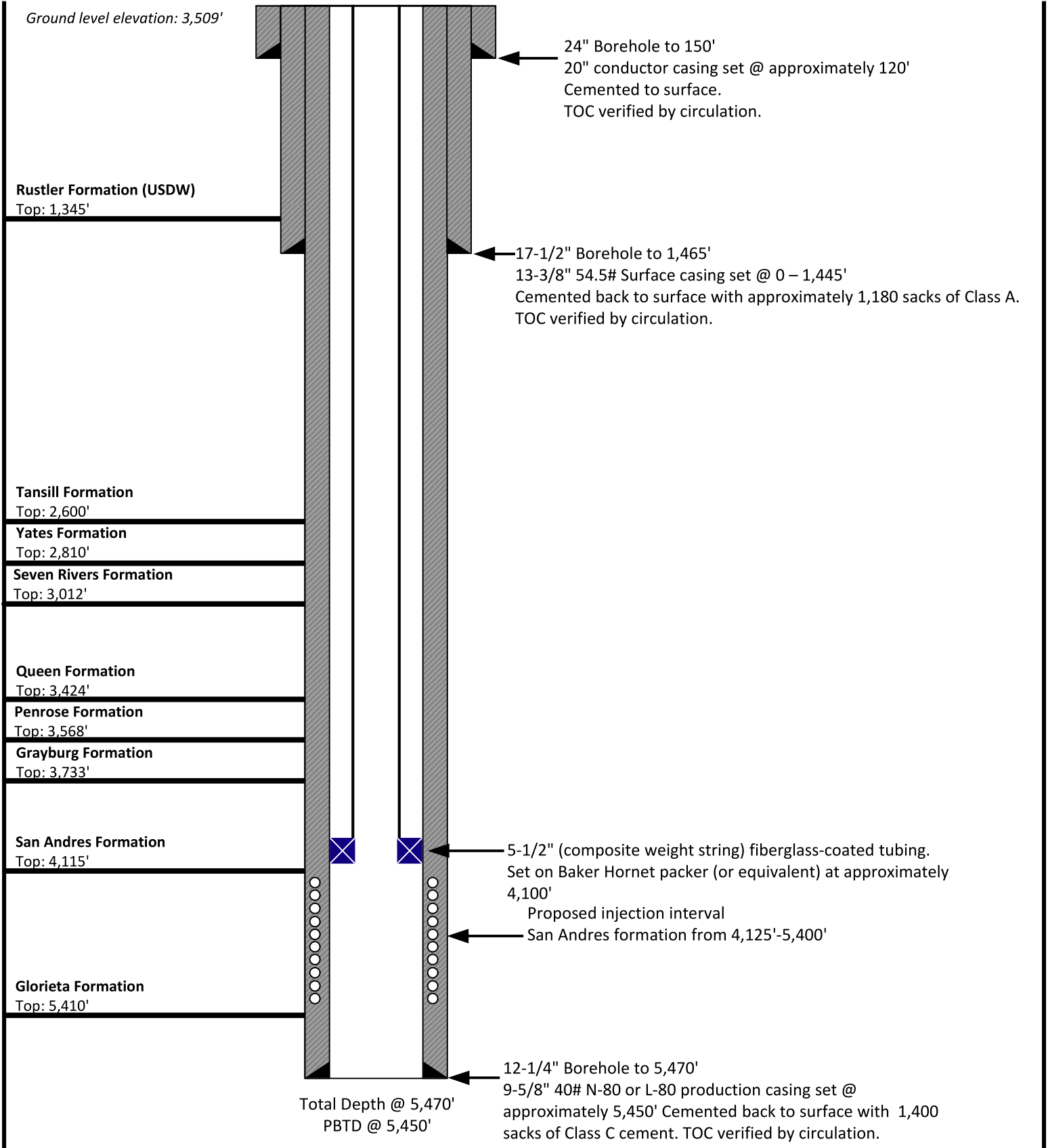
Bottom Hole Location If Different From Surface

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. Includes Dedicated Acres, Joint or Infill, Consolidated 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.

Survey plat diagram showing well location (PIAZZA SWD #1) and acreage dedication. Includes OPERATOR CERTIFICATION by Nathan Alleman and SURVEYORS CERTIFICATION by James E. Tompkins. Includes a circular surveyor seal for James E. Tompkins, Registered Professional Land Surveyor, No. 14729.

C:\Users\thamanez\Desktop\FH\WTC DWG\54924-ALL Consulting\PIAZZA SWD\_Aug9/1/2021\_4:19 PM.FHERNANDEZ



NOT TO SCALE

Cement volumes include 25% excess.

Proposed Maximum Injection Rate: 40,000 BPD

Prepared by:

Prepared for:

Drawn by: Joshua Ticknor

Project Manager:  
Dan Arthur

Date: 9/14/2021

**Goodnight Midstream Permian, LLC**  
Piazza SWD #1  
API# TBD  
1,874' FSL & 2,537' FWL, Unit K of Sec 9-T21S-R36E  
Lea County, New Mexico



## HORNET Packer

Product Family No. H64682

## HORNET EL Packer

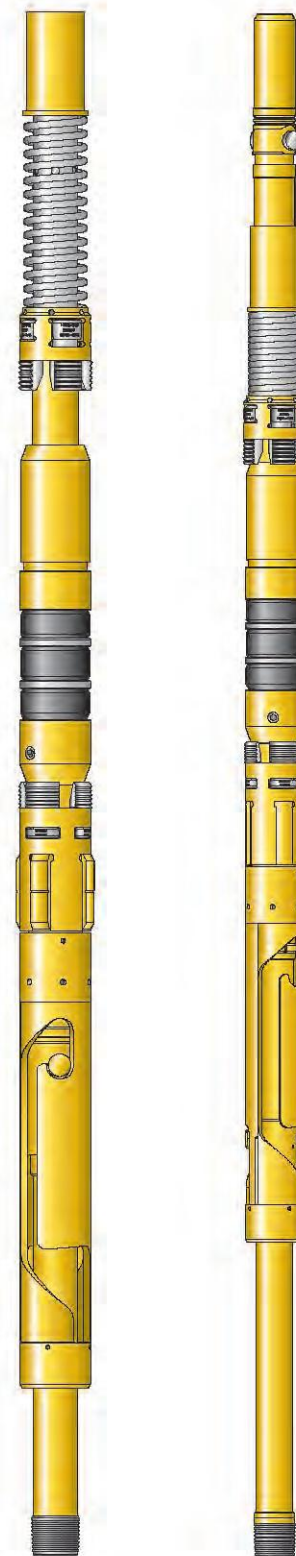
Product Family No. H64683

The mechanically set HORNET™ packer offers ease of operation with quarter-turn right to set and release. Converting it for wireline-setting applications is simple and inexpensive. The HORNET packer provides for landing in compression, tension, or neutral positions. Every component from the jay track, to the internal bypass, to the packing-element system and the upper slip assembly has been developed to ensure the HORNET's setting and releasing reliability.

The HORNET EL packer is run and set on electric line using an E-4™ (Product Family No. H43702) with a slow-set power charge or a J™ setting tool (Product Family No. H41371) and a special wireline adapter kit. An L-10™ type on/off seal nipple is run on top of the packer to connect the tubing to the packer and to house a blanking plug when the packer is used as a temporary bridge plug.

### Features and Benefits

- Upper Slip Assembly:
  - Thoroughly tested across API minimum to maximum casing ID tolerances for each specified casing weight, for setting and releasing reliability
  - Slip-wicker configuration providing bidirectional-load support with solid upper cone to support highest tensile loads
  - Staged-release action eliminates high-overpull requirement
  - Minimal set-down weight required to anchor slips
- Internal Bypass Seal:
  - Durable bypass seal design provides sealing after unloading, under differential pressures
  - No O-ring sealing system
- Packing Element System:
  - Fully tested to combined ratings at the API's maximum ID tolerance
  - Patented enhancements to control overboost
  - High-performance, three-piece element system
- Lower Slip and Jay Assembly:
  - Slips and drag blocks tested to maximum API tolerance ID for positive set and ease of release
  - One-quarter-turn right setting and releasing action
  - Packoff of packing elements with applied tension or compression
  - Spacing in jay ensures opening of internal bypass, before slip releasing action begins—important to both ease of release and safety
  - Automatically returns to running position



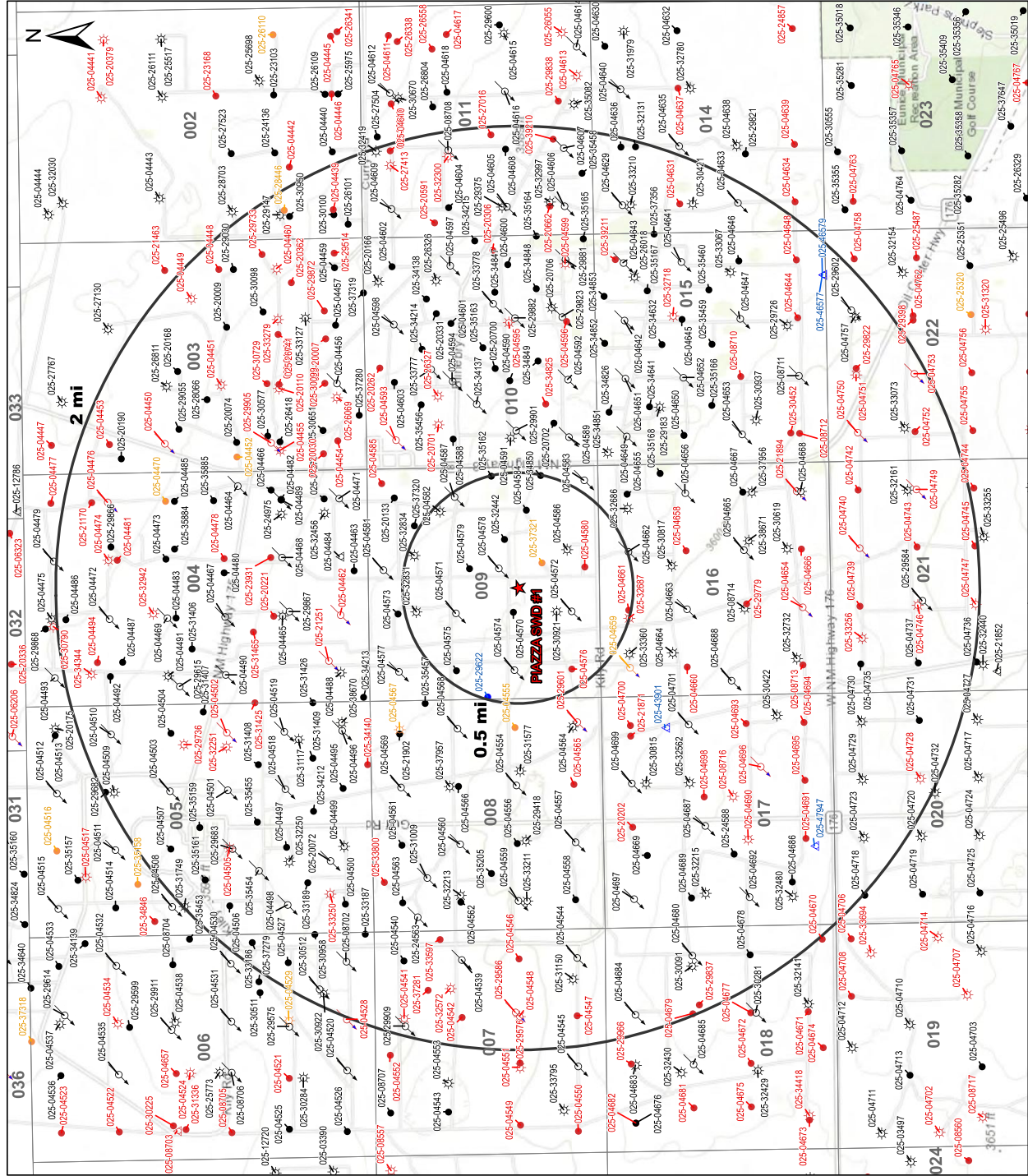
HORNET Packer  
Product Family  
No. H64682

HORNET EL Packer  
Product Family  
No. H64683

## Attachment 2

### Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-mile Well Detail List
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map



### Legend

- ★ Proposed SWD
- ☆ Gas, Active (113)
- ⊙ Gas, Plugged (51)
- ⊙ Gas, Temporarily Abandoned (2)
- ⊙ Injection, Active (109)
- ⊙ Injection, Plugged (19)
- ⊙ Injection, Temporarily Abandoned (1)
- Oil, Active (176)
- Oil, New (1)
- Oil, Plugged (128)
- Oil, Temporarily Abandoned (10)
- △ Salt Water Injection, Active (3)
- △ Salt Water Injection, New (4)
- △ Salt Water Injection, Plugged (1)

Source Info: NMOC O&G Wells updated 8/19/2021  
(<https://www.emnrd.nm.gov/ocd/ocd-data/ftp-server/>)

## O&G Wells Area of Review

### PIAZZA SWD #1 Lea County, New Mexico

Prepared for:	
Prepared by:	
Proj Mgr:	September 02, 2021
Mappped by:	Ben Boekelmann

GOODNIGHT CONSULTING

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P. Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

2 Miles

0 0.5 1 2 Miles



### AOR Tabulation for Piazza SWD #1 (Injection Interval: 4,125' - 5,400')

Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth	Penetrate Inj. Zone?
ERNEST C ADKINS #013	30-025-32834	Gas	APACHE CORPORATION	2/26/1995	B-09-21S-36E	3,700	No
ERNEST C ADKINS #012	30-025-32442	Oil	APACHE CORPORATION	4/2/1994	J-09-21S-36E	3,700	No
ERNEST C ADKINS #009	30-025-04586	Gas	APACHE CORPORATION	12/4/1953	O-09-21S-36E	3,705	No
ERNEST C ADKINS #005	30-025-04582	Gas	APACHE CORPORATION	1/19/1936	H-09-21S-36E	3,895	No
EUNICE MONUMENT SOUTH UNIT #461	30-025-29621	Plugged	CHEVRON U S A INC	5/4/1986	I-09-21S-36E	(Plugged) 5,000	Yes
EUNICE MONUMENT SOUTH UNIT #711	30-025-34850	Oil	Empire New Mexico LLC	4/11/2000	P-09-21S-36E	3,940	No
MEYER BELL RAMSAY COM #005	30-025-30921	Gas	Petroleum Exploration Company Ltd., Limited P	11/12/1992	N-09-21S-36E	3,702	No
MEYER BELL RAMSAY COM #006	30-025-32831	Gas	Petroleum Exploration Company Ltd., Limited P	1/25/1995	C-09-21S-36E	4,000	No
EUNICE MONUMENT SOUTH UNIT #299	30-025-04571	Injection	XTO ENERGY, INC	2/20/1935	F-09-21S-36E	3,870	No
EUNICE MONUMENT SOUTH UNIT #301	30-025-04587	Injection	XTO ENERGY, INC	9/29/1957	H-09-21S-36E	3,900	No
EUNICE MONUMENT SOUTH UNIT #300	30-025-04579	Oil	XTO ENERGY, INC	4/24/1935	G-09-21S-36E	3,905	No
EUNICE MONUMENT SOUTH UNIT #339	30-025-04576	Plugged	XTO ENERGY, INC	2/17/1987	M-09-21S-36E	(Plugged) 3,906	No
EUNICE MONUMENT SOUTH UNIT #298	30-025-04575	Oil	XTO ENERGY, INC	9/27/1934	E-09-21S-36E	3,920	No
EUNICE MONUMENT SOUTH UNIT #322	30-025-04574	Oil	XTO ENERGY, INC	7/23/1934	L-09-21S-36E	3,921	No
EUNICE MONUMENT SOUTH UNIT #363	30-025-04661	Plugged	Empire New Mexico LLC	5/12/1935	C-16-21S-36E	(Plugged) 3,892	No
EUNICE MONUMENT SOUTH UNIT #695	30-025-35162	Oil	XTO ENERGY, INC	10/12/2000	I-09-21S-36E	3,930	No
EUNICE MONUMENT SOUTH UNIT #320	30-025-04578	Injection	XTO ENERGY, INC	1/22/1935	J-09-21S-36E	3,940	No
EUNICE MONUMENT SOUTH UNIT #340	30-025-04572	Injection	XTO ENERGY, INC	6/2/1935	N-09-21S-36E	3,943	No
EUNICE MONUMENT SOUTH UNIT #321	30-025-04570	Oil	XTO ENERGY, INC	11/3/1934	K-09-21S-36E	3,958	No
EUNICE MONUMENT SOUTH UNIT #341	30-025-04580	Plugged	XTO ENERGY, INC	7/3/1935	O-09-21S-36E	(Plugged) 3,967	No
EUNICE MONUMENT SOUTH UNIT #462	30-025-29622	Oil	Empire New Mexico LLC	2/7/1987	L-09-21S-36E	4,998	Yes
EUNICE MONUMENT SOUTH UNIT #713	30-025-37321	Oil	XTO ENERGY, INC	9/9/2005	O-09-21S-36E	4,532	Yes
EUNICE MONUMENT SOUTH UNIT #319	30-025-04584	Oil	XTO ENERGY, INC	4/1/1936	I-09-21S-36E	3,890	No
SKELLY B STATE COM #004	30-025-32687	Plugged	CONOCOPHILLIPS COMPANY	10/4/1994	C-16-21S-36E	(Plugged) 3,730	No

Notes:

### Casing Information for Wells Penetrating the Piazza SWD 1 Injection Zone

Well Name	Surface Casing						Intermediate Casing					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole size	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
EUNICE MONUMENT SOUTH UNIT #461	368'	16"	Surface	Circulation	500	20"	2668	11.75"	Surface	Circulation	1000	14.75"
EUNICE MONUMENT SOUTH UNIT #713	1320'	8.625"	Surface	Circulation	655	12.25"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #462	416'	16"	Surface	Circulation	475	20"	2700	11.75"	Surface	Circulation	900	14.75"

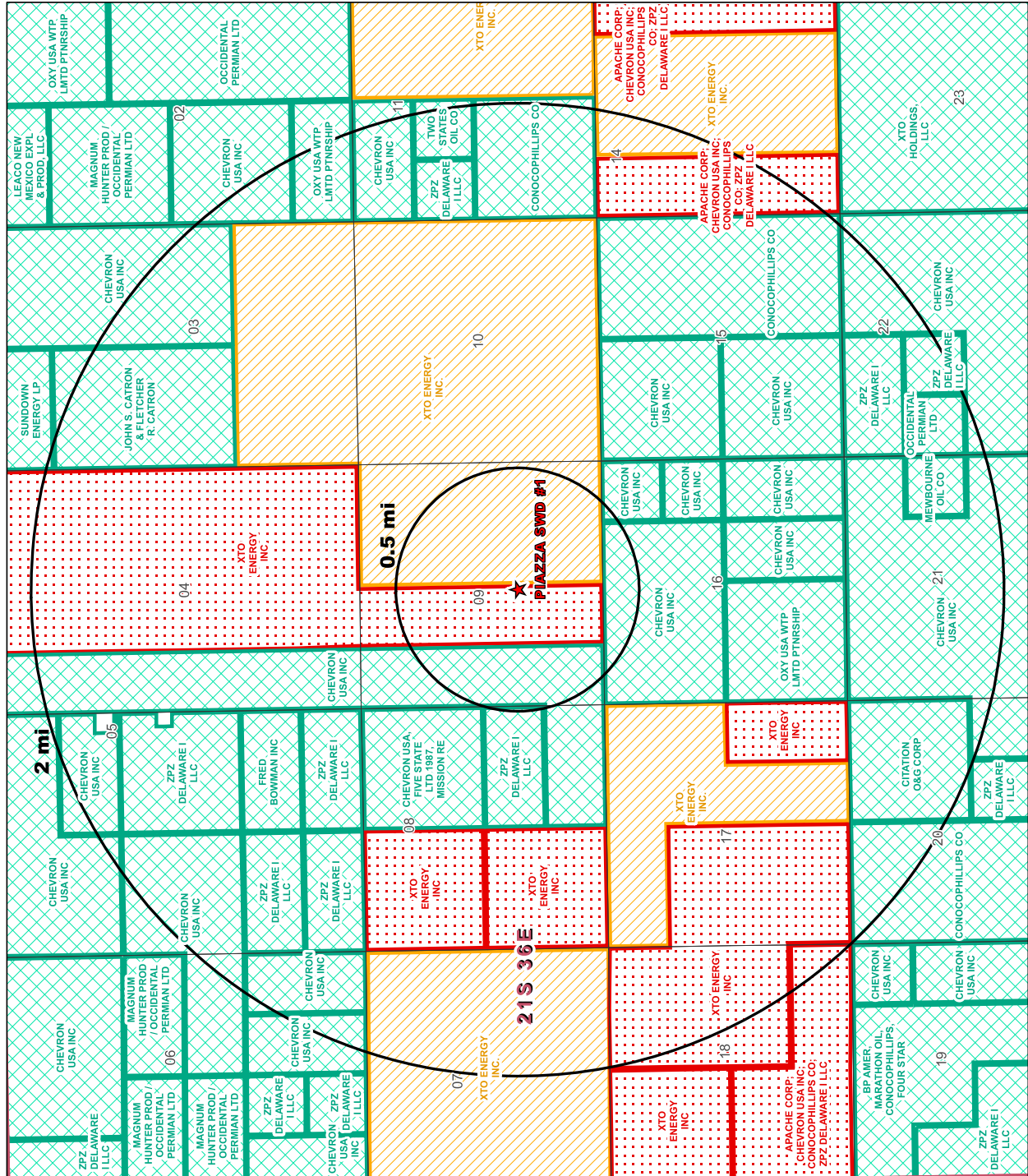
Well Name	Production Casing & Intermediate II Casing						Production Casing II					
	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
EUNICE MONUMENT SOUTH UNIT #461	2668'	8.625"	Surface	Circulation	700	10.625"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #713	4226'	5.5"	Surface	Circulation	222	7.875"	N/A	N/A	N/A	N/A	N/A	N/A
EUNICE MONUMENT SOUTH UNIT #462	4325'	8.625"	Surface	Calculated	850	10.625"	4200	5.5"	Surface	Circulation	760	

Well Name	Plugging Information
EUNICE MONUMENT SOUTH UNIT #461	Bottom Plug @ 5051'-4159' (36 cu ft Zonite), B/Salt & Shoe Plug @ 2549' - 2718' (57 cu ft Zonite) Rustler Plug @ 1325' - 1425' (38 cu ft Zonite), Shoe/FW plug @ 308' - 418' (38 cu ft Zonite), Top Plug 3' - 33' (11 cu ft Zonite).
EUNICE MONUMENT SOUTH UNIT #713	TD plugged back to 4020 with a CIBP (20' CMT on Top)
EUNICE MONUMENT SOUTH UNIT #462	CIBP plated at 4,260'



**Legend**

- ★ Proposed SWD
- NMSLO Mineral
- BLM Mineral Leases
- Private Mineral
- Unleased Minerals - Private



<b>Mineral Lease Area of Review</b>	
<b>PIAZZA SWD #1</b> Lea County, New Mexico	
Proj Mgr: Nate Alleman	September 02, 2021
Mapped by: Ben Bockelmann	
Prepared for: 	

Source Info: BLM Mineral Leases (<https://catalog.data.gov/dataset/blm-new-mexico-mineral-ownership>) & NMSLO O&G Leases (<http://www.nmstatelands.org/maps/gis/data-download/>)



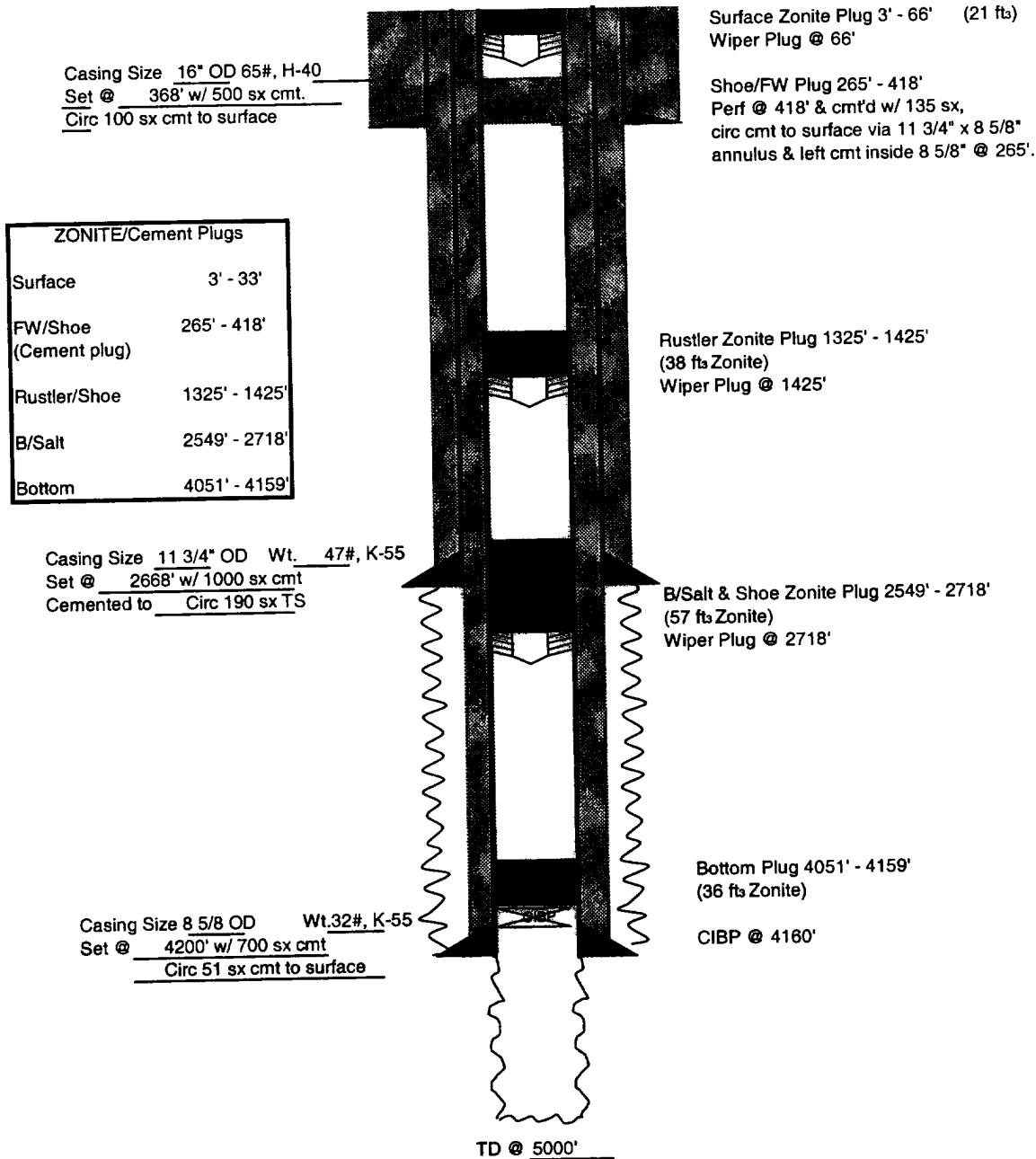
**BENTERRA** Corporation  
Mid-Continent Region

**P&A**

WELL NAME: Eunice Monument South Unit #461-WSW  
 API NUMBER: 30-025-29621  
 COORDINATES: 1540' FSL & 1305' FEL  
 SEC/TWN/RNG: Sec 9 - T21S - R36E  
 DRILLED: 1986

OPERATOR: Chevron  
 COUNTY/STATE: Lea, NM  
 DATE: 10/8/02  
 BY: DCD/CRS  
 ELEVATION: \_\_\_\_\_

KB 18' GL



ZONITE/Cement Plugs	
Surface	3' - 33'
FW/Shoe (Cement plug)	265' - 418'
Rustler/Shoe	1325' - 1425'
B/Salt	2549' - 2718'
Bottom	4051' - 4159'

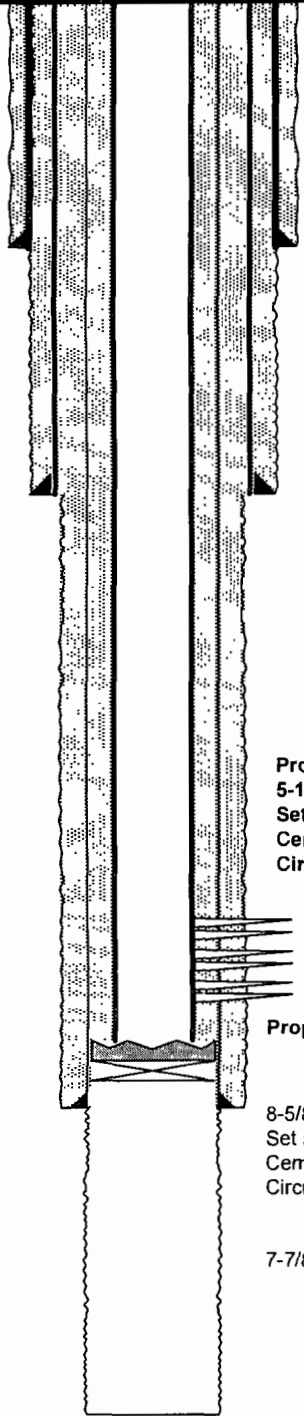
Formation Tops:	
Rustler	1375'
T/Salt	1466'
B/Salt	2608'
Queen	3427'
Penrose	3558'
EMSU Unit	3702'
Grayburg zone 1	3749'
Grayburg Zone 2	3783'
Grayburg Zone 3	3844'
Grayburg Zone 4	3882'
Grayburg Zone 5	3936'
Grayburg Zone 6	3992'
San Andres	4002'

# XTO ENERGY



Well: EMSU 462 WSW  
 Location: Section 9-21S-36E  
 2590' FSL & 50' FWL  
 County: Lea  
 Elevation: 3590' GL 3607' KB

WI:  
 NRI:  
 Spud: 7/87  
 State: New Mexico



**PROPOSED**

**CURRENT STATUS:**  
Shut-in

**PRODUCTION TUBING:**  
None

16" 65 ppf,  
 Set at 416'.  
 Cemented with 472 sx.  
 Circulated

Int. Csg: 11 3/4", 54 ppf  
 Set @ 2700'.  
 Cmt'd w/ 1100 sx.  
 Circulated

**Proposed Production Casing:**  
 5-1/2" 17ppf  
 Set at 4200'.  
 Cemented with 760 sx.  
 Circulated.

Grayburg  
**Proposed Perfs:**  
 3794' - 3900'

**Proposed CIBP at 4260'**

8-5/8" 32 ppf  
 Set at 4315'.  
 Cemented with 850 sx.  
 Circulated.

7-7/8" openhole

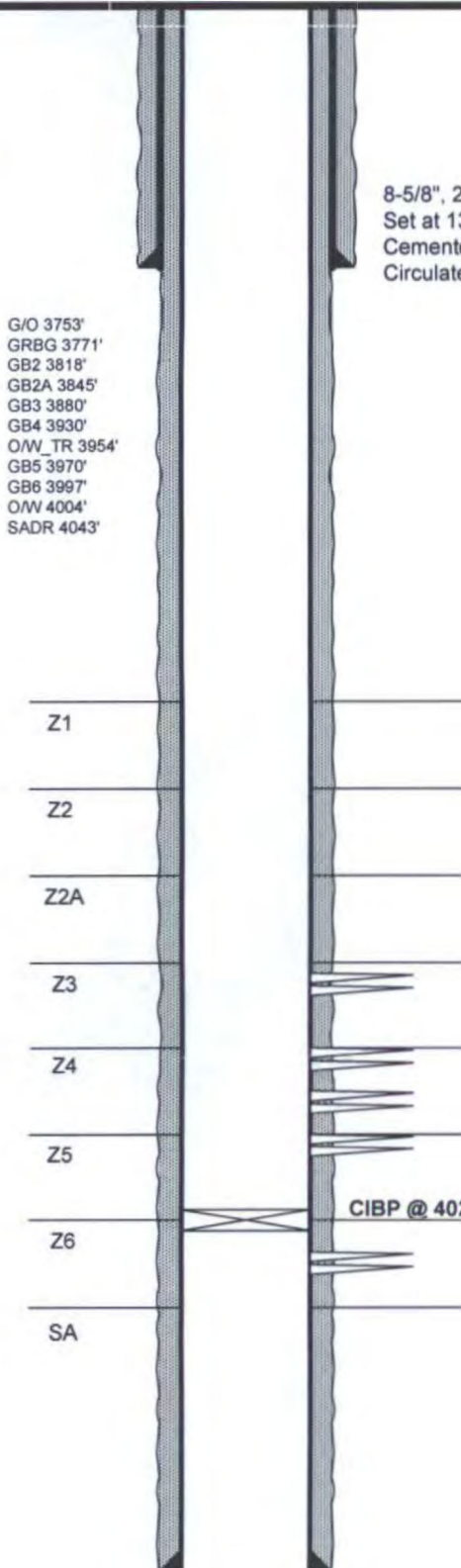
TD 4998'

PREPARED BY: JWP

DATE: 11/17/2011

Well: EMSU 713  
Location: Section 9-21S-36E  
1310' FSL & 2205' FEL  
County: Lea  
Elevation: 3586' GL 3603' KB

API # 30-025-37321  
Spud: 9/2005  
State: New Mexico



8-5/8", 24#  
Set at 1319'.  
Cemented with 625 sx.  
Circulated

G/O 3753'  
GRBG 3771'  
GB2 3818'  
GB2A 3845'  
GB3 3880'  
GB4 3930'  
O/W\_TR 3954'  
GB5 3970'  
GB6 3997'  
O/W 4004'  
SADR 4043'

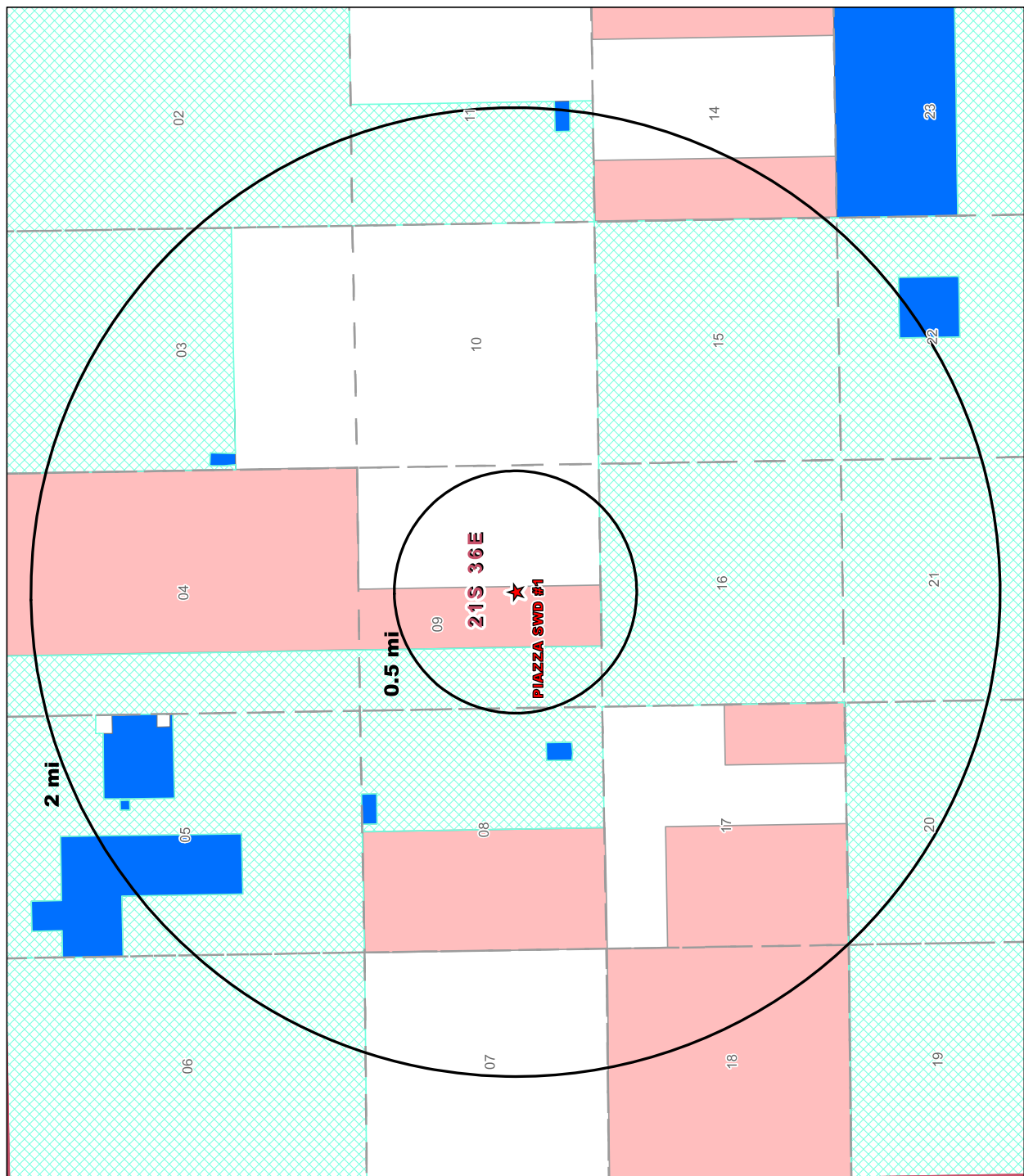
Perfs:  
Z1 - None  
Z2 - None  
Z2A - None  
Z3 - 3885-3904'  
Z4 - 3928-40', 3952-60'  
Z5 - 3970-80'  
Isolated by CIBP @ 4020'  
Z6 - 4042-52'

CIBP @ 4020'

5-1/2" 17 #,  
Set at 4226'.  
Cemented with 1250 sx.  
Circulated  
Float collar @ 4189'

PREPARED BY: Ryan Radicioni

DATE: 6/2/09

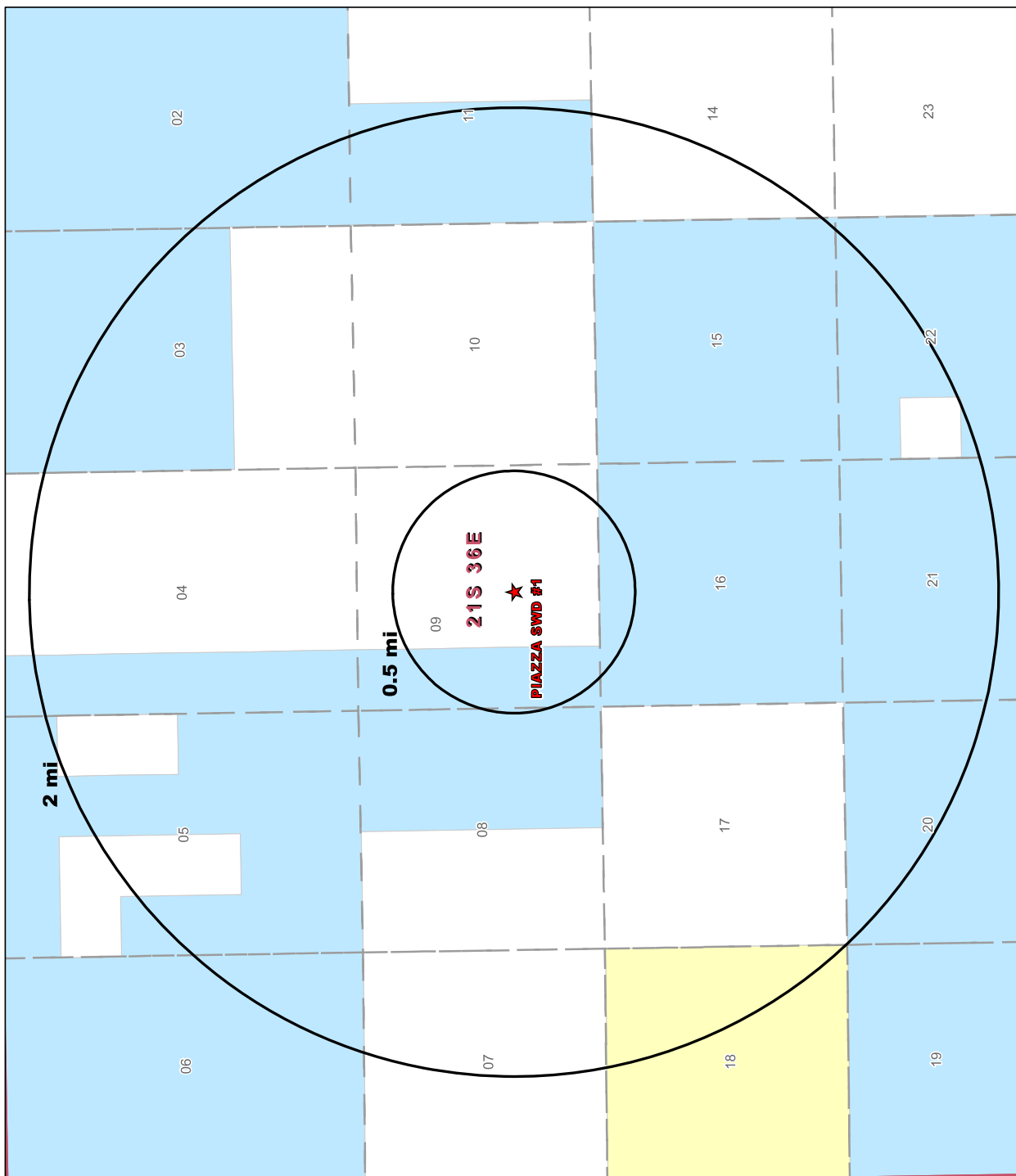


**Legend**

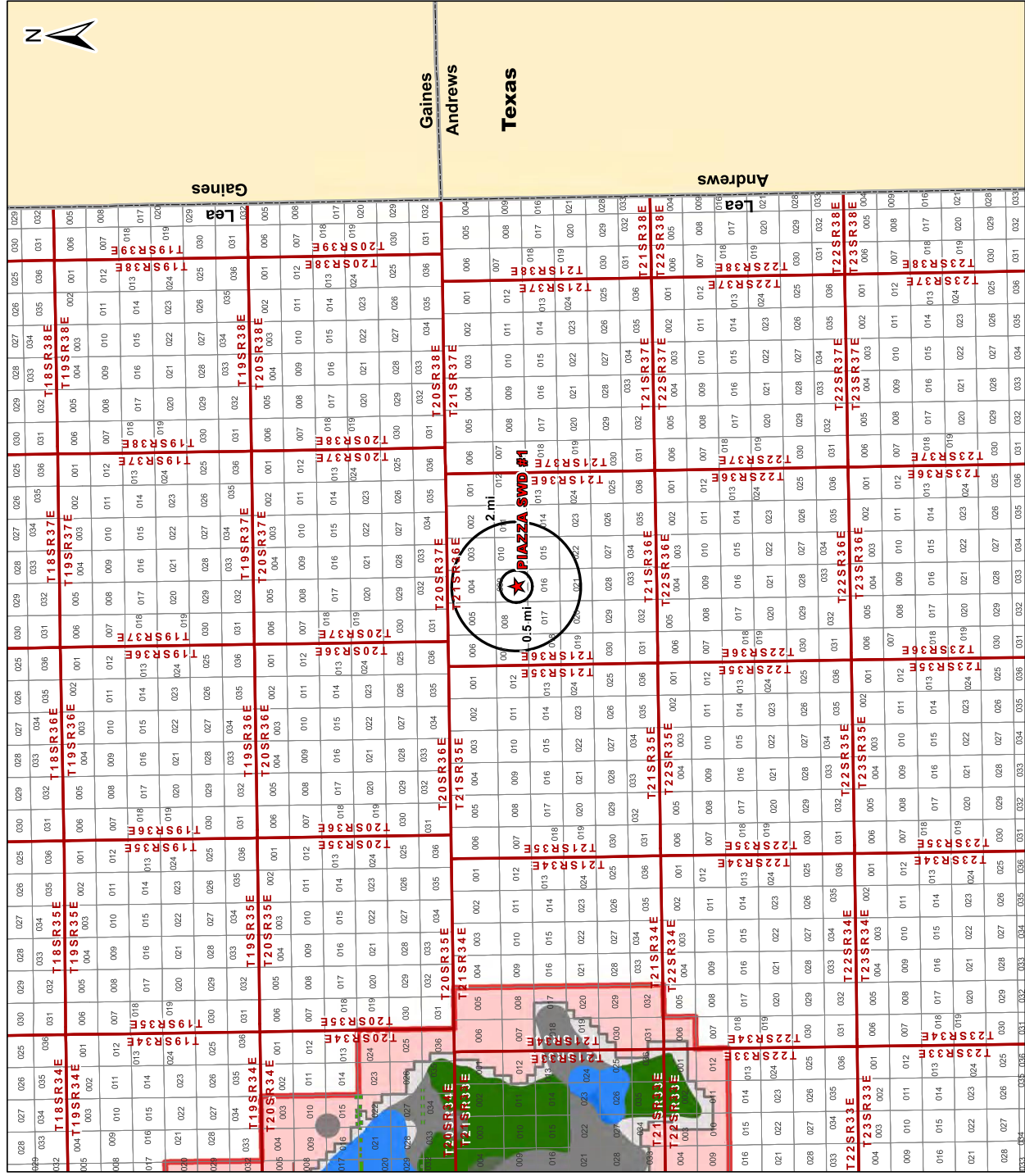
- ★ Proposed SWD
  - Private minerals
  - Subsurface minerals (NMSLO)
  - Surface and Subsurface minerals (NMSLO)
- Mineral Ownership**
- All minerals are owned by U.S. (BLM)

<b>Mineral Ownership Area of Review</b>	
<b>PIAZZA SWD #1</b> Lea County, New Mexico	
Proj Mgr: Nate Alleman	September 02, 2021
Mapped by: Ben Bockelmann	
Prepared for: <b>GOODNIGHT</b> <small>ENERGY SERVICES</small>	Prepared by: <b>ALLI CONSULTING</b>

Source Info: BLM Mineral Ownership (<https://catalog.data.gov/dataset/blm-new-mexico-mineral-ownership>) & NMSLO Ownership (<http://www.nmstateands.org/maps-gis/gis-data-download/>)







- Legend**
- ★ Proposed SWD
  - 1/2 mi buffer
  - Ore Type - Measured
  - Ore Type - Indicated
  - Ore Type - Inferred
  - KPLA
  - SOPA
  - Drill Islands
  - Status
  - Approved
  - Denied

**Potash Leases**  
**Area of Review**

**PIAZZA SWD #1**  
 Lea County, New Mexico

Prepared for: **GOODNIGHT**  
 FERTILIZERS

Prepared by: **ALLI CONSULTING**

Proj Mgr: Dan Anthur  
 September 13, 2021  
 Mapped by: Ben Bockelmann

Source Info: BLM CFO Potash (https://www.blm.gov/shapefiles/cfo/catsbed\_spatial\_data.html)

Released to Imaging: 3/4/2022 2:46:40 PM 12 Miles

**Attachment 3**

Source Water Analyses

Source Water Formation Analysis  
 Goodnight Midstream Permian, LLC - Bone Spring, Wolfcamp & Delaware Formations

Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgs	Ftgs	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
UCHO UNIT #012H	3002541564	32.384037	-103.4833745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND	109,808	66,985	281	1,024
UCHO UNIT #013H	3002541565	32.3841743	-103.4833745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND	139,905	85,081	293	740
UCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	184,420	115,274	268	760
UCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON	266,468	167,562	366	-
UCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON	224,384	169,000	366	-
UCHO 21 FEDERAL #002H	3002540626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM		DELAWARE-BRUSHY CANYON	169,000	169,000	37	340
UCHO UNIT #012H	3002541564	32.384037	-103.4833745	20	22S	34E	A	275N	575E	Lea	NM		BONE SPRING 2ND SAND	29,436	68,000	427	920
UCHO UNIT #013H	3002541565	32.3841743	-103.4833745	20	22S	34E	A	225N	575E	Lea	NM		BONE SPRING 2ND SAND	77,000	82,000	305	1,660
UCHO UNIT #014H	3002541571	32.3840523	-103.4984589	20	22S	34E	D	150N	660W	Lea	NM		BONE SPRING 2ND SAND	82,000	82,000	220	624
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	Lea	NM		BONE SPRING 2ND SAND	158,147	96,378	232	710
MOBIL LEA STATE #001	3002531696	32.5999107	-103.5331573	2	20S	34E	K	1800S	1980E	Lea	NM	LEA NORTHEAST	DELAWARE	152,064	102,148	404	691
MOBIL LEA STATE #003	3002532105	32.5976906	-103.5367584	2	20S	34E	M	990S	870W	Lea	NM	LEA NORTHEAST	DELAWARE	296,822	215,237	143	294
MOBIL LEA STATE #005	3002532466	32.6028633	-103.5367584	2	20S	34E	E	2440N	870W	Lea	NM	LEA NORTHEAST	DELAWARE	340,838	245,270	229	147
LEA UNIT #004H	3002502424	32.5895081	-103.524559	11	20S	34E	H	1980N	660E	Lea	NM	LEA	BONE SPRING	29,436	16,720	634	1,142
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	Lea	NM	LEA	DELAWARE	214,787	132,700	208	1,816
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	Lea	NM	LEA	BONE SPRING	15,429	-	-	-
LEA UNIT #001	3002502427	32.5858536	-103.520256	12	20S	34E	L	1980S	660W	Lea	NM	LEA	BONE SPRING	180,701	108,300	1,016	670
LEA UNIT #005	3002502429	32.5858536	-103.5116501	12	20S	34E	J	1980S	1980E	Lea	NM	LEA	BONE SPRING	202,606	118,100	5,196	992
LEA UNIT #008	3002502431	32.5927162	-103.5116733	12	20S	34E	B	810N	1980E	Lea	NM	LEA	BONE SPRING	121,800	-	-	-
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM	LEA	BONE SPRING	147,229	89,640	108	1,038
MONK 21 STATE COM #004H	3002542193	32.47107672	-103.4727296	21	21S	34E	B	200N	1980E	Lea	NM		BONE SPRING 2ND SAND	261,089	160,264	122	425
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	Lea	NM		BONE SPRING 2ND SAND	184,233	112,775	488	425
H L VINSON #001	3002503587	33.5251312	-103.237999	22	09S	36E	A	660N	660E	Lea	NM		WOLF CAMP	103,000	207	439	-
PHILLIPS STATE #001	3002503659	33.3458824	-103.2939529	22	11S	36E	N	660S	1980W	Lea	NM	CINDY	WOLF CAMP	78,885	66,400	187	690
STATE CA #001	3002503743	32.902153	-103.329828	23	16S	36E	O	660S	1980E	Lea	NM	LOVINGTON	WOLF CAMP	167,968	102,800	354	875
SINCLAIR STATE #002	3002503123	32.7386246	-103.4561005	21	18S	35E	A	660N	660E	Lea	NM	VACUUM SOUTH	WOLF CAMP	60,950	33,568	1,087	3,049

**Attachment 4**

Injection Formation Water Analyses

Goodnight Midstream Permian, LLC - San Andres Formation

Wellname	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgs	Ftgew	County	State	Field	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
SIMMONS #001	3002510070	32.4232674	-103.1821976	5	22S	37E	G	1760N	1760E	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	78,653	46,510	580	2,138
C P FALBY B FEDERAL #004	3002510106	32.4045296	-103.1914597	8	22S	37E	L	1980S	660W	LEA	NM	CARY	SAN ANDRES	80,540	43,500	755	5,959
C P FALBY A FEDERAL #003	3002510118	32.4081421	-103.1871872	8	22S	37E	F	1980N	1980W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	59,766	5,312	1,620	2,103
C P FALBY A FEDERAL #004	3002510120	32.4081345	-103.1914673	8	22S	37E	E	1980N	660W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	10,925	5,312	488	2,103
PENROSE #002	3002510146	32.4078712	-103.1739807	9	22S	37E	E	2086N	776W	LEA	NM	EUNICE SOUTHWEST	SAN ANDRES	64,895	38,010	488	2,103
LOU WORTHAM #020	3002510216	32.411808	-103.1401749	11	22S	37E	D	660N	660W	LEA	NM	EUNICE SOUTH	SAN ANDRES	10,947	6,527	20	2,103
LOU WORTHAM #005	3002523606	32.4109001	-103.1369629	11	22S	37E	C	990N	1650W	LEA	NM	EUNICE SOUTH	SAN ANDRES	18,587	9,460	13	2,511
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	9,192	4,443	12	1,496
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,868	9,040	24	1,111
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	13,828	7,298	18	1,389
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,957	8,867	18	406
HUGH COI #013	3002523275	32.3982162	-103.1396637	14	22S	37E	D	330N	820W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,215	6,495	2,529	191
LOU WORTHAM #006	3002523756	32.4072723	-103.1410828	11	22S	37E	E	2310N	380W	LEA	NM	EUNICE SOUTH	SAN ANDRES	14,824	7,018	2,344	207
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT PADDOCK	SAN ANDRES	65,365	36,905	560	1,460
THEODORE ANDERSON #002	3002506139	32.5785942	-103.2758102	17	20S	37E	C	660N	1980W	Lea	NM		SAN ANDRES	67,245	67,245	564	489
E M E SWD #008	3002506017	32.5895042	-103.2725601	8	20S	37E	G	1980N	2310E	LEA	NM	MONUMENT	SAN ANDRES	65,361	36,900	560	1,460

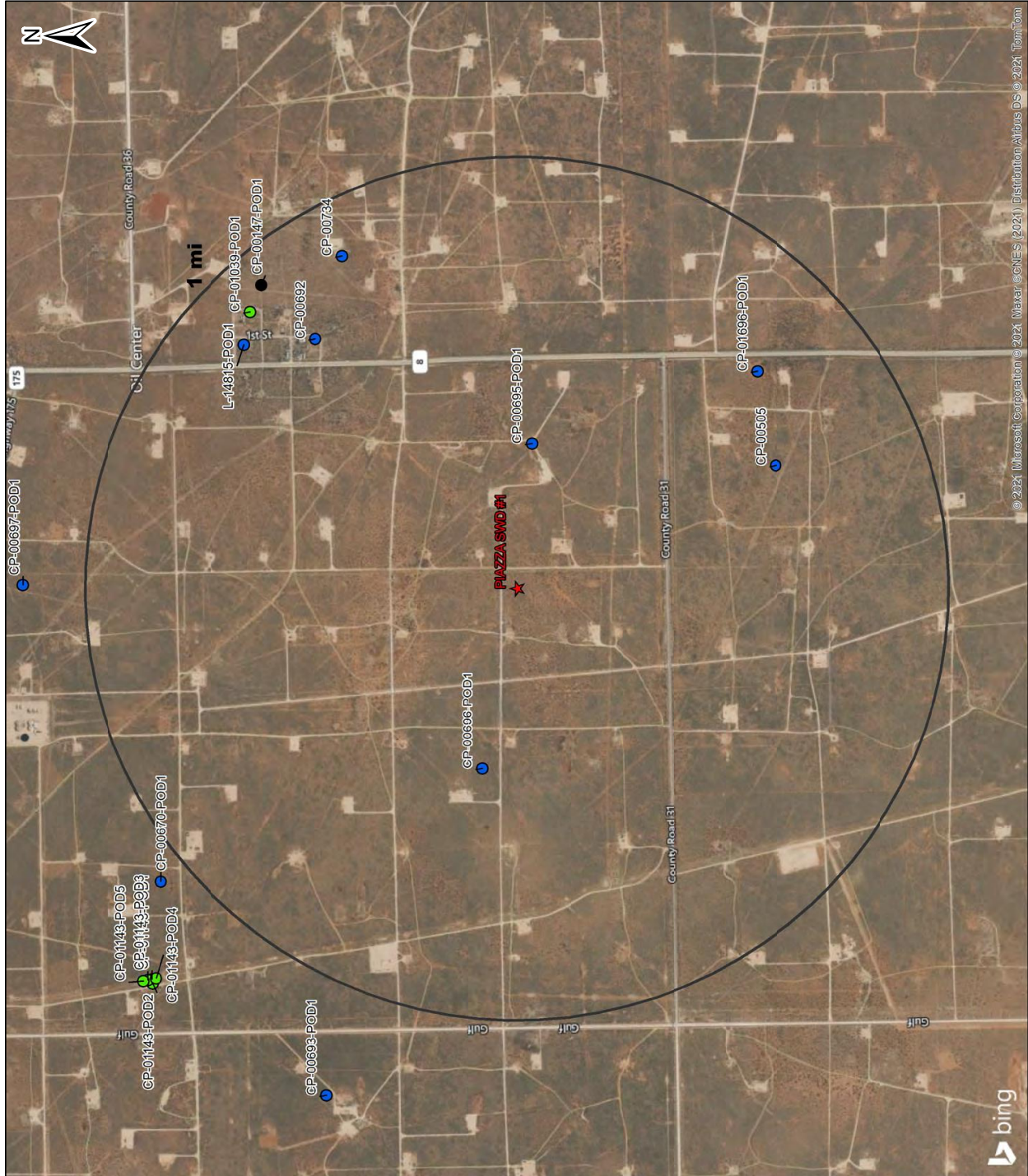


**Attachment 5**

Water Well Map and Well Data

**Legend**

- ★ Proposed SWD
- NMOSE Points of Diversion**
- Active (10)
- Pending (7)
- Change Location of Well (0)
- Capped (0)
- Plugged (0)
- Incomplete (0)
- Unknown (1)



SourceInfo: [https://gis.ose.state.nm.us/arcgis/rest/services/WatersPod/OSE\\_PODs/MapServer/0](https://gis.ose.state.nm.us/arcgis/rest/services/WatersPod/OSE_PODs/MapServer/0)

<b>Water Wells Area of Review</b>	
<b>PIAZZA SWD #1</b> Lea County, New Mexico	
Proj Mgr: Nate Alleman	September 16, 2021
Mapped by: Ben Bockelmann	
Prepared for: <b>GOODNIGHT</b> INDUSTRIALS	Prepared by: <b>ALLI CONSULTING</b>

Water Well Sampling Rationale						
Select Energy Services - Piazza SWD #1						
SWD	Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
Piazza SWD #1	CP 01039 POD1	Jerauld Anderson	575-631-1922	Domestic	Yes	32.500083, -103.259567 Sampled on 9/9/2021
Piazza SWD #1	CP 00692	W. L. Van Noy	P.O. Box 7 Oil Center, NM 88266	Domestic	No	Two water wells are already being sampled.
Piazza SWD #1	CP 00505	Snyder Ranches LTD.	P.O. Box 726 Lovington, NM 88260 Phone: 575-602-8863	Livestock Watering	No	Owner was unaware of a well at this location, believes there to be a caliche pit located there.
Piazza SWD #1	CP 00734	W. L. Van Noy	P.O. Box 7 Oil Center, NM 88266	Domestic	No	Two water wells are already being sampled.
Piazza SWD #1	CP 00696 POD1	Chevron USA Inc.	6301 Deauville Blvd. Midland, TX 79706	Secondary Recovery of Oil	No	Not a freshwater well.
Piazza SWD #1	CP 00147 POD1	Humble Oil & Refining Company	Unknown	Commercial	No	Two water wells are already being sampled.
Piazza SWD #1	CP 00695 POD1	Chevron USA Inc.	6301 Deauville Blvd. Midland, TX 79706	Secondary Recovery of Oil	No	Not a freshwater well.
Piazza SWD #1	CP 01696 POD1	Wilberta Tivis - Tivis Ranch LLC	P.O. box 1617 Eunice, nm 88231 575-369-8419 Cell 575-394-3223 Ranch phone	Livestock Watering	Yes	32.483077, -103.262247 Sampled on 8/26/2021
Piazza SWD #1	L 14815 POD1	Micheal & Carla Mcneil	P.O. Box 1032 Eunice, NM 88231 575-390-7138 cell (carla)	Domestic	No	Two water wells are already being sampled.

Note:



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 14, 2021

OLIVER SEEKINS  
ALL CONSULTING, LLC  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119

RE: WILBERTA TIVIS

Enclosed are the results of analyses for samples received by the laboratory on 08/26/21 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene  
Lab Director/Quality Manager



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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CP - 01696 POD 1	H212303-01	Water	26-Aug-21 14:15	26-Aug-21 15:15

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**CP - 01696 POD 1  
H212303-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Alkalinity, Bicarbonate	200		5.00	mg/L	1	1072906	AC	27-Aug-21	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	1072906	AC	27-Aug-21	310.1	
Chloride*	900		4.00	mg/L	1	1081907	GM	30-Aug-21	4500-Cl-B	
Conductivity*	5000		1.00	umhos/cm @ 25°C	1	1082704	AC	27-Aug-21	120.1	
pH*	7.50		0.100	pH Units	1	1082704	AC	27-Aug-21	150.1	
Temperature °C	19.6			pH Units	1	1082704	AC	27-Aug-21	150.1	
Resistivity	2.00			Ohms/m	1	1082704	AC	27-Aug-21	120.1	
Sulfate*	1430		10.0	mg/L	1	1083008	GM	30-Aug-21	375.4	
TDS*	3530		5.00	mg/L	1	1081913	GM	30-Aug-21	160.1	
Alkalinity, Total*	164		4.00	mg/L	1	1072906	AC	27-Aug-21	310.1	
TSS*	2.00		2.00	mg/L	1	1083009	AC	31-Aug-21	160.2	

**Green Analytical Laboratories**

**Total Recoverable Metals by ICP (E200.7)**

Barium*	<0.250		0.250	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Calcium*	233		0.500	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Hardness as CaCO3	1090		3.31	mg/L	5	[CALC]	AES	09-Sep-21	2340 B	
Iron*	<0.250		0.250	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Magnesium*	124		0.500	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Potassium*	15.3		5.00	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Sodium*	621		5.00	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	
Strontium*	6.51		0.500	mg/L	5	B212084	AES	09-Sep-21	EPA200.7	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1072906 - General Prep - Wet Chem**

<b>Blank (1072906-BLK1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

<b>LCS (1072906-BS1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			

<b>LCS Dup (1072906-BSD1)</b>		Prepared: 29-Jul-21 Analyzed: 30-Jul-21								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120	0.00	20	
Alkalinity, Total	250	10.0	mg/L	250		100	80-120	0.00	20	

**Batch 1081907 - General Prep - Wet Chem**

<b>Blank (1081907-BLK1)</b>		Prepared & Analyzed: 19-Aug-21								
Chloride	ND	4.00	mg/L							

<b>LCS (1081907-BS1)</b>		Prepared & Analyzed: 19-Aug-21								
Chloride	100	4.00	mg/L	100		100	80-120			

<b>LCS Dup (1081907-BSD1)</b>		Prepared & Analyzed: 19-Aug-21								
Chloride	104	4.00	mg/L	100		104	80-120	3.92	20	

**Batch 1081913 - Filtration**

<b>Blank (1081913-BLK1)</b>		Prepared: 19-Aug-21 Analyzed: 20-Aug-21								
TDS	ND	5.00	mg/L							

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\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1081913 - Filtration**

**LCS (1081913-BS1)** Prepared: 19-Aug-21 Analyzed: 20-Aug-21

TDS	539		mg/L	500		108	80-120			
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**Duplicate (1081913-DUP1)** Source: H212190-02 Prepared: 19-Aug-21 Analyzed: 20-Aug-21

TDS	620	5.00	mg/L		645			3.95	20	
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**Batch 1082704 - General Prep - Wet Chem**

**LCS (1082704-BS1)** Prepared & Analyzed: 27-Aug-21

Conductivity	51400		uS/cm	50000		103	80-120			
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pH	7.05		pH Units	7.00		101	90-110			
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**Duplicate (1082704-DUP1)** Source: H212303-01 Prepared & Analyzed: 27-Aug-21

pH	7.54	0.100	pH Units		7.50			0.532	20	
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Conductivity	5010	1.00	umhos/cm @ 25°C		5000			0.200	20	
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Resistivity	2.00		Ohms/m		2.00			0.200	20	
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Temperature °C	19.6		pH Units		19.6			0.00	200	
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**Batch 1083008 - General Prep - Wet Chem**

**Blank (1083008-BLK1)** Prepared & Analyzed: 30-Aug-21

Sulfate	ND	10.0	mg/L							
---------	----	------	------	--	--	--	--	--	--	--

**LCS (1083008-BS1)** Prepared & Analyzed: 30-Aug-21

Sulfate	20.5	10.0	mg/L	20.0		103	80-120			
---------	------	------	------	------	--	-----	--------	--	--	--

**LCS Dup (1083008-BSD1)** Prepared & Analyzed: 30-Aug-21

Sulfate	21.9	10.0	mg/L	20.0		110	80-120	6.59	20	
---------	------	------	------	------	--	-----	--------	------	----	--

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
---	---	------------------------------

**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1083009 - Filtration**

<b>Blank (1083009-BLK1)</b>				Prepared: 30-Aug-21 Analyzed: 31-Aug-21						
TSS	ND	2.00	mg/L							
<b>Duplicate (1083009-DUP1)</b>				Source: H212303-01 Prepared: 30-Aug-21 Analyzed: 31-Aug-21						
TSS	2.00	2.00	mg/L		2.00			0.00	52.7	

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**Analytical Results For:**

ALL CONSULTING, LLC 1718 S. CHEYENNE AVE. TULSA OK, 74119	Project: WILBERTA TIVIS Project Number: 32.48377-103.262247 Project Manager: OLIVER SEEKINS Fax To: NA	Reported: 14-Sep-21 09:47
---	---	------------------------------

**Total Recoverable Metals by ICP (E200.7) - Quality Control**

**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B212084 - Total Rec. 200.7/200.8/200.2**

**Blank (B212084-BLK1)**

Prepared: 07-Sep-21 Analyzed: 09-Sep-21

Magnesium	ND	0.100	mg/L							
Barium	ND	0.050	mg/L							
Strontium	ND	0.100	mg/L							
Calcium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
Iron	ND	0.050	mg/L							
Potassium	ND	1.00	mg/L							

**LCS (B212084-BS1)**

Prepared: 07-Sep-21 Analyzed: 09-Sep-21

Strontium	3.93	0.100	mg/L	4.00		98.3	85-115			
Sodium	3.19	1.00	mg/L	3.24		98.3	85-115			
Potassium	7.82	1.00	mg/L	8.00		97.7	85-115			
Magnesium	20.3	0.100	mg/L	20.0		101	85-115			
Iron	3.94	0.050	mg/L	4.00		98.6	85-115			
Calcium	3.97	0.100	mg/L	4.00		99.3	85-115			
Barium	1.96	0.050	mg/L	2.00		98.1	85-115			

**LCS Dup (B212084-BSD1)**

Prepared: 07-Sep-21 Analyzed: 09-Sep-21

Magnesium	20.2	0.100	mg/L	20.0		101	85-115	0.516	20	
Calcium	3.90	0.100	mg/L	4.00		97.6	85-115	1.81	20	
Potassium	7.82	1.00	mg/L	8.00		97.7	85-115	0.0383	20	
Barium	1.93	0.050	mg/L	2.00		96.7	85-115	1.45	20	
Sodium	3.17	1.00	mg/L	3.24		97.9	85-115	0.443	20	
Strontium	3.92	0.100	mg/L	4.00		98.0	85-115	0.321	20	
Iron	3.87	0.050	mg/L	4.00		96.9	85-115	1.74	20	

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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>Lab Services / Cell Consult</b> Project Manager: <b>Dustin Armstrong</b>		P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Project #: _____ Project Owner: _____ Project Location: <b>Wilburta Truis</b> City: _____ State: _____ Zip: _____ Sampler Name: _____ Phone #: _____ Fax #: _____	
Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____		<b>BILL TO</b>	
City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____		<b>ANALYSIS REQUEST</b>	
Project #: _____ Project Owner: _____ Project Location: <b>Wilburta Truis</b>		City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Sampler Name: _____ FOR LAB USE ONLY		Matrix: _____ PRESERV: _____ SAMPLING: _____	
Lab I.D. <b>H213303</b> Sample I.D. <b>CP-01696 Pod 1</b>		(G)RAB OR (C)OMP: _____ # CONTAINERS: _____ GROUNDWATER: _____ WASTEWATER: _____ SOIL: _____ OIL: _____ SLUDGE: _____ OTHER: _____ ACID/BASE: _____ ICE / COOL: _____ OTHER: _____	
Date: <b>8-26-21</b> Time: <b>3:15</b> Date: _____ Time: _____		DATE: <b>8-25-21</b> TIME: <b>2:15</b>	
Relinquished By: _____ Received By: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Turnaround Time: <b>Standard</b> <input type="checkbox"/> <b>Rush</b> <input checked="" type="checkbox"/> Thermometer ID #113 <input type="checkbox"/> Correction Factor None <input type="checkbox"/>	
Observed Temp. °C: <b>5.9</b> Corrected Temp. °C: _____		Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Sample Condition _____ Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C _____ Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C _____	

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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

**Attachment 6**

Public Notice Affidavit and Notice of Application Confirmations

# LEGAL NOTICE September 5, 2021

## APPLICATION FOR AUTHORIZATION TO INJECT

NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75206, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION: Piazza SWD #1  
Located 7.49 miles northwest of Eunice, NM  
NE ¼ SW ¼, Section 9, Township 21S, Range 36E  
1,874' FSL & 2,531' FWL  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: San Andres (4,125' – 5,400')

EXPECTED MAXIMUM INJECTION RATE: 40,000 Bbls/day

EXPECTED MAXIMUM INJECTION PRESSURE: 825 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Nate Alleman at 918-382-7581.

**#36822**



# Affidavit of Publication

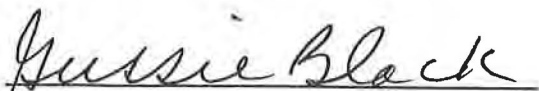
STATE OF NEW MEXICO  
COUNTY OF LEA

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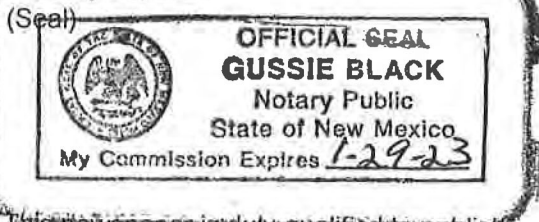
Beginning with the issue dated  
September 05, 2021  
and ending with the issue dated  
September 05, 2021.

  
Publisher

Sworn and subscribed to before me this  
5th day of September 2021.

  
Business Manager

My commission expires  
January 29, 2023



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

LEGAL	LEGAL
<b>LEGAL NOTICE</b> September 5, 2021	
<b>APPLICATION FOR AUTHORIZATION TO INJECT</b>	
NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Unit 800, Dallas, TX 75208, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:	
PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.	
WELL NAME AND LOCATION: <u>Piazza SWD #1</u> <u>Located 7.49 miles northwest of Eunice, NM</u> <u>NE 1/4 SW 1/4, Section 9, Township 21S, Range 36E</u> <u>1,874' FSL &amp; 2,531' FWL</u> <u>Lea County, NM</u>	
NAME AND DEPTH OF DISPOSAL ZONE: <u>San Andres (4,125' - 5,400')</u>	
EXPECTED MAXIMUM INJECTION RATE: <u>40,000</u> <u>Bbls/day</u>	
EXPECTED MAXIMUM INJECTION PRESSURE: <u>825 psi (surface)</u>	
Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.	
Additional information may be obtained by contacting Nate Alleman at 918-382-7581. <b>#35822</b>	

67115320

00258137

DANIEL ARTHUR  
ALL CONSULTING  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119



Piazza SWD #1 - Notice of Application Recipients				
Entity	Address	City	State	Zip Code
<b>Land &amp; Mineral Owner</b>				
Millard Deck Estate, Terry Richey Trustee Senior Vice President - Sr. Trust Officer Southwest Bank Trust Department	4800 East 42nd Street	Odessa	Texas	79762
<b>OCD District</b>				
NMOCD District 1	1625 N. French Drive	Hobbs	NM	88240
<b>Leasehold Operators</b>				
Apache Corporation (APACHE CORPORATION)	303 Vet Airpark Lane, Suite 3000	Midland	TX	79705
Chevron USA, Inc. (CHEVRON USA INC, CHEVRON U S A INC)	6301 Deauville Blvd	Midland	TX	79706
Commision of Public Lands - State Lands Office	310 Old Santa Fe Trail	Santa Fe	NM	87501
Conocophillips Company (CONOCOPHILLIPS CO)	P.O. Box 7500	Bartlesville	OK	74005
Empire Petroleum Corporation (Empire New Mexico, LLC)	2200 S. Utica Place, Suite 150	Tulsa	OK	74114
New Mexico BLM	620 E Greene St.	Carlsbad	NM	88220
PETEX (Petroleum Exploration Company Ltd., Limited P)	P.O. Box 548	Breckenridge	TX	76424
XTO Energy, Inc. (XTO ENERGY INC, XTO ENERGY INC.)	500 W. Illinois Ave, Suite 100	Midland	TX	79701
ZPZ Delaware I, LLC (ZPZ DELAWARE I LLC)	2000 Post Oak Blvd., Suite 100	Houston	TX	77056
<p><b>Notes:</b> The table above shows the Entities who were identified as parties of interest requiring notification on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2). The names listed above in parenthesis, are the abbreviated entity names used on either the 0.5-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2).</p>				

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2200 South Utica Place, Suite 150  
Tulsa OK 74114-7015

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Midland TX 79706-2964

NMOCD District 1  
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Southwest Bank Trust Department  
Terry Richey Trustee  
Millard Deck Estate  
4800 East 42nd Street  
Odessa TX 79762-7214



# ALLCONSULTING

GOVERNMENT RELATIONS · ENERGY · PLANNING · TECHNOLOGY  
ENGINEERING · ENVIRONMENTAL

April 10, 2023

New Mexico Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Subject: Goodnight Midstream Permian, LLC –Andre Dawson SWD #1  
Injection Rate Increase Request (SWD-2403/R-22026).

To Whom It May Concern,

On behalf of Goodnight Midstream Permian, LLC (Goodnight), ALL Consulting, LLC (ALL) is requesting an increase to the maximum injection rate from 25,000 to 40,000 bbl/day for the Andre Dawson SWD #1, a Class IID injection well in Lea County, New Mexico. All other conditions of the approved UIC permit remain the same (Approved On: 02/07/2022). The approval of this injection rate increase request would provide additional disposal capacity for operators, while deferring the need for additional SWDs in the area.

According to a review of NMOCD well data records, there are no new wells within the ½-mile AOR; however, there are two new affected parties within the AOR due to a change in well operator. In support of this request, the following items have been attached:

- UIC Permit SWD – 2403
- Public Notice Affidavit
- Affected Party Analysis & Proof of Notice.
  - Mineral Lease AOR Map
  - Oil & Gas Well AOR Map
  - AOR Well Table
  - Affected Party Notification Analysis
  - Certified Mailing Receipts

If you have any questions, or if I may clarify any specific points, please feel free to call me at (918) 382-7581 or e-mail me at [nalleman@all-llc.com](mailto:nalleman@all-llc.com).

Sincerely,  
ALL Consulting



Nate Alleman  
Sr. Regulatory Specialist

Attachment

BEFORE THE OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
Exhibit No. A-9

Submitted by: Goodnight Midstream Permian, LLC  
Hearing Date: September 23, 2024  
Case Nos. 23614-23617, 23775,  
24018 – 24020, 24025, 24123

ALL Consulting  
Phone 918.382.7581

1718 South Cheyenne Ave.  
Fax 918.382.7582

Tulsa, OK 74119  
[www.ALL-LLC.com](http://www.ALL-LLC.com)



**UIC Permit SWD – 2403**

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

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

**APPLICATION OF GOODNIGHT MIDSTREAM PERMIAN, LLC FOR APPROVAL OF  
A SALT WATER DISPOSAL WELL, LEA COUNTY, NEW MEXICO.**

**CASE NO. 21569  
ORDER NO. R-22026**

**ORDER OF THE DIVISION**

This case came in for hearing before the Oil Conservation Division (“OCD”) at 8:15 a.m. on January 21, 2021, in Santa Fe, New Mexico.

The OCD Director, having considered the testimony, the record, the recommendations of Hearing Examiners Kathleen Murphy and Dylan Rose-Coss, these findings of fact, and conclusions of law issues this Order.

**FINDINGS OF FACT**

1. Due public notice has been given, and the Oil Conservation Division (“OCD”) has jurisdiction of this case and the subject matter.
2. Goodnight Midstream Permian, LLC (“Applicant”) seeks authority to utilize its Andre Dawson SWD No. 1 Well (API No. 30-025-Pending; “Well”), located 1105 feet from the South line and 244 feet from the East line (Unit P) of Section 17, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico, as an Underground Injection Control (“UIC”) Class II well for disposal of produced water into the San Andres formation through a perforated interval from 4287 feet to 5590 feet below surface.
3. Applicant submitted a Form C-108 application (Administrative Application No. pBL2032263200) on November 17, 2020, for authority to inject into the Well which was protested by the New Mexico State Land Office (“NMSLO”).
4. On December 8, 2020, Applicant submitted an application for hearing for approval of the Well for commercial disposal of produced water. Subsequently, the NMSLO filed an entry of appearance for this application on December 31, 2020.

Case No. 21569  
Order No. R-22026  
Page 2 of 3

5. Applicant provided affidavits at hearing through counsel that presented geologic and engineering evidence in support of the approval of injection authority for the Well.
6. Applicant did not identify any wells that penetrate the proposed injection interval within the one-half mile Area of Review of the surface location of the Well.
7. Three shallow freshwater wells were located within one mile of the Well and a sample of the CP 01485 POD1 well with the results is included in the application.
8. The NMSLO did not appear at hearing and did not oppose the presentation of the case by affidavit nor oppose the granting of this application. The NMSLO provided a statement into record expressing their concern for the spacing of disposal wells and the potential impacts to adjacent state mineral interests.
9. No other party appeared at the hearing, or otherwise opposed the granting of this application.

**The OCD concludes as follows:**

10. Applicant provided the information required by 19.15.26 NMAC and the Form C-108 for an application to inject produced water into a Class II UIC well.
11. Applicant complied with the notice requirements of 19.15.4 NMAC.
12. Applicant affirmed in a sworn statement by a qualified person that it examined the available geologic and engineering data and found no evidence of open faults or other hydrologic connections between the approved injection interval and any underground sources of drinking water.
13. Applicant is in compliance with 19.15.5.9 NMAC.
14. Approval of disposal in the Well will enable Applicant to support existing production and future exploration in this area, thereby preventing waste while not impairing correlative rights and protecting fresh water or underground sources of drinking water.

**IT IS THEREFORE ORDERED THAT:**

1. Goodnight Midstream Permian, LLC is hereby authorized by **UIC Permit SWD-2403** to utilize its Andre Dawson SWD No. 1 Well, located in Unit P of Section 17, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico, for the commercial disposal of UIC Class II fluids into the San Andres formation.
2. Jurisdiction is retained by the OCD for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh or protectable waters or (2) consistent with the

Case No. 21569  
Order No. R-22026  
Page 3 of 3

requirements in this order; whereupon the OCD may, after notice and hearing or prior to notice and hearing in event of an emergency, terminate the disposal authority granted herein.

DONE at Santa Fe, New Mexico, on this 07 day of February, 2022.

**STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION**

A handwritten signature in black ink, appearing to read 'Adrienne', written over a horizontal line.

**ADRIENNE SANDOVAL  
DIRECTOR**

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

**UIC CLASS II PERMIT SWD-2403**

**APPENDIX A – AUTHORIZED INJECTION**

Permittee: Goodnight Midstream Permian, LLC

OGRID No.: 372311

Well name: Andre Dawson SWD No. 1

Surface location: Lat: N 32.4745582; Long: W 103.2797418; NAD83  
1105 feet from the South line and 244 feet from the East line (Unit P) of  
Section 17, Township 21 South, Range 36 East, NMPM, Lea County, New  
Mexico.

Bottom hole location (if different): NA

Type of completion: Perforations

Type of injection: Commercial

Injection fluid: Produced water from production wells completed in the Bone Spring, Delaware  
Mountain Group, and Wolfcamp formations.

Injection interval: San Andres Formation

Injection interval thickness (feet): 4,287 feet to 5,590 feet (1,303 feet)

Confining layer(s): Upper confining: base of Grayburg Formation and upper San Andres  
Formation  
Lower confining: upper contact of Glorieta Formation

Prohibited injection interval(s): Paddock or deeper formations.

Liner, tubing, and packer set: No liner; 5.5-inch lined tubing with packer set within 100 feet of  
uppermost perforation.

Maximum daily injection rate: 25,000 barrels of water.

Maximum surface injection pressure: 857 psi



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

**UIC CLASS II PERMIT SWD- 2261**

Pursuant to the Oil and Gas Act, NMSA 1978, §§70-2-1 *et seq.*, (“Act”) and its implementing regulations, 19.15.1 *et seq.* NMAC, (“Rules”) and the federal Safe Drinking Water Act, 42 U.S.C. 300f *et seq.*, and its implementing regulations, 40 CFR 144 *et seq.*, the Oil Conservation Division (“OCD”) issues this Permit to Goodnight Midstream Permian, LLC (“Permittee”) to authorize the construction and operation of a well to inject produced water at the location and under the terms and conditions specified in this Permit and Appendix A.

**I. GENERAL CONDITIONS**

**A. AUTHORIZATION**

**1. Scope of Permit.** This Permit authorizes the injection of produced water into the well described on Appendix A (“Well”). Any injection not specifically authorized by this Permit is prohibited. Permittee shall be the “operator” of the Well as defined in 19.15.2.7(O)(5) NMAC.

a. Injection is limited to the approved injection interval described in Appendix A. Permittee shall not allow the movement of fluid containing any contaminant into an underground source of drinking water (“USDW”) if the presence of that contaminant may cause a violation of a Primary Drinking Water Regulation adopted pursuant to 40 CFR Part 142 or that may adversely affect the health of any person. [40 CFR 144.12(a)]

b. The wellhead injection pressure for the Well shall not exceed the value identified in Appendix A.

c. Permittee shall not commence to drill, convert, or recomplete the Well until receiving this approval and until OCD approves a Form C-101 Application for Permit to Drill (“APD”) pursuant to 19.15.14 NMAC or receives an approved federal Form 3160-3 APD for the Well. [40 CFR 144.11; 19.15.14.8 and 19.15.26.8 NMAC]

d. Permittee shall not commence injection into the Well until the Permittee complies with the conditions in Section I. C. of this Permit.

e. This Permit authorizes injection of any UIC Class II fluid or oil field waste defined in 19.15.2.7(E)(6) NMAC.

f. This Permit does not authorize injection for an enhanced oil recovery project as defined in 19.15.2.7(E)(2) NMAC.

**2. Notice of Commencement.** Permittee shall provide written notice on Form C-103 to OCD E-Permitting and notify OCD Engineering Bureau by email of the submittal no later than two (2) business days following the date on which injection commenced into the Well. [19.15.26.12(B) NMAC]

**3. Termination.** Unless terminated sooner, this Permit shall remain in effect for a term of twenty (20) years beginning on the date of issuance. Permittee may submit an application for a new permit prior to the expiration of this Permit. If Permittee submits an application for a new permit, then the terms and conditions of this Permit shall remain in effect until OCD denies the application or grants a new permit.

a. This Permit shall terminate one (1) year after the date of issuance if Permittee has not commenced injection into the Well, provided, however, that OCD may grant a single extension of no longer than one (1) year for good cause shown. Permittee shall submit a written request for an extension to OCD Engineering Bureau no later than thirty (30) days prior to the deadline for commencing injection.

b. One (1) year after the last date of reported injection into the Well, OCD shall consider the Well abandoned, the authority to inject pursuant to this Permit shall terminate automatically, and Permittee shall plug and abandon the Well as provided in Section I. E. of this Permit. Upon receipt of a written request by the Permittee no later than one year after the last date of reported injection into the Well, OCD may grant an extension for good cause. [19.15.26.12(C) NMAC]

## **B. DUTIES AND REQUIREMENTS**

**1. Duty to Comply with Permit.** Permittee shall comply with the terms and conditions of this Permit. Any noncompliance with the terms and conditions of this Permit, or of any provision of the Act, Rules or an Order issued by OCD or the Oil Conservation Commission, shall constitute a violation of law and is grounds for an enforcement action, including revocation of this Permit and civil and criminal penalties. Compliance with this Permit does not relieve Permittee of the obligation to comply with any other applicable law, or to exercise due care for the protection of fresh water, public health and safety and the environment. The contents of the Application and Appendix A shall be enforceable terms and conditions of this Permit. [40 CFR 144.51(a); 19.15.5 NMAC]

**2. Duty to Halt or Reduce Activity to Avoid Permit Violations.** Permittee shall halt or reduce injection to avoid a violation of this Permit or other applicable law. It shall not be a defense in an enforcement action for Permittee to assert that it would have been necessary to halt or reduce injection in order to maintain compliance with this Permit. [40 CFR 144.51(c)]

**3. Duty to Mitigate Adverse Effects.** Permittee shall take all reasonable steps to minimize, mitigate and correct any waste or effect on correlative rights, public health, or the

environment resulting from noncompliance with the terms and conditions of this Permit. [40 CFR 144.51(d)]

**4. Duty to Operate and Maintain Well and Facilities.** Permittee shall operate and maintain the Well and associated facilities in compliance with the terms and conditions of this Permit. [40 CFR 144.51(e)]

**5. Duty to Provide Information.** In addition to any other applicable requirement, Permittee shall provide to OCD by the date and on the terms specified by OCD any information which OCD requests for the purpose of determining whether Permittee is complying with the terms and conditions of this Permit. [40 CFR 144.51(h)]

**6. Private Property.** This Permit does not convey a property right or authorize an injury to any person or property, an invasion of private rights, or an infringement of state or local law or regulations. [40 CFR 144.51(g)]

**7. Inspection and Entry.** Permittee shall allow OCD's authorized representative(s) to enter upon the Permittee's premises where the Well is located and where records are kept for the purposes of this Permit at reasonable times and upon the presentation of credentials to:

- a. Inspect the Well and associated facilities;
- b. Have access to and copy any record required by this Permit;
- c. Observe any action, test, practice, sampling, measurement or operation of the Well and associated facilities; and
- d. Obtain a sample, measure, and monitor any fluid, material or parameter as necessary to determine compliance with the terms and conditions of this Permit. [40 CFR 144.51(i)]

**8. Certification Requirement.** Permittee shall sign and certify the truth and accuracy of all reports, records, and documents required by this Permit or requested by OCD. [40 CFR 144.51(k)]

**9. Financial Assurance.** Permittee shall provide and maintain financial assurance for the Well in the amount specified by OCD until the Well has been plugged and abandoned and the financial assurance has been released by OCD. [40 CFR 144.52; 19.15.8.12 NMAC]

## C. PRIOR TO COMMENCING INJECTION

### 1. Construction Requirements.

- a. Permittee shall construct the Well as described in the Application,

Appendix A and as required by the Special Conditions.

b. Permittee shall construct and operate the Well in a manner that ensures the injected fluid enters only the approved injection interval and is not permitted to escape to other formations or onto the surface.

**2. Tests and Reports.** Permittee shall complete the following actions prior to commencing injection in the Well.

a. Permittee shall obtain and comply with the terms and conditions of an approved APD prior to commencing drilling of the Well, or other OCD approval, as applicable, prior to converting or recompleting the Well. If the APD is approved by the OCD, the Well shall be subject to the construction, testing, and reporting requirements of 19.15.16 NMAC.

b. Permittee shall circulate to surface the cement for the surface and intermediate casings. If cement does not circulate on any casing string, Permittee shall run a cement bond log ("CBL") to determine the top of cement, then notify the OCD Engineering Bureau and the appropriate OCD Inspection Supervisor and submit the CBL prior to continuing with any further cementing on the Well. If the cement did not tie back into next higher casing shoe, Permittee shall perform remedial cement action to bring the cement to a minimum of two hundred (200) feet above the next higher casing shoe.

c. If a liner is approved for the construction of the Well, Permittee shall run and submit to OCD E-Permitting and notify the OCD Engineering Bureau by email, a CBL for the liner to demonstrate placement cement and the cement bond with the tie-in for the casing string.

d. Permittee shall submit to the appropriate OCD Engineering Bureau the mudlog, geophysical logs, and a summary of depths (picks) for the contacts of the formations demonstrating that only the permitted formation is open for injection. OCD may amend this Permit to specify the depth of the approved injection interval within the stratigraphic interval requested in the application. If Permittee detects a hydrocarbon show during the drilling of the Well, it shall notify OCD Engineering Bureau by email and obtain written approval prior to commencing injection into the Well.

e. Permittee shall obtain and submit to the OCD E-permitting on a Form C-103 a calculated or measured static bottom-hole pressure measurement representative of the completion in the approved injection interval.

f. Permittee shall conduct an initial mechanical integrity test ("MIT") on the Well in compliance with the terms and conditions of this Permit and 19.15.26 NMAC, and shall not commence injection into the Well until the results of the

initial MIT have been approved by the appropriate OCD Inspection Supervisor. [19.15.26.11(A) NMAC]

g. OCD retains authority to require a wireline verification of the completion and packer setting depths in this Well. [19.15.26.11(A) NMAC]

## **D. OPERATION**

### **1. Operation and Maintenance.**

a. Permittee shall equip, operate, monitor and maintain the Well to facilitate periodic testing, assure mechanical integrity, and prevent significant leaks in the tubular goods and packing materials used and significant fluid movements through vertical channels adjacent to the well bore. [19.15.26.10(A) NMAC]

b. Permittee shall operate and maintain the Well and associated facilities in a manner that confines the injected fluid to the approved injection interval and prevents surface damage and pollution by leaks, breaks and spills. [19.15.26.10(B) NMAC]

c. OCD may authorize an increase in the maximum surface injection pressure upon a showing by the Permittee that such higher pressure will not result in the migration of the disposed fluid from the approved injection interval or induced seismicity. Such proper showing shall be demonstrated by sufficient evidence, including an acceptable step-rate test.

d. If OCD has reason to believe that operation of the Well may have caused or determined to be contributing to seismic activity, Permittee shall, upon OCD's written request:

i. Take immediate corrective action, which could include testing and evaluating of the injection interval and confining layers; suspending or reducing of the rate of injection or maximum surface injection pressure, or both; and providing increased monitoring of the Well's operation; and

ii. Submit a remedial work plan or an application to modify the Permit to implement the corrective action, plug back the injection interval, or incorporate another modification required by OCD.

OCD may approve the remedial work plan, modify the Permit or issue an emergency order or temporary cessation order as it deems necessary.



**2. Pressure Limiting Device.**

a. The Well shall be equipped with a pressure limiting device, which is in workable condition and can be tested for proper calibration at the well site, that shall limit surface tubing pressure to the maximum surface injection pressure specified in Appendix A.

b. Permittee shall test the pressure limiting device and all gauges and other metering requirement to ensure their accuracy and proper function no less than every five (5) years.

**3. Mechanical Integrity.** Permittee shall conduct a MIT prior to commencing injection, at least every five (5) years after the date of the previous MIT, and whenever the tubing is removed or replaced, the packer is reset, mechanical integrity is lost, Permittee proposes to transfer the Well, or requested by OCD.

a. MITs shall be conducted in accordance with 19.15.26 NMAC.

b. Permittee shall submit a sundry notice on Form C-103 of intent to install or replace injection equipment or conduct a MIT no later than three (3) business days prior to the event.

c. Permittee shall report the result of a MIT no later than two (2) business days after the test.

d. Permittee shall cease injection and shut-in the Well no later than twenty-four (24) hours after discovery if:

i. The Well fails a MIT; or

ii. Permittee observes conditions at the Well that indicate the mechanical failure of tubing, casing, or packer.

e. Permittee shall take all necessary actions to address the effects resulting from the loss of mechanical integrity in accordance with 19.15.26.10 NMAC.

f. Permittee shall conduct a successful MIT pursuant to 19.15.26.11 NMAC, including written approval from OCD prior to recommencing injection and the requirements contained in Section I G.3.

**4. Additional Tests.** Permittee shall conduct any additional test requested by OCD, including but not limited to step-rate tests, tracer surveys, injection surveys, noise logs, temperature logs, and casing integrity logs [19.15.26.11(A)(3) NMAC]

**5. Records.**

a. Permittee shall retain a copy of each record required by this Permit for a period of at least five (5) years and shall furnish a copy to OCD upon request. [40 CFR 144.51(h)]

b. Permittee shall retain a record of each test, sample, measurement, and certification of accuracy and function collected for the Well, including:

i. Date, location, and time of sample, measurement or calibration;

ii. Person who conducted the sample event, -measurement or calibration;

iii. Calibration of gauge or other equipment in accordance with the manufacturer's specifications;

iv. Description of method and procedures;

v. Description of handling and custody procedures; and

vi. Result of the analysis.

**E. PLUGGING AND ABANDONMENT**

1. Upon the termination of this Permit, Permittee shall plug and abandon the Well and restore and remediate the location in accordance with 19.15.25 NMAC.

2. If Permittee has received an extension pursuant to Section I. A. 2. b., Permittee shall apply for approved temporary abandonment pursuant to 19.15.25 NMAC.

3. If this Permit expires pursuant to 19.15.26.12 NMAC and OCD has not issued a new permit, then Permittee shall plug and abandon the Well and restore and remediate the location in accordance with 19.15.25 NMAC.

4. Permittee's temporary abandonment of the Well shall not toll the abandonment of injection in accordance with 19.15.26.12(C) NMAC.

**F. REPORTING**

1. **Monthly Reports.** Permittee shall submit a report using Form C-115 using the OCD's web-based online application on or before the 15th day of the second month following the month of injection, or if such day falls on a weekend or holiday, the first workday following the 15<sup>th</sup>, with the number of days of operation, injection volume, and injection pressure. [19.15.26.13 NMAC; 19.15.7.24 NMAC]

**2. Corrections.** Permittee shall promptly disclose to OCD any incorrect information in the Application or any record required by this Permit and submit corrected information. [40 CFR 144.51(h)(8)]

#### **G. CORRECTIVE ACTION**

**1. Releases.** Permittee shall report any unauthorized release of injection fluid at the Well or associated facilities in accordance with 19.15.29 and 19.15.30 NMAC.

**2. Failures and Noncompliance.** Permittee shall report the following incidents to appropriate OCD Inspection Supervisor and OCD Engineering Bureau verbally and by e-mail no later than 24 hours after such incident:

a. Any mechanical integrity failures identified in Section I. D. 3. d;

b. The migration of injection fluid from the injection interval [19.15.26.10 NMAC]; or

c. A malfunction of the Well or associated facilities that may cause waste or affect the public health or environment, including: (a) monitoring or other information which indicates that a contaminant may affect a USDW; or (b) noncompliance or malfunction which may cause the migration of injection fluid into or between USDWs. [40 CFR 144.51(l)(6)]

**3. Corrective Action.** Permittee shall submit a written report describing the incident in Sections I.G.1 or I.G.2, including a corrective active plan, no later than five (5) calendar days after discovery of the incident. [40 CFR 144.51(l)(6)] For an unauthorized release, Permittee also shall comply with the site assessment, characterization and remediation requirements of 19.15.29 and 19.15.30 NMAC.

**4. Restriction or Shut-In.** OCD may restrict the injected volume and pressure or shut-in the Well if OCD determines that the Well has failed or may fail to confine the injected fluid to the approved injection interval or has caused induced seismicity until OCD determines that Permittee has identified and corrected the failure. [19.15.26.10(E) NMAC]

#### **H. PERMIT CHANGES**

**1. Transfer.** This Permit shall not be transferred without the prior written approval of OCD. Permittee shall file Form C-145 for a proposed transfer of the Well. OCD may require, as a condition of approving the transfer, that this Permit be amended to ensure compliance and consistency with applicable law. If the Well has not been spud prior to the transfer, the OCD may require that the new operator reapply and submit to the OCD a new Form C-108 prior to constructing and injecting into the well. [19.15.26.15 NMAC; 19.15.9.9 NMAC]

**2. Insolvency.** Permittee shall notify OCD Engineering Bureau of the commencement of a voluntary or involuntary proceeding in bankruptcy which names Permittee or an entity which operates the Well on behalf of Permittee as a debtor no later than ten (10) business days after the commencement of the proceeding.

**3. OCD Authority to Modify Permit and Issue Orders**

a. The OCD may amend, suspend, or revoke this Permit after notice and an opportunity for hearing if it determines that:

i. The Permit contains a material mistake;

ii. Permittee made an incorrect statement on which OCD relied to establish a term or condition of the Permit or grant this Permit;

iii. this Permit must be amended to ensure compliance and consistency with applicable law, including a change to the financial assurance requirements;

iv. The Well's operation may affect the water quality of fresh water;

v. Injected fluid is escaping from the approved injection interval;

vi. Injection may be caused or contributed to seismic activity:  
or

vii. Injection may cause or contribute to the waste of oil, gas or potash resources or affect correlative rights, public health, or the environment.

b. OCD retains jurisdiction to enter such orders as it deems necessary to prevent waste and to protect correlative rights, protect public health, and the environment.

c. OCD retains jurisdiction to review this Permit as necessary and no less than once every five (5) years, and may determine whether this Permit should be modified, revoked and reissued, or terminated. [40 CFR 144.36(a)]

**4. Permittee Request to Modify Permit.** Permittee may apply to modify the terms of this Permit.

a. **Minor Modifications.** OCD may make a minor modification to this Permit without notice and an opportunity for hearing for:

- i. Non-substantive changes such as correction of typographical errors;
- ii. Requirements for more frequent monitoring or reporting;
- iii. Changes to the Well construction requirements provided that any alteration shall comply with the conditions of the Permit and does not change the Area of Review considered in the application for the Permit;
- iv. Amendments to the plugging and abandonment plan;
- v. Changes in the types of fluids injected which are consistent with sources listed in the application for the Permit and do not change the classification of the Well;
- vi. Corrections of the actual injection interval if within the approved formation; or
- vii. Transfer of a Permit for a Well that has been spud. [40 CFR 144.41]

b. **Major Modifications.** OCD shall require notice and an opportunity for hearing for any modification that is not minor. For such modifications, Permittee shall submit Form C-108 and comply with the notice requirements of 19.15.26 NMAC.

## II. SPECIAL CONDITIONS

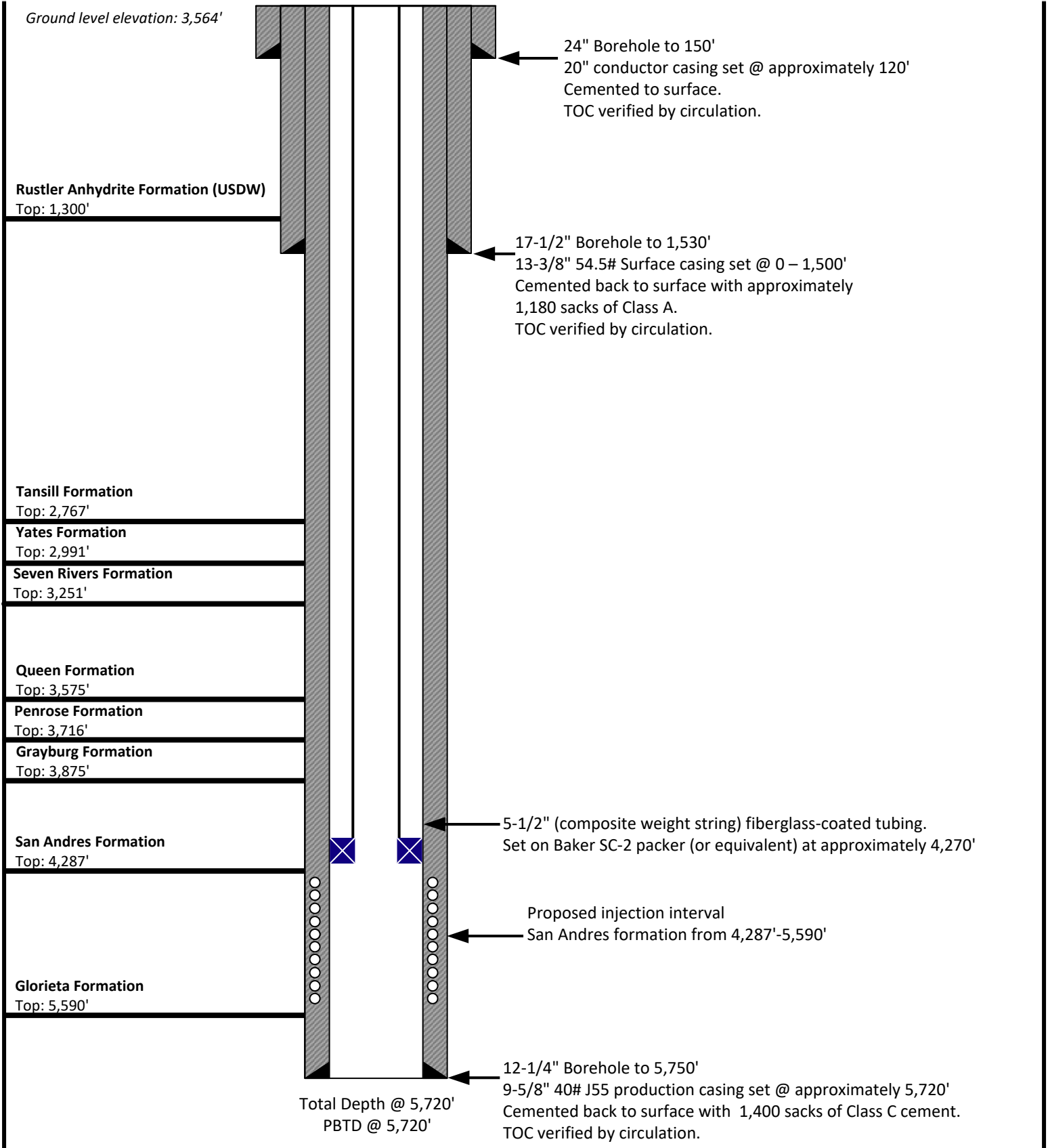
Permittee shall comply with the following special conditions:

1. The Permittee shall obtain a water sample for analysis of hydrocarbon content as well as general water chemistry (including major cations, major anions, and Total Dissolved Solids (TDS)). Prior to commencing injection, the Permittee shall supply the results of the water sample in an e-mail submittal to the OCD Engineering Bureau. *If the analysis of the sample is found to contain a TDS concentration of 10000 mg/L or less, the injection authority under this Order shall be suspended ipso facto.*

## III. ATTACHMENT

Well Completion Diagram as Provided in the C-108 Application for Case No. 21569.





NOT TO SCALE

Cement volumes include 25% excess.

Proposed Maximum Injection Rate: 25,000 BPD

Prepared by:  
**ALLCONSULTING**  
Prepared for:  
**GOODNIGHT**  
MIDSTREAM

Drawn by: Joshua Ticknor  
Project Manager:  
Dan Arthur  
Date: 11/4/2020

**Goodnight Midstream Permian, LLC**  
Andre Dawson SWD #1  
API# TBD  
1,105' FSL & 244' FEL, Unit P of Sec 17-T21S-R36E  
Lea County, New Mexico

**Public Notice Affidavit**

# 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 05, 2023  
and ending with the issue dated  
April 05, 2023.



Publisher

Sworn and subscribed to before me this  
5th day of April 2023.



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

**LEGAL NOTICE**  
April 5, 2023

**REQUEST TO MODIFY CLASS II UIC PERMIT**

NOTICE IS HEREBY GIVEN: That Goodnight Midstream Permian, LLC, 5910 N Central Expressway, Suite 850, Dallas, TX 75206, is requesting the New Mexico Oil Conservation Division administratively approve a modification to the maximum injection rate from 25,000 to 40,000 barrels per day (bbl/day) to UIC Class II Permit SWD-2403.

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION:  
Andre Dawson SWD #1  
Located approximately 7.48 miles northwest of Eunice, NM  
SE ¼ SE ¼, Section 17, Township 21S, Range 36E  
1.105' FSL & 244' FEI  
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE:  
San Andres (4,287' - 5,590')

EXPECTED MAXIMUM INJECTION RATE:  
40,000 bbl/day

EXPECTED MAXIMUM INJECTION PRESSURE:  
857 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting  
Nate Alleman at 918-382-7581.  
#00277450

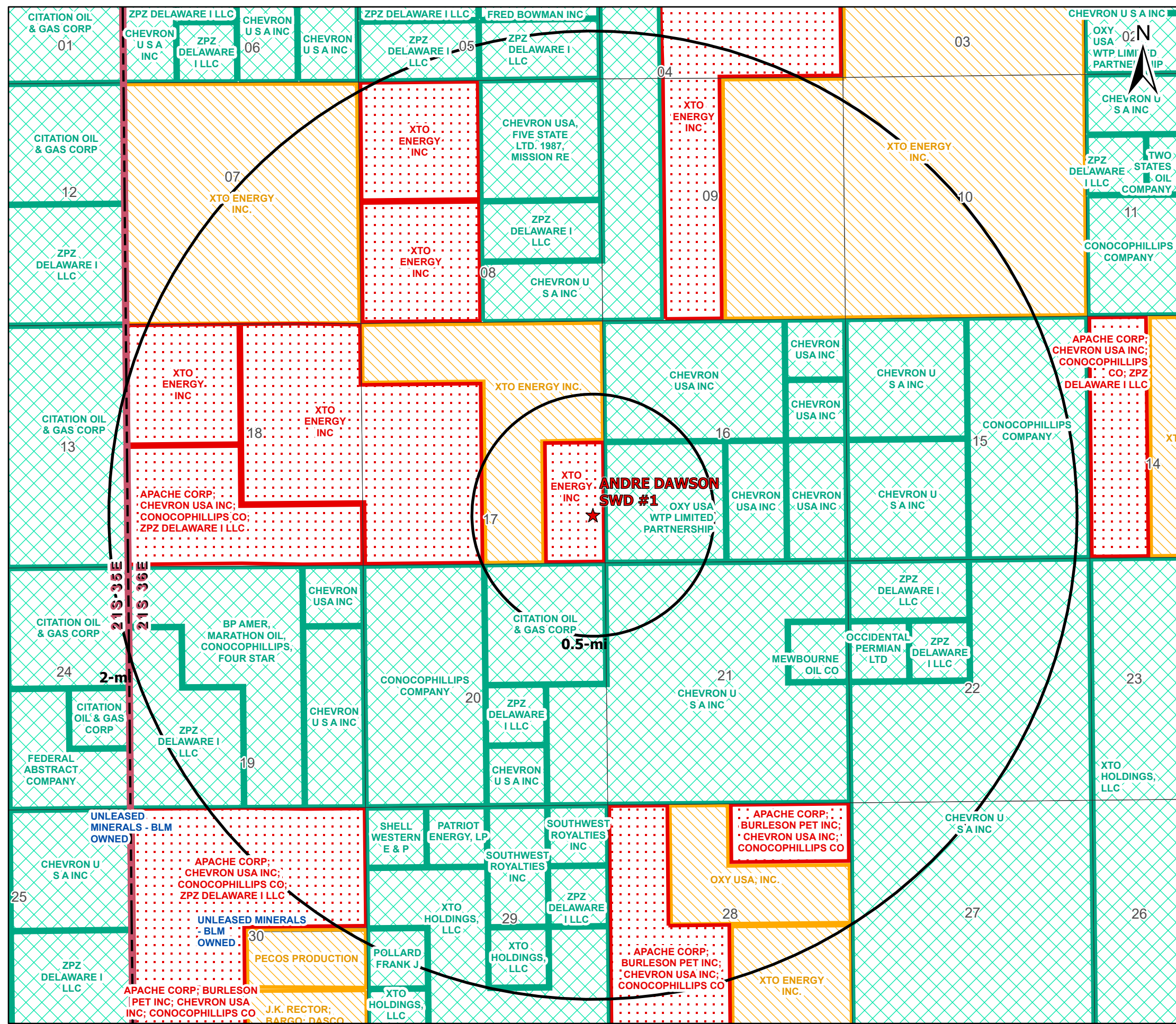
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00277450

DANIEL ARTHUR  
ALL CONSULTING  
1718 S. CHEYENNE AVE.  
TULSA, OK 74119

**Affected Party Analysis & Proof of Notice:**

Mineral Lease AOR Map  
Oil & Gas Well AOR Map  
AOR Well Table  
Affected Party Notification Analysis  
Certified Mailing Receipts

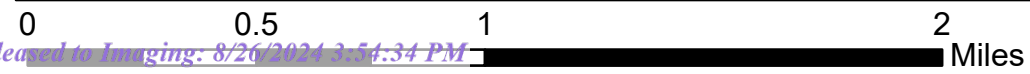


### Legend

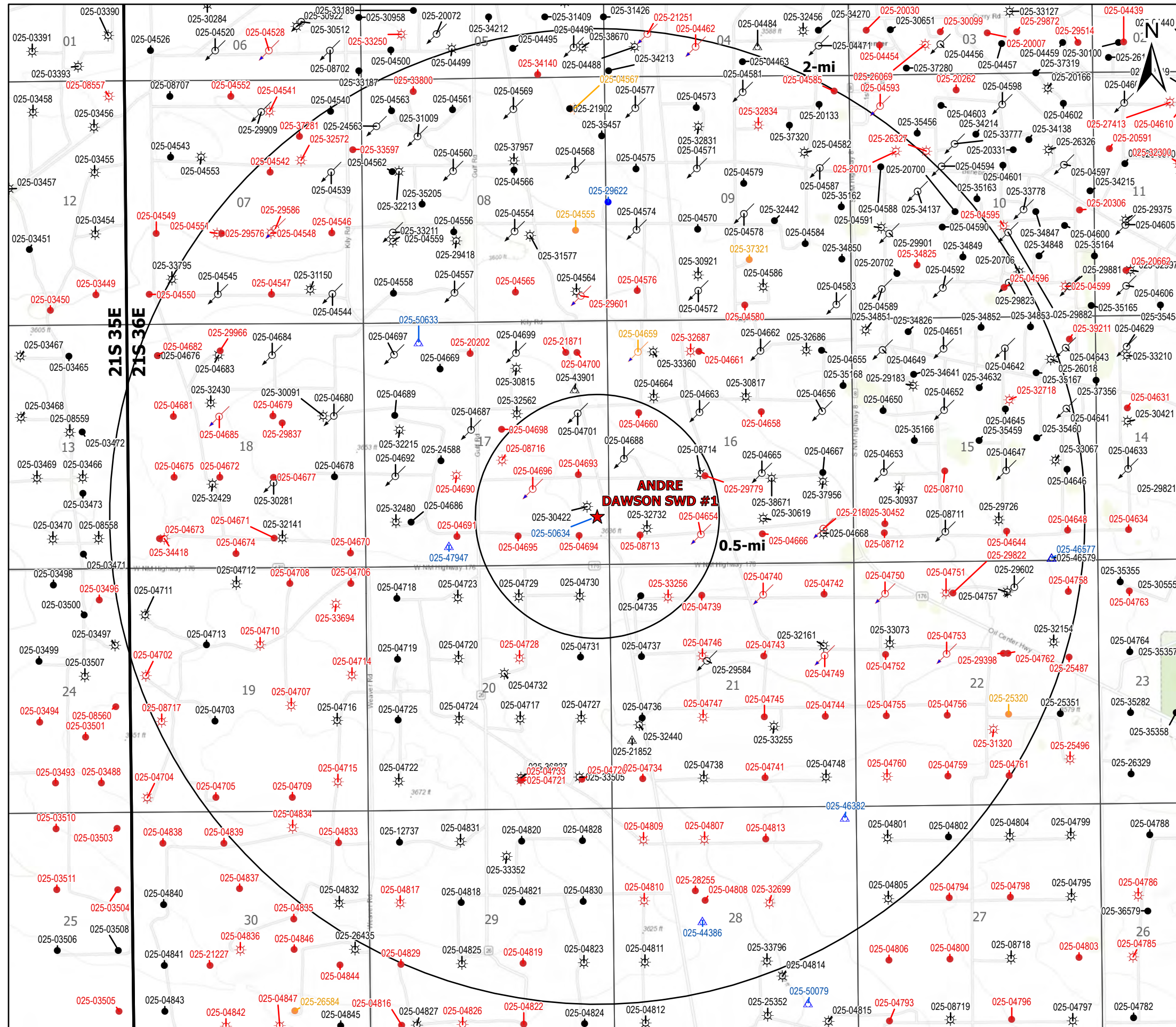
- ★ Proposed SWD
- Unleased Minerals - BLM Owned
- Unleased Minerals/Unknown - Private Owned
- Private Mineral Leases
- BLM Mineral Leases
- NMSLO Mineral Leases

<b>Mineral Lease Area of Review</b>		
<b>ANDRE DAWSON SWD #1</b> LEA COUNTY, NEW MEXICO		
Proj Mgr: Nate Alleman	February 01, 2023	Mapped by: Ben Bockelmann
Prepared for: <b>GOODNIGHT</b> MIDSTREAM	Prepared by: <b>ALLCONSULTING</b>	

Source Info: BLM Mineral Ownership (<https://catalog.data.gov/dataset/blm-new-mexico-mineral-ownership>) & NMSLO Ownership (<http://www.nmstatelands.org/maps-gis/gis-data-download/>)







**Legend**

- ★ Proposed SWD
- ⊛ Gas, Active (117)
- ⊛ Gas, Plugged (48)
- ⊛ Gas, Temporarily Abandoned (1)
- ⊙ Injection, Active (71)
- ⊙ Injection, Plugged (14)
- ⊙ Injection, Temporarily Abandoned (1)
- Oil, Active (135)
- Oil, New (1)
- Oil, Plugged (126)
- Oil, Temporarily Abandoned (4)
- ▲ Salt Water Injection, Active (4)
- ▲ Salt Water Injection, New (7)
- ▲ Salt Water Injection, Plugged (1)

Source Info: NMOCD O&G Wells updated 1/17/2023  
 (https://www.emnrd.nm.gov/ocd/ocd-data/ftp-server/l)

### O&G Wells Area of Review

## ANDRE DAWSON SWD #1

LEA COUNTY, NEW MEXICO

Proj Mgr:  
Nate Alleman

February 01, 2023

Mapped by:  
Ben Bockelmann

Prepared for:  
**GOODNIGHT**  
 MIDSTREAM

Prepared by:  
**ALLCONSULTING**

AOR Tabulation for Andre Dawson SWD #1 (Top of Injection Interval: 4,287')							
Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Penetrate Inj. Zone?
EUNICE MONUMENT SOUTH UNIT #422	30-025-04654	Plugged	CHEVRON U S A INC	8/7/2002	N-16-21S-36E	Plugged (4,065)	No
EUNICE MONUMENT SOUTH UNIT #381	30-025-04660	Plugged	CHEVRON U S A INC	3/6/1935	E-16-21S-36E	Plugged (4,150)	No
EUNICE MONUMENT SOUTH UNIT #404	30-025-04688	Injection	Empire New Mexico LLC	5/20/1935	L-16-21S-36E	4,026	No
EUNICE MONUMENT SOUTH UNIT #405	30-025-04693	Plugged	CHEVRON U S A INC	9/30/1956	I-17-21S-36E	Plugged (4,084)	No
EUNICE MONUMENT SOUTH UNIT #420	30-025-04694	Plugged	CHEVRON U S A INC	Unknown*	P-17-21S-36E	Plugged (4,071)	No
EUNICE MONUMENT SOUTH UNIT #419	30-025-04695	Plugged	XTO ENERGY, INC	8/23/1935	O-17-21S-36E	Plugged (4,101)	No
EUNICE MONUMENT SOUTH UNIT #406	30-025-04696	Plugged	Empire New Mexico LLC	1/21/2013	J-17-21S-36E	Plugged (4,116)	No
EUNICE MONUMENT SOUTH UNIT #380	30-025-04701	Injection	Empire New Mexico LLC	10/21/1934	H-17-21S-36E	4,095	No
DEVONIAN STATE #002	30-025-04729	Gas	CITATION OIL & GAS CORP	7/6/1935	B-20-21S-36E	3,729	No
DEVONIAN STATE #003	30-025-04730	Gas	CITATION OIL & GAS CORP	10/26/1935	A-20-21S-36E	3,934	No
EUNICE MONUMENT SOUTH UNIT #440	30-025-04735	Oil	Empire New Mexico LLC	11/17/1935	D-21-21S-36E	4,072	No
EUNICE MONUMENT SOUTH UNIT #421	30-025-08713	Plugged	CHEVRON U S A INC	8/30/1935	M-16-21S-36E	Plugged (3,941)	No
STATE C #003	30-025-08714	Gas	J R OIL, LTD. CO.	11/16/1935	K-16-21S-36E	3,851	No
COLEMAN #001	30-025-08716	Plugged	CIMAREX ENERGY CO. OF COLORADO	3/24/2011	J-17-21S-36E	Plugged (4,005)	No
EUNICE MONUMENT SOUTH UNIT #403	30-025-29779	Plugged	Empire New Mexico LLC	2/18/1987	K-16-21S-36E	Plugged (4,200)	No
MEYER B 17 #003	30-025-30422	Gas	PENROC OIL CORP	8/10/1988	P-17-21S-36E	3,750	No
STATE C #005	30-025-32732	Gas	J R OIL, LTD. CO.	11/16/1994	M-16-21S-36E	3,900	No
ARNO TT RAMSAY NCT C #019	30-025-33256	Plugged	CONOCOPHILLIPS COMPANY	2/20/1996	D-21-21S-36E	Plugged (3,775)	No

**Notes:**

- No wells within a 1/2-mile AOR penetrated the injection interval.
- Unknown\* - Indicates that there was no spud date available from the NM OCD Imaging - Well File Search.

<b>Andre Dawson SWD #1 - Affected Party Notification Analysis</b>				
<b>Entity</b>	<b>Address</b>	<b>City</b>	<b>State</b>	<b>Zip Code</b>
<b>Land Owner</b>				
Monte Guy Morton	P.O. Box 917	Denton	TX	76202
<b>Mineral Owner</b>				
New Mexico BLM	620 E Greene St.	Carlsbad	NM	88220
<b>OCD District</b>				
NMOCD District 1	1625 N. French Drive	Hobbs	NM	88240
<b>Leasehold Operators</b>				
Chevron USA, Inc. (CHEVRON USA INC, CHEVRON U S A INC)	6301 Deauville Blvd	Midland	TX	79706
Citation Oil & Gas Corporation (CITATION O&G CORP, CITATION OIL AND GAS CORP)	P.O. Box 690688	Houston	TX	77269
Commision of Public Lands - State Lands Office	310 Old Santa Fe Trail	Santa Fe	NM	87501
Conocophillips Company (CONOCOPHILLIPS CO)	P.O. Box 7500	Bartlesville	OK	74005
Empire New Mexico LLC	2200 S. Utica Place, Suite 150	Tulsa	OK	74114
J R Oil, LTD. Co.	P.O. Box 52647	Tulsa	OK	74152
OXY USA Limited Partnership (OXY USA WTP LMYD PTNRSHIP)	5 Greenway Plaza, Suite 110	Houston	TX	77046-0521
Penroc Oil Corporation (PENROC OIL CORP)	P.O. Box 2769	Hobbs	NM	88241
XTO Energy, Inc.	500 W. Illinois Ave, Suite 100	Midland	TX	79701
<p><b>Notes:</b> The table above shows the Entities who were identified as parties of interest requiring notification on either the 1/2-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2). The names listed above in parenthesis, are the abbreviated entity names used on either the 1/2-mile well detail list (Attachment 2) or on the 2-mile Mineral Lease Map (Attachment 2).</p>				



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HOBBS NM 88240-9273

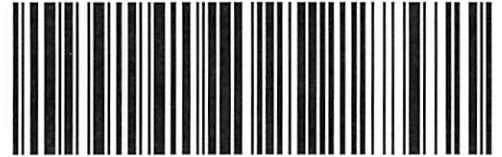
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BARTLESVILLE OK 74005-7500

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JR Oil, LTD. Co.  
PO BOX 52647  
TULSA OK 74152-0647

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Penroc Oil Corporation  
PO BOX 2769  
HOBBS NM 88241-2769

XTO Energy, Inc.  
500 W ILLINOIS AVE STE 100  
MIDLAND TX 79701-4337

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OXY USA Limited Partnership  
5 GREENWAY PLZ STE 110  
HOUSTON TX 77046-0521

Empire New Mexico LLC  
220 SOUTH UTICA PLACE SUITE 150  
TULSA OK 74114-0000



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Commission of Public Lands  
310 OLD SANTA FE TRAIL  
HOUSTON TX 77269-0000

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6301 DEAUVILLE  
MIDLAND TX 79706-2964

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CARLSBAD NM 88220-6292

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Monte Guy Morton  
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DENTON TX 76202-0917