BEFORE THE OIL CONSERVATION DIVISION EXAMINER HEARING OCTOBER 5, 2023

CASE No. 23810

CABALLO CLGC EXTENSION PILOT PROJECT UNDER R-21061

LEA COUNTY, NEW MEXICO



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

APPLICATION OF EOG RESOURCES, INC. FOR A TWO-YEAR EXTENSION OF ITS CLOSED LOOP GAS CAPTURE PILOT PROJECT AUTHORIZED UNDER ORDER NO R-21061, LEA COUNTY, NEW MEXICO.

CASE NO. 23810

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

APPLICATION OF EOG RESOURCES, INC. FOR A TWO-YEAR EXTENSION OF ITS CLOSED LOOP GAS CAPTURE PILOT PROJECT AUTHORIZED UNDER ORDER NO R-21061, LEA COUNTY, NEW MEXICO.

CASE NO. 23810

APPLICATION

EOG Resources, Inc. ("EOG") (OGRID No. 7377) through its undersigned attorneys, hereby files this application with the Oil Conservation Division for a two-year extension of its closed loop gas capture pilot project authorized under Order No. R-21061 until December 31, 2025 ("Pilot Project"), with the option to request additional two-year extensions. In support of this application, EOG states:

- 1. EOG is the operator of the **Caballo 23 Fed No. 2H Well** (API No. 30-025-40051), a horizontal well located in the E/2 W/2 (Unit C) of Section 23, Township 25 South, Range 33 East, NMPM, in Lea County, New Mexico.
- 2. This well produces from the Bone Spring formation (Red Hills; Upper Bone Spring Shale Pool [Pool Code 97900]) and is dedicated to a standard horizontal well spacing unit comprised of the E/2 W/2 of said Section 23.
- 3. EOG is authorized under Order R-21061 to use the Caballo 23 Fed No. 2H Well to engage in a closed loop gas capture pilot project to occasionally inject produced gas into the Leonard Shale interval of the Bone Spring formation at a total vertical depth of approximately 9,418 feet to 9,457 feet along the horizontal portion of the wellbore at surface injection pressures

of no more than 3,500 psi. The source of the produced gas will be the Bone Spring, Wolfcamp and Atoka formations.

- 4. Approval will allow EOG to continue intermittent injection of produced gas into the subject well for the purpose of temporary storage and later recovery to avoid the shut-in of producing wells or the temporary flaring of gas during pipeline capacity constraints, mechanical difficulties, plant shutdowns, or other events impacting the ability to deliver gas into a pipeline. Approval also will reduce impacts associated with temporary interruptions of gas pipeline services and midstream operations and help develop standard practices for similar projects.
- 5. The Division administratively extended Order R-21061 through December 31, 2023. *See* Administrative Approval, attached as **Exhibit A**. However, the Division required that further extensions be approved only after notice and hearing.
- 6. The Caballo 23 Fed No. 2H well underwent and passed a mechanical integrity test on September 1, 2023. EOG will be setting a packer at approximately 9,050 feet.
- 7. Approval of this pilot project is in the best interests of conservation, the prevention of waste, and the protection of correlative rights.

WHEREFORE, EOG Resources, Inc. requests that this Application be set for hearing before an Examiner of the Oil Conservation Division on October 5, 2023, and that after notice and hearing this Application be approved.

Respectfully submitted,

HOLLAND & HART LLP

By:

Michael H. Feldewert
Adam G. Rankin
Paula M. Vance
Post Office Box 2208
Santa Fe, NM 87504
505-998-4421
505-983-6043 Facsimile
mfeldewert@hollandhart.com
agrankin@hollandhart.com
pmvance@hollandhart.com

ATTORNEYS FOR EOG RESOURCES, INC.

CASE :

Application of EOG Resources, Inc. for a Two-Year Extension of its Closed Loop Gas Capture Pilot Project Authorized Under Order No. R-21061, Lea County, New Mexico. Applicant in the above-styled cause seeks an order authorizing a two-year extension of its closed loop gas capture pilot project approved under Order No. R-21061 until December 31, 2025 ("Pilot Project"), with the option to request additional two-year extensions. EOG is authorized under Order R-21061 to use the **Caballo 23 Fed No. 2H Well** (API No. 30-025-40051) to engage in a closed loop gas capture pilot project to occasionally inject produced gas into the Leonard Shale interval of the Bone Spring formation at a total vertical depth of approximately 9,418 feet to 9,457 feet along the horizontal portion of the wellbore at surface injection pressures of no more than 3,500 psi. The source of the produced gas is the Bone Spring, Wolfcamp, and Atoka formations. The well is a horizontal well located in the E/2 W/2 (Unit C) of Section 23, Township 25 South, Range 33 East, NMPM, in Lea County, New Mexico. It is currently producing from the Bone Spring formation (Red Hills; Upper Bone Spring Shale Pool [Pool Code 97900]) and dedicated to a standard horizontal well spacing unit comprised of the E/2 W/2 of Section 23. The subject acreage is located approximately 20 miles west of Jal, New Mexico.

EXHIBIT A

State of New Mexico

Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham

Governor

Sarah Cottrell Propst Cabinet Secretary

Todd E. Leahy, JD, PhDDeputy Secretary

Adrienne Sandoval, Director Oil Conservation Division



EOG Resources c/o Sarah Mitchell

E-mail: sarah mitchell@eogresources.com

RE: Order R-21061; Extension of Pilot Project

GAS CAPTURE PILOT PROJECT INVOLVING THE OCCASIONAL INJECTION OF PRODUCED GAS INTO THE BONE SPRING FORMATION, LEA COUNTY, NEW MEXICO

Ms. Mitchell,

The Oil Conservation Division (OCD) has reviewed your request, received on January 28, 2021, to extend the authority granted by Order R-21061 for the Pilot Project that involves the intermittent injection of gas into well(s) including the Caballo 23 Federal No. 2H well (30-025-40051) ("the CLGC Well"). The request, which was received prior to the deadline, states that EOG Resources, Inc. (EOG) has concluded that the Pilot Project is a safe and effective way to significantly reduce flaring due to third party down time.

EOG observed an elevated pressure within the intermediate casing of the CLGC Well on August 24, 2022. The maximum pressure reached was 657 psi and injection into the CLGC Well was ceased.

Per the first supplemental information for this request, received on September 15, 2022, EOG requests to extend the authority granted by Order R-21061 for the purpose of temporary storage and recovery to prevent waste, reduce impacts associated with temporary interruptions of gas pipeline services and midstream operations, and to develop standard practices for similar projects.

EOG met with OCD on October 17, 2022, to discuss the circumstances that led to the elevated pressure within the intermediate casing of the CLGC Well. The pressure history for the CLGC Well indicates that there is a slow and steady increase in pressure of approximately 50 psi every 5 weeks that is unrelated to the injection activity. EOG believes that the source of the influx causing the slow and steady pressure increase is a formation shallower than the injection interval.

Per the second supplemental information for this request, received on October 28, 2022, EOG

Order R-21061; Extension of Pilot Project

EOG Resources Page 2 of 2

requests to extend the authority granted by Order R-21061 through December 31, 2023, with the option of an additional extension, during which time EOG will pursue additional options for injection to increase flexibility and functionality of its closed loop gas capture activity. EOG proposed a pressure management procedure to manage the pressure within the intermediate casing of the CLGC Well.

With the additional requirements of this extension that are stated below, it is the OCD's understanding that Conclusions of Law Paragraphs 9 to 15 of Order R-21061 are accurate.

The OCD finds that for the reasons above, the granting of this request to extend Order R-21061 is in the interest of conservation, will prevent waste, and will protect the environment. Therefore, a two-year and eleven-month extension to Order R-21061 extending its termination date to December 31, 2023, is granted with the following conditions:

- 1. If the intermediate casing pressure exceeds five hundred pounds per square inch (500 psi) or the surface casing pressure exceeds one hundred pounds per square inch (100 psi); EOG shall notify the OCD Engineering Bureau at ocd.engineer@emnrd.nm.gov within twenty-four hours.
- 2. If the intermediate casing pressure exceeds one thousand pounds per square inch (1,000 psi); EOG shall immediately cease injection into the CLGC Well and within twenty-four hours notify the OCD Engineering Bureau at ocd.engineer@emnrd.nm.gov. EOG shall not recommence injection until approval to do so is granted by the OCD.
- 3. EOG shall monitor the intermediate casing pressure, but not bleed it down while injecting unless doing so is necessary for safety or the integrity of the CLGC Well.
- 4. When the intermediate casing pressure reaches 50 psi and the pressure increase is unrelated to injection, then EOG shall bleed the pressure down to 0 psi. EOG shall maintain a record of each time the intermediate casing is bled off that includes the date of each event and pressure just prior to bleeding it off. EOG shall review its record whenever the frequency of bleed off events warrants it and no less than once every three months to determine the rate at which pressure is increasing within the intermediate casing. If that increase is determined to be greater than 50 psi per month, then EOG shall cease injection into the well and notify the OCD Engineering Bureau at ocd.engineer@emnrd.nm.gov within twenty-four hours. EOG shall not recommence injection until approval to do so is granted by the OCD.
- 5. No further extensions of R-21061 shall be granted administratively.

All requirements of R-21061 remain in full force and effect.

| WINL | DATE: | 12/23/22 | |
|-------------------|-------|----------|--|
| ADRIENNE SANDOVAL | | | |
| Director | | | |

cc: Case File 20965

Well file 30-025-40051 Bureau of Land Management

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

APPLICATION OF EOG RESOURCES, INC. FOR A TWO-YEAR EXTENSION OF ITS CLOSED LOOP GAS CAPTURE PILOT PROJECT AUTHORIZED UNDER ORDER NO R-21061, LEA COUNTY, NEW MEXICO.

CASE NO. 23810

SELF-AFFIRMED STATEMENT OF RYAN YARGER, P.E., FACILITIES ENGINEER

- My name is Ryan Yarger, P.E., and I am employed by EOG Resources, Inc.
 ("EOG") as a Facilities Engineer.
- 2. My responsibilities include the Permian Basin of New Mexico. I have not previously testified before the New Mexico Oil Conservation Division as an expert witness in petroleum engineering. My resume, attached as **EOG Exhibit A-1**, outlines my education and work experience which I believe qualify me to testify as an expert in petroleum engineering.
- 3. I am familiar with the application filed by EOG in this matter and with the underlying facts and issues and have conducted an engineering review of the subject well.

Background

4. Attached as **EOG Exhibit A-2** is Order No. R-21061, dated January 31, 2020. It authorizes EOG to conduct a closed loop gas capture ("CLGC") pilot project ("Pilot Project") using EOG's **Caballo 23 Federal Well No. 2H** (API No. 30-025-40051) (the "Well"). The Well is a horizontal well completed in the Bone Spring formation within a spacing unit comprised of the W/2 of Section 23, Township 25 South, Range 33 East, NMPM, in Lea County, New Mexico, and dedicated to the Red Hills; Upper Bone Spring Shale Pool [Pool Code 97900].

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. A
Submitted by: EOG Resources, Inc.
Hearing Date: October 5, 2023
Case No. 23810

- 5. Under Order R-21061, EOG is authorized to use the Well to occasionally inject produced gas into the Avalon Shale interval of the Bone Spring formation at a total vertical depth of approximately 9,418 feet to 9,457 feet along the horizontal portion of the wellbore at surface injection pressures of no more than 3,500 psi. The sources of the produced gas are the Bone Spring, Wolfcamp, and Atoka formations. The Division authorized the Pilot Project after the presentation of evidence from an initial feasibility study performed in collaboration with the Division.
- 6. After the installation of permanent infrastructure and additional wellhead equipment, the Well was placed into regular CLGC service on October 7, 2021. The Well forms the cornerstone of EOG's CLGC program as it is centrally located within EOG's core area of Lea County operations and accepts injected gas at higher rates than any of EOG's other CLGC wells. The Well can sustain injection rates at or above 10 million standard cubic feet of gas per day ("MMSCFD") with a surface pressure of 1,100 psi. In comparison, EOG's other CLGC Pilot Project wells can only sustain rates of approximately 5 MMSCFD with equivalent surface pressures.
- 7. The Division administratively extended Order R-21061 through December 31, 2023. See Administrative Extension, attached as <u>EOG Exhibit A-3</u>. However, the Division required that further extensions be approved only after notice and hearing and imposed certain conditions on the extension approval. See id.
- 8. Accordingly, EOG filed this application for hearing requesting an order for a two-year extension of its Pilot Project authorized under Order No. R-21061 until December 31, 2025 ("Pilot Project") with the option to request additional two-year extensions.
- 9. The Well has exhibited some mild casing pressure anomalies that have been thoroughly evaluated. Based on EOG's observations and data, described in detail below, these

anomalies are now understood and do not present a risk to continued operation of the Well for CLGC injection. For all the reasons outlined in my testimony, and in the corresponding testimony of, Brice Letcher, EOG's Production Engineer and, Patrick Geesaman, EOG's Petroleum Geologist, the Pilot Project should be extended and this application should be approved.

Intermediate Casing Pressure Fluctuations

- 10. During the afternoon of August 24, 2022, EOG observed above average (>450 psi) intermediate casing pressures during normal CLGC operations on the Well. Injection was occurring through the production casing/tubing annulus, as approved, with a peak surface injection pressure of 916 psi. During this injection event, the intermediate casing pressure rose steadily to a peak of 657 psi. EOG discontinued injection and EOG engineers were notified.
- 11. On the morning of August 25, 2022, EOG bled the pressure in the intermediate casing down. The intermediate casing pressure quickly returned to 0 psi after flowing approximately 0.5 barrels of water with no gas. EOG pumped approximately 0.5 barrels of water back into the intermediate casing and increased the pressure in the intermediate casing to 1,000 psi, holding for 30 minutes. EOG then increased the pressure to 1,500 psi, holding for 15 minutes, before bleeding the pressure down.
- 12. During this test sequence, pressure within the intermediate casing held steady and EOG did not observe any other behavior indicating communication between the intermediate casing, production casing, surface casing, or with the formation. As gas injection resumed that day, the intermediate casing pressure peaked at 335 psi at 20:15 central time on August 25, 2022, and declined after that during normal injection

operations. The following morning on August 26, 2022, the intermediate casing pressure was at 266 psi. EOG proceeded to bleed the pressure off.

- 13. EOG notified the Division on August 26, 2022, that it had experienced above-normal intermediate casing pressures, as per the conditions of Order R-21061. At the request of the Division, EOG bled the intermediate casing pressure down that afternoon. By that time, the intermediate casing pressure had naturally attenuated to 18 psi. Following the Division request, EOG bled the intermediate casing pressure down, taking about one minute to flow approximately a half-gallon of water. The casing was left open for 15 minutes with no additional flow observed. The pressure remained near 0 psi regardless of whether EOG was injecting on or producing the Well.
- 14. <u>EOG Exhibit A-4</u> is a copy of the C-103 notice that EOG filed with Division describing EOG's observations and actions regarding the observed intermediate casing pressure fluctuations, notification EOG provided to the Division, and the Division's instructions.
- 15. As explained in EOG Exhibit A-4, EOG examined pressure trends and the difference in the temperature of the gas lift gas compared to the CLGC gas and determined that the pressure fluctuations observed in the intermediate casing were attributable to thermal expansion.
- 16. As noted in EOG Exhibit A-4, the pressure fluctuations are similar to behavior previously observed on May 18, 2020, and described in a Form C-103 that was filed with the Division on May 28, 2020, attached as **EOG Exhibit A-5**.
- 17. Based on EOG's observations and data, EOG believes that the observed intermediate casing pressure fluctuations are not due to pressure communication from CLGC

injection. The data instead strongly supports EOG's conclusion that the fluctuations are due to thermal expansion.

Intermediate Casing Micro-Annulus

- 18. During EOG's investigation of the intermediate casing pressure fluctuations described above, EOG determined that the Well also exhibits a slow intermediate casing pressure increase of approximately 50 psi per month.
- 19. EOG believes this slow buildup of baseline pressure in the intermediate casing allowed the thermal effects of CLGC injection to elevate the intermediate casing pressure to notification levels, as described above.
- 20. Because there were no hydrocarbons produced at the surface through the intermediate casing and the well has passed mechanical integrity tests, EOG has concluded in discussions with the Division that the observed buildup of bradenhead pressure appears to be originating from a shallow formation at or below the intermediate casing shoe, at approximately 5,005 feet measured depth ("MD"), through a micro-annulus or cement channeling behind the production casing string.
- 21. As noted above, however, all the data, observations, and evidence strongly indicate there is no communication between the production casing and the intermediate casing, nor is there communication between the intermediate casing and the Bone Spring formation.
- 22. While the Division approved extension of EOG's Pilot Project authorization under Order No. R-21061 until December 31, 2023, it included conditions of approval, including a requirement to monitor casing pressures and cease injections if certain pressure levels are reached.

See EOG Exhibit A-3

23. Since the Division extended the Pilot Project's authorization, EOG has had no issues managing or controlling the intermediate casing pressure in the well and received no hydrocarbons through the intermediate casing at the surface. In addition, the rate of change in the intermediate casing pressure has not increased. All observed short-term intermediate casing pressure fluctuations can be positively tied back to the Well's CLGC injection events and the related thermal expansion.

Well Workover & Mechanical Testing

- 24. To address the Division's concerns and to verify the status of the Well, EOG undertook additional work to further confirm the Well's mechanical integrity. EOG's Production Engineer, Brice Letcher, P.E., provides an overview and description of the workover and mechanical integrity test that were performed through a separate self-affirmed statement included in EOG's hearing packet and marked as EOG Exhibit B.
- In sum, the Well underwent and passed a mechanical integrity test on September 5,
 EOG also set a tubing packer at approximately 9,041 feet on September 5, 2023.

Additional CLGC Candidate Evaluation

26. EOG continues to evaluate its well stock for CLGC injection well candidates and is making substantial progress on its other CLGC Pilot Project. Two of the four remaining wells authorized for intermittent injection in a separate CLGC Pilot Project under Order No. R-21747 have been connected to EOG's CLGC system. EOG anticipates connecting the remaining two approved wells under that Pilot Project in the near term. However, these wells will not replace the injection capacity of the Caballo 23 Federal Well No. 2H and the other approved CLGC wells are connected to different high-pressure systems. EOG has not identified additional satisfactory CLGC candidates suitable for intermittent injection at this time. For all the reasons outlined above,

replacing the Caballo 23 Federal Well No. 2H is not necessary. It remains a safe and effective CLGC injection well.

Conclusion

- 27. Given the Well's history, its successful mechanical integrity test, and additional operational and notification safeguards that are in place, it is my opinion that an extension of the CLGC Pilot Project authority and continued use of the Well as a CLGC injector is justified and appropriate.
- 28. The Well remains the cornerstone of EOG's CLGC program and would represent a substantial loss in injection capacity centered in a core area of EOG's operations. However, regardless of the status of Order R-21061, EOG will continue to evaluate additional CLGC opportunities and will leverage the wells separately authorized for a CLGC Pilot Project in Order R-21747.
- 29. In my opinion, approval of this application is in the best interest of conservation, the prevention of waste, and protection of correlative rights.
- 30. Exhibits A-1 through A-5 were either prepared by me or compiled under my direction and supervision.
- 31. 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.

Ryan Yarger, F.E.

10/03/2023 Date

Ryan Yarger, P.E.

2207 Stratford Ct. * Midland, TX 79705 * Phone: (215)-378-3002 * E-Mail: RyanYarger@gmail.com

WORK EXPERIENCE

EOG Resources – *Midland*, *TX*

Sr. Facilities Engineer

March 2021 - Present

- Managing facility and pipeline construction for a large section of EOG's Lea County, NM acreage.
- Forecasting gathering needs and planning infrastructure to support development and reduce long-term LOE.
- Coordinating field gas supply for electric and dual fuel frac fleets, including compression and third parties.
- Engineer for Closed Loop Gas Capture and lean fuel, both hallmark emissions projects.
- Overseeing department ESG initiatives, focusing on emissions forecasting and project coordination.
- Providing engineering support for regulatory initiatives, including surface commingling, permitting, and field tours.

Facilities Engineer II

July 2018 – March 2021

- Oversaw Loving County, TX infrastructure for 20% of the division's wells.
- Reviewed key areas of centralized tank battery design, including instrument air, automation equipment, and hydraulics.
- Constructed mobile infrastructure and processing/metering trailers to support electric frac fleets.
- Served as equipment specialist for RTP pipe, air compressors, gas measurement, control valves, and PVF.
- Performed root-cause analyses for department safety incidents and assisted with go-forward initiatives.

FTS International – Shreveport, LA

March 2017 – June 2018

Field Engineer I

- Provided real-time technical assistance and expertise on location during stimulation treatments, including new hire training.
- Monitored live treatment data to document stages and confirm that quoted specifications were met.
- Collaborated with Service Supervisors/treaters to properly execute stimulations.
- Composed post job reports and field tickets for customers, including treatment summaries and analyses of events.
- Managed proppant and chemical inventories for assigned jobs and ensured correct QA/QC.

Hathaway LLC - Bakersfield, CA

September 2016 – March 2017

Production Engineer

- Monitored well/field performance and evaluated for optimization opportunities and upside potential.
- Performed root-cause analyses on down/problem wells and developed solutions to present to management.
- Served as lead lease operator for Hathaway LLC's largest lease, managing 30,000 BBL/day of gross fluid.
- Assisted with project management and design for a facility expansion aimed at handling doubled throughput.
- Facilitated automation projects, including SCADA integration and overseeing Hathaway LLC's tank alarm system.

Vaquero Energy – Santa Maria, CA

May 2016 – August 2016

Intern

- Assisted with workover planning, LWD interpretation, well log calculations, facility optimization, and drilling operations.
- Developed options for remediating and/or replacing an injection well approaching its maximum allowable surface pressure.
- Investigated remedial inner liner performance in cyclic steam wells as compared to those with original completions.
- Identified improperly abandoned wells and built wellbore diagrams for a potential lease acquisition.
- Performed historical review and performance analysis on Monterey formation produced water injection wells.

ConocoPhillips – *Anchorage*, *AK*

May 2015 – August 2015

Exploration & Production Intern

- Performed a comprehensive study on rock production and casing collapse in the Kuparuk River Unit.
- Made proposal, forecasted production, and ran economics for a rock production remediation program.

Beacon Energy Services – Signal Hill, CA

June 2014 - August 2014

Intern

- Assisted with project management, cost estimating, and contract bidding for midstream petroleum work.
- Took part in various field operations, with jobsites ranging from urban refineries to remote terminals.

EDUCATION

University of Wyoming – *Laramie*, WY

Bachelor of Science in Petroleum Engineering

- Minor in Geology
- Graduated Magna Cum Laude
- Cumulative GPA: 3.96/4.00
- Received Honor Book Award as Top Graduating Senior in Petroleum Engineering

CREDENTIALS

- Licensed Professional Engineer
 - o TX: 138866
 - o NM: 26815

INDUSTRY INVOLVMENT

- Society of Petroleum Engineers Permian Basin Section
 - o Past Board Member, Chairing PR & Advertising
 - o Past Completions & Operations Study Group Committee Member
- Interstate Oil & Gas Compact Commission
 - o Standing Committee Member

August 2012 - May 2016

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

APPLICATION OF EOG RESOURCES, INC. FOR A GAS CAPTURE PILOT PROJECT INVOLVING THE OCCASIONAL INJECTION OF PRODUCED GAS INTO THE BONE SPRING FORMATION, LEA COUNTY, NEW MEXICO

CASE NO. 20965 ORDER NO. R-21061

ORDER OF THE DIVISION

This case came on for hearing at 8:15 a.m. on December 12, 2019, in Santa Fe, New Mexico, before Examiner Dylan Rose-Coss..

NOW, on this 31st day of January, 2020, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner,

FINDS THAT

- (1) Due notice has been given, and the OCD has jurisdiction of this case and the subject matter.
- (2) EOG Resources, Inc. ("EOG") seeks approval of a gas capture pilot project ("Project") involving the intermittent injection of produced gas into the Bone Spring formation (Red Hills; Upper Bone Spring Shale Pool, Pool Code 97900) within the following 160 acres, more or less, located in Lea County, New Mexico:

Township 25 South, Range 33 East, NMPM Section 23: E/2 W/2

- (3) The Project involves the injection of excess gas volume from EOG's gathering system into an existing producing gas well for temporary storage. The excess gas volume is the result of the interruption of pipeline service by a third-party gas processing facility that is contracted to take the produced gas from EOG's gathering system.
- (4) The Project will inject the excess gas volume into EOG's Caballo 23 Federal Well No. 2H (API No. 30-025-40051) ("Well"), a horizontal well with a surface location of 50 feet from the North line and 2200 feet from the West line and a bottomhole location of 4911 feet from the North line and 2221 feet from the West line of Section 23, Township 25 South, Range 33 East, NMPM, Lea County, New Mexico. The

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. A-2
Submitted by: EOG Resources, Inc.
Hearing Date: October 5, 2023
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Well is currently producing from the Bone Spring formation within a standard horizontal well spacing unit comprised of the W/2 of Section 23.

- (5) EOG will intermittently inject the produced gas through the Well into the upper Bone Springs formation, which is sometimes referred to as the Avalon Shale, or the Leonard Shale, at a total vertical depth ("TVD") of approximately 9,418 to 9,457 feet along the perforated portion of the wellbore at a surface injection pressure not to exceed 3,500 pounds per square inch ("psi").
- (6) EOG appeared through counsel and presented testimony and exhibits that support the following findings of fact:
 - (a) The goal of the Project is to divert produced gas resulting from the interruption of the gathering system and temporarily store this produced gas in an active production well.
 - (b) The Project will have the beneficial effect of storing produced gas that normally would be flared, which prevents waste and protects correlative rights, public health, and the environment.
 - (c) The Well and associated gathering system are located approximately twenty (20) miles west of Jal, New Mexico.
 - (d) The Project area is encompassed by a 320-acre horizontal spacing unit in which EOG is the sole mineral interest owner.
 - (e) EOG's reservoir characterization for the Upper Bone Spring Shale injection interval included a cross section and formation isopach. The characterization demonstrates that the formation is a siliceous mudstone with low permeability that will prohibit migration of the produced gas away from the wellbore and facilitate greater recovery of the produced gas. Additionally, the injection interval is bounded above and below by impermeable limestone formations that will prohibit the produced gas from migrating out of the Upper Bone Spring Shale.
 - (f) EOG's reservoir model demonstrates that produced gas will not migrate from the formation, interfere with other wells, or affect underground sources of drinking water ("USDWs").
 - (g) The Project will not cause a negative effect on ultimate well recovery or any remaining hydrocarbon resources in the injection interval.

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- (h) EOG will inject the produced gas through the Well to a TVD of 9,456 feet with a maximum allowable surface pressure ("MASP") of 3,500 psi.
- (i) The well diagram depicts the casing, cementing, and perforation details of the Well.
- (j) The Well is constructed with 5½-inch, 20 pound, P-110 production casing with a burst pressure rating equal to 12,640 psi.
- (k) The casing burst pressure is greater than 120% of the MASP plus the hydrostatic pressure from a full column of reservoir fluid.
- (l) The MASP will not exceed 90% of the horizon's propagation pressure minus the expected bottom hole hydrostatic pressure generated by a fluid column consisting of the injected gas.
- (m) EOG performed a mechanical integrity test ("MIT") and completed a cement bond log ("CBL") for the Well on November 24, 2019.
- (n) The MIT confirmed that the Well's casing is capable of a load which is at least 116 percent of the MASP, which demonstrates mechanical integrity.
- (o) The CBL indicated that there is adequate cement coverage throughout the entire vertical length of the Well that will seal strata and provide sufficient tie-back between casing intervals.
- (p) To determine the area of review ("AOR") for the Well, EOG used the horizontal segment of the Well as the center line and the endpoints based on the surface and bottom-hole locations to delineate the one-half mile radius.
- (q) Within the AOR, EOG identified forty-five (45) producing wells and three (3) plugged wells that penetrate the injection interval, all of which are properly cased and cemented to prevent lateral and vertical migration of the produced gas.
- (r) The source of the produced gas is the Bone Spring, Wolfcamp and Atoka formations.
- (s) The produced gas will be delivered to the Well by a localized gas lift compressor station, and if necessary, an additional compressor station installed on site.

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(t) The analysis of the gas sample collected from the Well indicates

- (t) The analysis of the gas sample collected from the Well indicates that the produced gas does not contain appreciable volumes of corrosive gas such as H₂S or CO₂ that may damage the casing.
- (u) The produced gas will be injected through the tubing and the open annular space between the tubing and the production casing and will not require the use of a packer.
- (v) EOG will install equipment on the Well to prevent the surface pressure from exceeding the MASP.
- (w) The Project will be conducted remotely through an existing Supervisory Control and Data Acquisition ("SCADA") system, including the collection of all relevant data for safe operations, such as production flow rate, injection gas flow rate, and surface pressure.
- (x) EOG will prepare a response plan to address any environmental or engineering emergency that may occur during the Project.
- (y) During the Project, EOG will submit a Form C-115 each month that identifies the production volumes, injection volumes, pressures and days of operation.
- (z) Following the completion of the Project, EOG will submit a report compiling the data collected by the SCADA system, including injection rates, injection volumes, injection durations, maximum surface pressure during injection, production rates, gas recovery rates, and delta pressures for adjacent wells during injection.
- (aa) EOG provided proper notice to affected persons, including the surface landowner, and published notice in a newspaper with general circulation in the county where the Project is located.
- (bb) Prior to the hearing, EOG presented the Project to representatives of the Bureau of Land Management and the New Mexico State Land Office.
- (7) Marathon Oil Permian, LLC and BTA Oil Producers, LLC appeared at the hearing, but did not oppose the application. No other party appeared at the hearing or opposed the application.

Case No. 20965 Order No. R-21061 Page 5 of 8

(8) After the hearing and during the OCD's technical review of the

Application, EOG submitted the calculations used to develop the MASP.

CONCLUSIONS OF LAW

- (9) EOG has the technical capability, existing and planned infrastructure, and contingent plans to successfully implement the Project.
- (10) The geologic and reservoir evidence demonstrates with reasonable probability that the injection interval can accommodate the produced gas, and that the produced gas will be contained within the injection interval.
- (11) The Well is properly cased and cemented to protect USDWs within the Project area.
- (12) The MASP of 3,500 psi will not degrade the mechanical integrity of the Well or cause fracturing in the injection interval or confining layers.
- (13) Additional monitoring requirements are required to ensure that the Well complies with the MASP.
- (14) The active and plugged wells located within the AOR are adequately cased and cemented such that they will not become a conduit for the escape of produced gas from the injection interval, and accordingly, no well within the AOR requires remedial work prior to implementing the Project.
- (15) The Project will not, in reasonable probability, cause waste or harm correlative rights, public health, or the environment.

ORDER

- (1) EOG is authorized to conduct the Project as described in Findings ¶¶ 1-6.
- (2) EOG (OGRID 7377) is designated as the operator of the Project.
- (3) EOG shall inject produced gas into the Well only from the Bone Spring, Wolfcamp, and Atoka formations.
- (4) EOG shall inject produced gas that has a composition consistent with the gas sample analysis referenced in Finding \P 6(t).
- (5) EOG shall deliver the produced gas to the Well through the existing gathering system, provided however that EOG may modify the gathering system to achieve the MASP of 3500 psi.

Case No. 20965 Order No. R-21061 Page 6 of 8

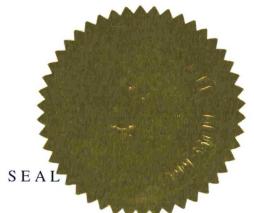
- (6) EOG shall equip the Well with a pressure control device that limits the MASP to 3,500 psi.
- (7) Following termination of the Project, EOG shall inspect and conduct a mechanical integrity test on the vertical portion of the Well in accordance with 19.15.16 NMAC.
- (8) EOG shall monitor the Well with a SCADA system during the Project, collect all relevant data for safe operations as specified in Fact \P 6(z), and maintain the data for inspection at the request of OCD.
- (9) EOG shall equip the Well to continuously monitor the pressure in the annulus between the 5½-inch and 85%-inch casings.
- (10) EOG shall immediately notify the OCD's District I office supervisor and the Engineering Bureau if it detects an increase in the pressure in the annulus between the 5½-inch and 8½-inch casings.
- (11) EOG shall conduct a test to determine if a fluid column of liquid occurs during a period of injection with high rate, volume, and pressure. The test shall include the following steps: (a) allow the Well to produce down the flowline until the standard production pressure has been reached within the annulus; (b) shut-in the Well for one (1) hour; and (c) take a fluid level reading by a commonly accepted method such as an echo meter. EOG may conduct additional tests using different methodology at its discretion. At least ten (10) business days prior to conducting the test, EOG shall submit the proposed test conditions and protocol for OCD's approval.
- (12) EOG shall prepare and submit to the OCD's District I office supervisor and Engineering Bureau a plan specifying the procedures to address any environmental or engineering emergency during the Project. EOG shall provide written notice to the OCD's District I office supervisor and Engineering Bureau at least forty-eight (48) hours prior to commencing the injection of produced gas into the Well.
- (13) EOG shall immediately notify the OCD's District I office supervisor and the Engineering Bureau in Santa Fe if the tubing or casing of the Well fails, or water, oil, or other fluid leaks from or around the Well or any well located within the AOR.
- (14) If the tubing or casing of the Well fails, or water, oil, or other fluid leaks from or around the Well or any well located within the AOR, EOG shall take all steps as may be timely and necessary, or as otherwise directed by OCD, to correct such failure or leakage.
 - (15) The Project additionally shall comply with 19.15.26.9 & 10 NMAC.

Case No. 20965 Order No. R-21061 Page 7 of 8

- (16) EOG shall submit monthly reports for the Project on Form C-115 in accordance with 19.15.26.13 NMAC. If OCD determines that Form C-115 is not appropriate to report the produced gas for the Project, EOG shall submit monthly reports for the produced gas for the Project on Form C-103.
- (17) EOG shall provide written notice to the OCD's District I office supervisor and Engineering Bureau in Santa Fe upon termination of the Project.
- (18) No later than ninety (90) days following termination of the Project, EOG shall file a report describing the operation and its findings and recommendations, including the information required by Findings $\P\P$ 6(w) and (z), and Order \P 11.
- (19) The authority granted by this Order shall terminate one year after the date of signature by the OCD Director, provided however that the OCD Director, upon the Engineering Bureau's recommendation or a written request from EOG for good cause shown, may extend the authority granted by this Order.
- (20) EOG shall take all steps necessary to ensure that the produced gas enters only the injection interval and does not escape or infiltrate other formations or USDWs or onto the surface through other wells in the AOR.
- (21) Notwithstanding the authority granted by this Order, EOG shall be responsible if the Project causes any harm or damage or threat of harm or damage to protectable fresh water, public health, or the environment.
- (22)) Notwithstanding the authority granted by this Order, EOG shall be responsible for complying with all applicable OCD rules and any other state, federal, or local law or regulation.
- (23) If OCD determines that EOG has failed to comply with this Order, OCD may, after notice and hearing, or without notice and hearing pursuant to NMSA 1978 §§ 70-2-23 or 70-2-31, take any action or impose any sanction authorized by the Oil and Gas Act or OCD rules.
- (24) Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

Case No. 20965 Order No. R-21061 Page 8 of 8

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



STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

ADRIENNE SANDOVAL Director

State of New Mexico Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham

Governor

Sarah Cottrell Propst Cabinet Secretary

Todd E. Leahy, JD, PhDDeputy Secretary

EOG Resources c/o Sarah Mitchell

E-mail: sarah mitchell@eogresources.com

Adrienne Sandoval, Director Oil Conservation Division



BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico

Exhibit No. A-3
Submitted by: EOG Resources, Inc.
Hearing Date: October 5, 2023
Case No. 23810

RE: Order R-21061; Extension of Pilot Project

GAS CAPTURE PILOT PROJECT INVOLVING THE OCCASIONAL INJECTION OF PRODUCED GAS INTO THE BONE SPRING FORMATION, LEA COUNTY, NEW MEXICO

Ms. Mitchell,

The Oil Conservation Division (OCD) has reviewed your request, received on January 28, 2021, to extend the authority granted by Order R-21061 for the Pilot Project that involves the intermittent injection of gas into well(s) including the Caballo 23 Federal No. 2H well (30-025-40051) ("the CLGC Well"). The request, which was received prior to the deadline, states that EOG Resources, Inc. (EOG) has concluded that the Pilot Project is a safe and effective way to significantly reduce flaring due to third party down time.

EOG observed an elevated pressure within the intermediate casing of the CLGC Well on August 24, 2022. The maximum pressure reached was 657 psi and injection into the CLGC Well was ceased.

Per the first supplemental information for this request, received on September 15, 2022, EOG requests to extend the authority granted by Order R-21061 for the purpose of temporary storage and recovery to prevent waste, reduce impacts associated with temporary interruptions of gas pipeline services and midstream operations, and to develop standard practices for similar projects.

EOG met with OCD on October 17, 2022, to discuss the circumstances that led to the elevated pressure within the intermediate casing of the CLGC Well. The pressure history for the CLGC Well indicates that there is a slow and steady increase in pressure of approximately 50 psi every 5 weeks that is unrelated to the injection activity. EOG believes that the source of the influx causing the slow and steady pressure increase is a formation shallower than the injection interval.

Per the second supplemental information for this request, received on October 28, 2022, EOG

Order R-21061; Extension of Pilot Project

EOG Resources Page 2 of 2

requests to extend the authority granted by Order R-21061 through December 31, 2023, with the option of an additional extension, during which time EOG will pursue additional options for injection to increase flexibility and functionality of its closed loop gas capture activity. EOG proposed a pressure management procedure to manage the pressure within the intermediate casing of the CLGC Well.

With the additional requirements of this extension that are stated below, it is the OCD's understanding that Conclusions of Law Paragraphs 9 to 15 of Order R-21061 are accurate.

The OCD finds that for the reasons above, the granting of this request to extend Order R-21061 is in the interest of conservation, will prevent waste, and will protect the environment. Therefore, a two-year and eleven-month extension to Order R-21061 extending its termination date to December 31, 2023, is granted with the following conditions:

- 1. If the intermediate casing pressure exceeds five hundred pounds per square inch (500 psi) or the surface casing pressure exceeds one hundred pounds per square inch (100 psi); EOG shall notify the OCD Engineering Bureau at ocd.engineer@emnrd.nm.gov within twenty-four hours.
- 2. If the intermediate casing pressure exceeds one thousand pounds per square inch (1,000 psi); EOG shall immediately cease injection into the CLGC Well and within twenty-four hours notify the OCD Engineering Bureau at ocd.engineer@emnrd.nm.gov. EOG shall not recommence injection until approval to do so is granted by the OCD.
- 3. EOG shall monitor the intermediate casing pressure, but not bleed it down while injecting unless doing so is necessary for safety or the integrity of the CLGC Well.
- 4. When the intermediate casing pressure reaches 50 psi and the pressure increase is unrelated to injection, then EOG shall bleed the pressure down to 0 psi. EOG shall maintain a record of each time the intermediate casing is bled off that includes the date of each event and pressure just prior to bleeding it off. EOG shall review its record whenever the frequency of bleed off events warrants it and no less than once every three months to determine the rate at which pressure is increasing within the intermediate casing. If that increase is determined to be greater than 50 psi per month, then EOG shall cease injection into the well and notify the OCD Engineering Bureau at ocd.engineer@emnrd.nm.gov within twenty-four hours. EOG shall not recommence injection until approval to do so is granted by the OCD.
- 5. No further extensions of R-21061 shall be granted administratively.

All requirements of R-21061 remain in full force and effect.

| OM | DATE: | 12/23/22 | |
|-------------------|-------|----------|--|
| ADRIENNE SANDOVAL | | | |
| Director | | | |

cc: Case File 20965

Well file 30-025-40051 Bureau of Land Management

| Office District I – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240 District II – (575) 748-1283 811 S. First St., Artesia, NM 88210 District III – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410 District IV – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505 | Energy, Minerals and Natural OIL CONSERVATION DI 1220 South St. Francis Santa Fe, NM 8750 | WELL A 30-025-4 Dr. 5 6 State N/A | A0051 ate Type of Lease FATE FEE Oil & Gas Lease No. |
|--|--|---|---|
| (DO NOT USE THIS FORM FOR PROPOSALS DIFFERENT RESERVOIR. USE "APPLICATI PROPOSALS.) | | ACK TO A Caballo 2 | 23 Fed Number 2H |
| 2. Name of Operator EOG Resources, Inc. | | 9. OGR | ID Number 7377 |
| 3. Address of Operator P.O. Box 2267 Midland, Texas 79707 | | | name or Wildcat s; Upper Bone Spring Shale |
| | 50feet from the _North Township 25S Ran . Elevation (Show whether DR, RK | <u>C</u> | _feet from the _Westline MPM |
| | ropriate Box to Indicate Natu | re of Notice, Report o | r Other Data |
| TEMPORARILY ABANDON C | LUG AND ABANDON | SUBSEQUE EMEDIAL WORK DMMENCE DRILLING OP ASING/CEMENT JOB | NT REPORT OF: ALTERING CASING NS. P AND A |
| OTHER: 13. Describe proposed or completed | l operations. (Clearly state all perti SEE RULE 19.15.7.14 NMAC. F | | inent dates, including estimated date |

Pursuant to Order R-21061, EOG respectfully makes the following notice.

During the afternoon of 08/24/2022, EOG observed above average (>450 psig) intermediate casing pressures during Closed Loop Gas Capture (CLGC) injection on the Caballo 23 Fed #2H (API No. 30-025-40051). Injection was occurring on the production casing/tubing annulus with a peak pressure of 916 psig. As injection took place, the intermediate casing pressure rose steadily to a peak of 657 psig. Injection was ceased due to this behavior and EOG engineers were notified. On the morning of 08/25/2022, the intermediate casing was bled down and quickly returned to 0 psig after returning ~0.5 BBL of water with no gas. EOG pumped ~0.5 BBL of water back in and pressured up the intermediate casing to 1,000 psig, holding for 30 minutes. The pressure was increased to 1,500 psig, held for 15 minutes, and then bled down. EOG did not observe any behavior that indicated communication to the production casing or surface casing. As gas injection resumed, pressure peaked at 335 psig at 20:15 CDT on 08/25/2022 and declined after that. Prior to bleeding off on 08/26/2022 at 08:46 CDT, the intermediate casing pressure was at 266 psig.

The NMOCD was notified at 09:39 CDT on 08/26/2022. At the request of Mr. Dean McClure, EOG bled the intermediate casing down again later in the afternoon. Prior to bleeding off, the pressure was at 18 psig. The intermediate casing was bled down, taking about 1 minute to flow off \sim 1/2 gallon of water. The casing was left open for 15 minutes with zero flow observed. The pressure has remained near 0 psig as of 08/29/2022, regardless of whether EOG has been injecting or producing.

Upon closer examination of the pressure trends and the difference in the temperature of the gas lift gas versus the CLGC gas, it appears that the pressure fluctuations observed can be attributed to thermal expansion. The CLGC gas was initially warmer than the gas lift gas previously being injected. It was also at a significantly higher rate, reaching 6,000 MSCFD versus the gas lift injection rate of 200 MSCFD. It appears that the increased flow of hot gas elevated the heat transfer between the production casing and intermediate casing annulus, allowing for thermal expansion of fluids and a corresponding pressure increase. When injection occurred overnight, the cooler ambient temperatures allowed for a decrease in pressure until daylight, forming a sinusoidal pattern. This behavior is in-line with what was previously observed on 05/18/2020 and described in the form C-103 filed on 05/28/2020. Based on the data collected, EOG does not believe that the intermediate casing pressures are due to pressure communication from CLGC injection.

| Spud Date: | | | R | ig Release Date: | | | |
|------------------------------------|-----------------|---------------|--------------|----------------------|----------------------|---------------|------------|
| I hereby certify t | hat the informa | tion above is | true and com | plete to the best of | my knowledge and be | lief. | |
| SIGNATURE | Sach | 1 it a 60 00 | 7 | | | DATE | 9/20/2022 |
| SIGNATURE | Sarah M | uchell | 1 | TITLE | | DATE_ | _8/30/2022 |
| Type or print nate For State Use O | _ | hell | E-mail addre | ess: _sarah_mitche | ll@eogresources.com_ | _ PHONE: _432 | 2-848-9133 |
| APPROVED BY Conditions of Ap | | | Clure T | ITLE Petroleum | Engineer | DATE_ | 09/01/2022 |

- Conduct the bleed off test again at the peak pressure of its cycle if the intermediate pressure exceeds 300 psi and provide the Division with the results.
 - o Bleed the pressure off
 - o Monitor for flow for 15 minutes
 - o Close the intermediate back in and monitor pressure
- Continue your protocol of contacting the Division if the intermediate pressure exceeds 450 psi.
- If the intermediate pressure exceeds 1000 psi, immediately cease injection and contact the Division.

| Received by OCD: 10/3/2023 6:36:05 | PM State of New | w Mexico |) | | Form C- | |
|--|--------------------------------------|-------------|---------------------|--------------------------|------------------------|---|
| <u>District I</u> – (575) 393-6161 | Energy, Minerals and | Natural F | Resources | WELL API NO. | Revised July 18, 2 | 2013 |
| 1625 N. French Dr., Hobbs, NM 88240 District II – (575) 748-1283 | 0.11 0.011077711 | | | 30-025-40051 | | |
| 811 S. First St., Artesia, NM 88210 | OIL CONSERVATION DIVISION | | 5. Indicate Type of | of Lease | | |
| <u>District III</u> – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410 | 1220 South St. Francis Dr. | | STATE [| FEE | | |
| <u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM | Santa Fe, N | M 87505 | • | 6. State Oil & Ga N/A | s Lease No. | |
| 87505 SUNDRY NOTI | CES AND REPORTS ON W | FLIS | | 7 Lease Name or | Unit Agreement Nan | ne |
| (DO NOT USE THIS FORM FOR PROPOS DIFFERENT RESERVOIR. USE "APPLIC | SALS TO DRILL OR TO DEEPEN | OR PLUG BA | | Caballo 23 Feder | • | |
| PROPOSALS.) 1. Type of Well: Oil Well | Gas Well Other | | | 8. Well Number 2 | | |
| 2. Name of Operator | Oas Well Olliel | | | 9. OGRID Numb | er | |
| EOG Resources, Inc. | | | | 7377 | CI | |
| 3. Address of Operator | | | | 10. Pool name or | Wildcat | |
| P.O. Box 2267 Midland, Texas 79° | 707 | | | Red Hills; Upper | Bone Spring Shale | |
| 4. Well Location | | | | | | |
| Unit LetterC: | 50feet from theN | orth | _ line and22 | 200feet from | m the _Westl | ine |
| Section 23 | Township 25S | Ran | ge 33E | NMPM | County Lea | |
| | 11. Elevation (Show whether 3345' GR | er DR, RKI | B, RT, GR, etc.) | | | |
| 10 (1) 1 | ' | , NT , | CNI /' I | D (O(1 | D. | |
| | Appropriate Box to Indica | ate Natur | | • | | |
| NOTICE OF IN | | | | SEQUENT REI | | _ |
| PERFORM REMEDIAL WORK | PLUG AND ABANDON | | MEDIAL WORK | | ALTERING CASING | |
| TEMPORARILY ABANDON | CHANGE PLANS | | | LLING OPNS. | P AND A | |
| PULL OR ALTER CASING DOWNHOLE COMMINGLE | MULTIPLE COMPL | I CA | SING/CEMENT | JOB 🗌 | | |
| CLOSED-LOOP SYSTEM | | | | | | |
| OTHER: | | | | roject monitoring | \boxtimes | <u> </u> |
| 13. Describe proposed or composed wo proposed completion or reco | rk). SEE RULE 19.15.7.14 N | | | | | l date |
| | • | | | | | |
| Pursuant to Order R-21061, EOG co | | | | | | |
| approximately 150 psi. Pressure was casing pressure increased to 130 psi. | | | | | | ıe |
| observed. The observed intermediate | | | | | | 10 |
| made to continue testing while close. | | | | | | |
| the injection test (approximately 4 da | | | | | | |
| temperature variance of injection gas | | | | | | |
| psi. Based on these observations, the | | | | ed to be due to the | temperature effect and | 1 |
| ballooning effect of the 5-1/2" produ | ction casing while injecting h | igh rates o | f warm gas. | | | |
| | | | | | | |
| | | | | | | |
| Spud Date: | Rig Relea | se Date: | | | | |
| | | | | | | |
| I hereby certify that the information | above is true and complete to | the best of | my knowledge | e and belief. | | |
| | | | | | | |
| SIGNATURE Sarah Mitc | hellTITLE_I | Regulatory | Contractor | DATE5 | /28/2020 | |
| Type or print name _Sarah Mitchell_ For State Use Only | E-mail address: | sarah_mit | chell@eogresou | arces.com PHON | NE: _432-848-9133 | |
| APPROVED BY: | TITI F | | | DA | TE | |
| Conditions of Approval (if any): | 11122 | | | | THE OIL CONSERVATION | |

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

APPLICATION OF EOG RESOURCES, INC. FOR A TWO-YEAR EXTENSION OF ITS CLOSED LOOP GAS CAPTURE PILOT PROJECT AUTHORIZED UNDER ORDER NO R-21061, LEA COUNTY, NEW MEXICO.

CASE NO. 23810

SELF-AFFIRMED STATEMENT OF BRICE LETCHER, P.E.,
PRODUCTION ENGINEER

1. My name is Brice Letcher, P.E., and I am employed by EOG Resources, Inc.

("EOG") as a Production Engineer.

2. My responsibilities include the Permian Basin of New Mexico. I have previously

testified before the New Mexico Oil Conservation Division as an expert witness in petroleum

engineering and have had my credentials accepted as a matter of record by the Division.

3. I am familiar with the application filed by EOG in this matter and with the

underlying facts and issues and have conducted an engineering review of the subject well and the

one-mile area of review around the Caballo 23 Federal Well No. 2H (API No. 30-025-40051)

(the "Well").

Well Workover & Mechanical Testing

4. As noted in Ryan Yarger's self-affirmed statement, EOG undertook additional

work to further confirm the Well's mechanical integrity and verify the status of the Well to address

the Division's concerns.

5. **EOG Exhibit B-1** provides a description of the workover procedure that EOG

performed on the Well. In summary, EOG brought in a workover rig to pull the Well's tubing and

conduct mechanical integrity tests of the production and intermediate casings. A retrievable bridge

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico Exhibit No. B plug was set at 9,083 feet measured depth ("MD") just above the kickoff point of 9,120 feet MD. EOG performed a mechanical integrity test ("MIT") on the 5-1/2 inch production casing by holding 1,600 psi for 30 minutes. In addition, EOG also tested the 8-5/8 inch intermediate casing at 1,000 psi for 30 minutes with 300 psi holding on the production casing. EOG provided advance notice of the MIT to the Division. Both tests verify the Well's mechanical integrity and its suitability for continued CLGC operations.

- 6. **EOG Exhibit B-2** is a copy of the MIT pressure charts. As the charts reflect, both tests were successful, confirming wellbore integrity.
- 7. In addition to conducting an MIT, EOG also reinstalled the Well's tubing with an AS1-X packer at 9,041 feet MD. The tubing packer will help limit effects of thermal expansion and will provide production casing isolation during CLGC injection operations, thereby providing additional operational safeguards.
- 8. **EOG Exhibit B-3** is an updated wellbore diagram reflecting the location of the tubing packer in the wellbore.
- 9. For normal production gas lift operations, gas lift injection will now occur through a gas lift mandrel with a check valve located above the packer at 9,028 feet MD, injecting gas down 5-1/2 inch casing and producing up 2-7/8 inch tubing. For CLGC operations, CLGC injection will be isolated to inject down the 2-7/8 inch tubing string. This is a significant change in approach for EOG, but the CLGC team believes it is safe and appropriate in this circumstance and will address the Division's concerns identified in the extension approval for Order R-21061.

Further Remedial Action is Not Warranted

- 10. Based on EOG's careful observations, data collected, and EOG's experience operating the Well, EOG does not believe additional remedial action to address the micro-annulus on the intermediate casing is necessary or prudent.
- 11. The Well passed MITs on both the intermediate and production casing and the intermediate casing does not take on fluid or hydrocarbons, confirming there is no communication within the wellbore or with the formation.

AOR Update

- 12. As part of its application to extend authorization of this Pilot Project, EOG conducted an updated area of review analysis.
- 13. **EOG Exhibit B-4** is a map depicting the location of the Well denoted with a black star at its surface location and a black line representing the approximate location of its horizontal wellbore. A dashed orange line represents the two-mile area of review in the shape of an oval around the perforated interval of the Well. All wells within the two-mile area are indicated on the map. There are approximately 552 wells with surface locations within the two-mile area of review.
- 14. A solid gray line represents the half-mile area of review, which is shaded light green, around the perforated interval of the Well. All wells partially within the half-mile area of review that penetrate the Bone Spring formation are indicated as being either green or red on the map and are identified with a reference number that may be cross-referenced in the separate tabulation of well data marked as **EOG Exhibit B-5**. Green wells are active producers. Red wells are plugged and abandoned. There are 53 active wells and 3 plugged and abandoned wells identified within the half-mile area of review.

- 15. There is no change in status to any the wells that were identified in the half-mile area of review under Order No. R-21061. Because the status of the wells is unchanged, EOG is not providing a copy of the wellbore schematics for the plugged and abandoned wells. Those wells have already been reviewed and analyzed under Order No. R-21061.
- 16. The tabulation of well data in EOG Exhibit B-6 includes well construction information for all wells that penetrate the Bone Spring formation. It provides detailed information on the well location, drilling, casing, cement, current completion, and current producing pool of each well. The only new wells within the half-mile area of review since Order No. R-21061 was issued are six wells that EOG drilled. They are identified in EOG Exhibit B-6 with red print.
- 17. Based on my analysis, wells within the area of review that penetrate the Bone Spring formation will not serve as a conduit for the injected gas into the Well to migrate out of the injection interval and are protective of correlative rights.

Notice

- 18. In addition to an updated area of review analysis, EOG also reviewed the affected parties to determine if there was a change to the parties entitled to notice.
- 19. **EOG Exhibit B-6** is a copy of a notice map prepared by EOG's land department identifying each operator within a half-mile notice area. The affected parties entitled to notice have not changed since Order No. R-21061 was issued. In addition to the operators of record identified, EOG provided notice to the BLM.

Conclusion

20. Given the Well's history, successful mechanical integrity test, and additional operational and notification safeguards that are in place, I agree that an extension of the CLGC

Pilot Project authority and continued use of the Well as a CLGC injector is justified and appropriate.

- 21. In my opinion, approval of this application is in the best interest of conservation, the prevention of waste, and protection of correlative rights.
- 22. Exhibits B-1 through B-6 were either prepared by me or compiled under my direction and supervision.
- 23. 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.

Brice Letcher, P.E.

10/3/2023 Date



Caballo 23 Fed #2H API # 30-025-40051 50' FNL & 2200' FWL – Sec. 23-25S-33E Lea County, New Mexico

Workover Procedure AFE # 182862

Executive Summary:

Pull/scan tubing, perform an MIT of production and intermediate casing strings, and install packer.

TD: 14,110' TVD: 9,455' PBTD: 14,097' GR: 3,350' KB: 3,380'

Surface Casing: 11¾" 42# H-40 at 1,190'. Cemented with 650 sx. Cement circulated.

Intermediate Casing: 8%" 32# J-55 & HCK-55 at 5,005'. Cemented with 1,200 sx. Cement circulated. Production Casing: 5½" 20# HCP-110 at 14,097'. Cemented with 1,450 sx. Est. TOC at 4,050'.

Producing Interval: Leonard perfs at 9,729'-14,060'

Workover Procedure:

1. MIRU well service unit and all necessary safety equipment.

2. ND WH, NU BOP and POOH scanning 2½" tubing, lay down any bad tubing joints and BHA.

- 3. TIH with bit and scraper to 9,100' then POOH.
- **4.** TIH with 5½" RBP, set RBP at 9,080'. Circulate casing clean with treated fresh water to ensure we have a solid column of clean fluid.
- 5. Note: Notify Kerry Fortner with NMOCD 24 hours prior to testing casing.

Pressure test 5½" production casing to 1,500 psi for 30 minutes recording on a 1-hour 3,000 psi chart. Also record intermediate casing pressure on a 1-hour 3,000 psi chart during 5½" casing test.

- **6.** Bleed off 5½" casing pressure to 100 psi, then pressure test 8½" intermediate casing to 1,100 psi for 30 minutes recording on chart. Bleed off pressures.
- 7. Latch back on to RBP, release and POOH to lay down RBP.
- **8.** TIH with 2%" L-80 production tubing, GL mandrel with checked orifice (Liberty Lift) and 10k AS1-X packer with on/off tool. Hydro test tubing while running back in. Set packer at 9,050' and hang off. Contact for Liberty Lift is Blake Bruyere (cell: 432-813-0980).

BHA: 2%" 6.5# L-80 tbg

Gas lift mandrel with checked orifice 4' above on/off tool

4' sub On/off tool

5½" 10k AS1-X packer at 9,050'

2 jts 2%" tbg XN-Nipple

MS/EOT at ~9,115'

Case No. 23810



- **9.** ND BOP and NU production tree.
- **10.** RDMO well service unit and return the well to Production.

Production Engineer: 73... A Salam Date: 8/25/2023

Brice A. Letcher, P.E.

Current BHA:

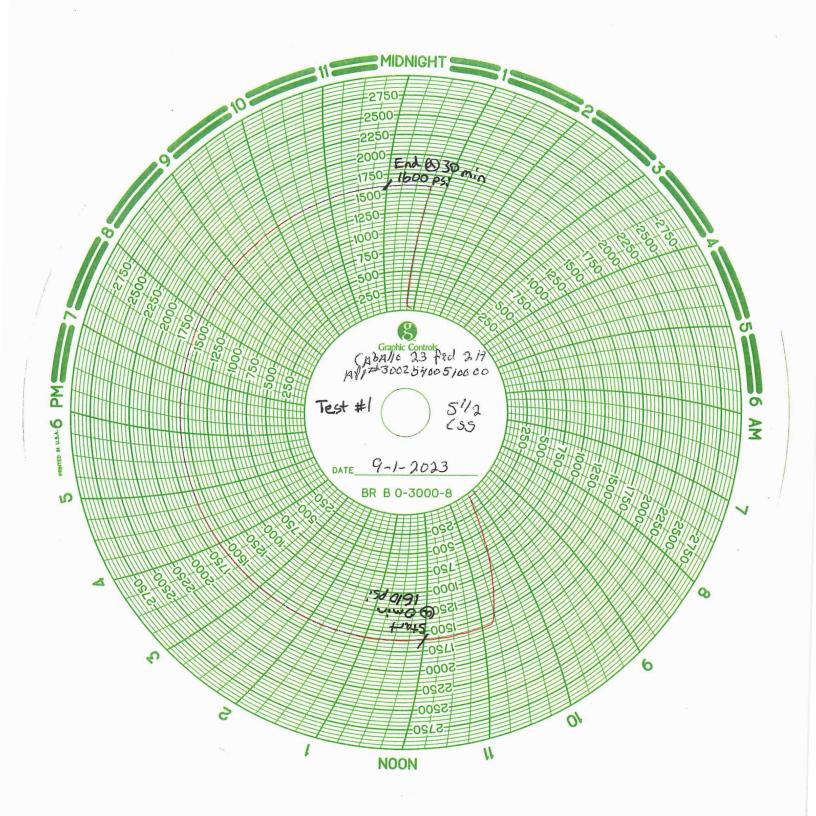
| Item | Name | Ran In | Pulled | Length | # of Items | Joint # | Top Depth (Ft) | Bottom Depth (ft) | Inclination | OD (inch) |
|----------------|------------|----------|--------|----------|---------------|------------|-------------------|----------------------|-------------|--------------|
| Tubing Hanger | Tubing Han | ~ | | 1.60 | 1 | | 0 | 1.6 | 0.355 | 7 |
| Tubing | Tubing | ✓ | | 9,377.65 | 287 | 289 | 1.6 | 9379.25 | 46.35 | 2.875 |
| XN-Nipple | XN-Nipple | ✓ | | 1.10 | 1 | | 9379.25 | 9380.35 | 46.35 | 2,875 |
| Tubing | Tubing | ✓ | | 32.76 | 1 | 2 | 9380.35 | 9413.11 | 50.7 | 2.875 |
| Perforated Sub | Perforated | ✓ | | 4.00 | 1 | | 9413.11 | 9417.11 | 50.7 | 2.875 |
| Tubing | Tubing | ✓ | | 32.76 | 1 | 1 | 9417.11 | 9449.87 | 55.65 | 2,875 |
| Beveled Collar | Beveled Co | ~ | | 0.45 | 1 | | 9449.87 | 9450.32 | 55.65 | 2,875 |

AFE Codes:

| Code | Description |
|---------|---------------------------------|
| 810-311 | WO - Tubing |
| 810-316 | WO - Rods |
| 810-317 | WO - Pump Equipment/ Surface |
| 810-318 | WO - Pump Equipment/ Subsurface |
| 810-206 | WO - Water |
| 810-207 | WO - Chemical |
| 810-216 | WO - Transportation |
| 810-218 | WO - Equipment Rental |
| 810-219 | WO - Completions Rig |
| 810-224 | WO - Supervision |
| 810-229 | WO - Tubing Inspection/Handling |
| 810-232 | WO - Wireline Service |
| 810-234 | WO - Tubing Services (Hot Oil) |

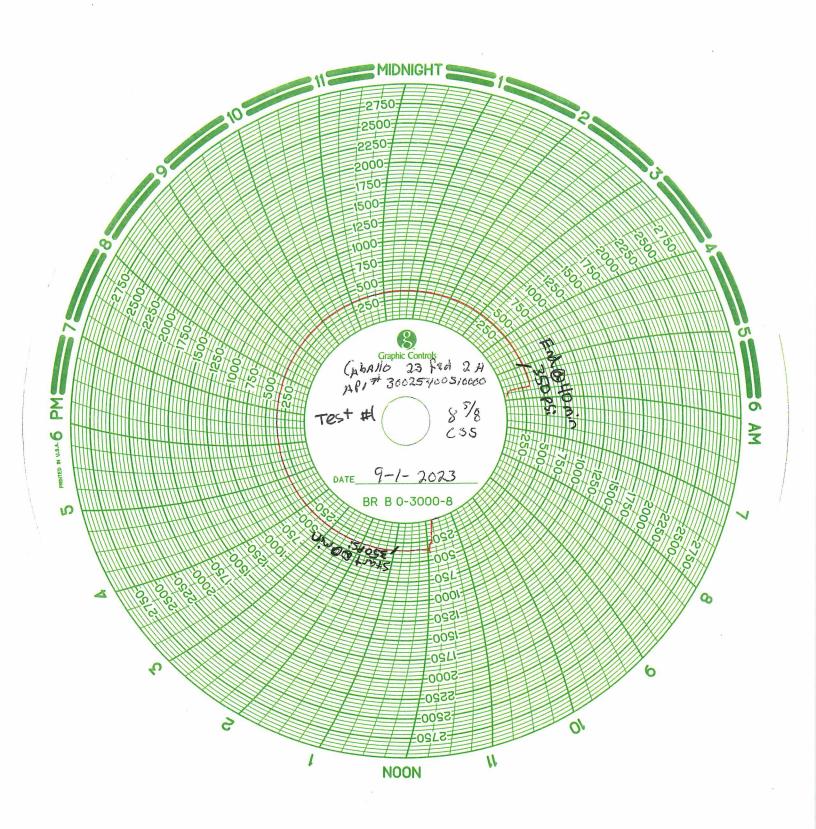


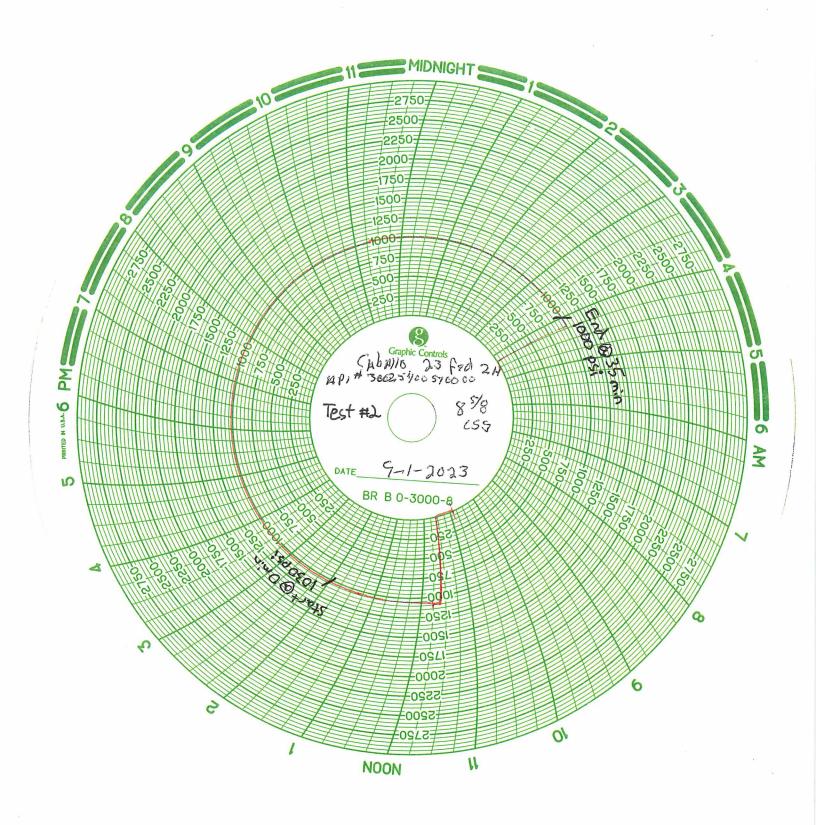
| Emergency Contact Information | | | | | | | | | | |
|--|---|--------------|--------------|--|--|--|--|--|--|--|
| In the event of an accident/safety incident involving EOG employees or contract personnel contact: | | | | | | | | | | |
| Name | | | | | | | | | | |
| Brian Chandler | rian Chandler Safety Manager 817-239-0251 | | | | | | | | | |
| Ashley Mayfield | | | | | | | | | | |
| In the event of a spill | or environmental release contact: | | | | | | | | | |
| Name | Name Title Cell | | | | | | | | | |
| Doug Lowrie | Doug Lowrie Environmental Manager 432-425-6923 | | | | | | | | | |
| Production Departme | ent Contacts: | | | | | | | | | |
| Name | Title | Cell | Office | | | | | | | |
| Mario Arevalo | NM Production Superintendent | 940-231-8118 | | | | | | | | |
| Zack Jones | Zack Jones Production Foreman 432-488-8556 | | | | | | | | | |
| Kyle Bangert | Kyle Bangert AL Tech/Lead Lease Op 575-390-3723 | | | | | | | | | |
| Roberto Natividad | Roberto Natividad Lead Lease Op 432-310-495 | | | | | | | | | |
| Brice Letcher | Production Engineer | 575-748-5021 | | | | | | | | |
| Clinton Cox | Production Manager | 432-894-4920 | | | | | | | | |
| Ron Willett | Production Advisor | 432-230-2135 | | | | | | | | |
| Completions Departr | nent Contacts: | | | | | | | | | |
| Name | Title | Cell | Office | | | | | | | |
| Alex Richter | Completions Engineer Advisor | 432-634-9148 | 432-686-3638 | | | | | | | |
| Police/Fire/Hospital | Contacts | | | | | | | | | |
| Fire | | | 911 | | | | | | | |
| Sheriff (Eddy County) | | | 575-887-7551 | | | | | | | |
| Sheriff (Lea County) | | | 575-396-3611 | | | | | | | |
| Hospital – Carlsbad M | ledical Center (Carlsbad, NM) | | 575-887-4100 | | | | | | | |
| Hospital – Lea Region | al Medical Center (Hobbs, NM) | | 575-492-5000 | | | | | | | |
| Hospital – Nor-Lea Ge | eneral Hospital (Lovington, NM) | | 575-396-6611 | | | | | | | |
| Hospital – Winkler Co | ounty Memorial Hospital (Kermit, TX) | | 432-586-5864 | | | | | | | |

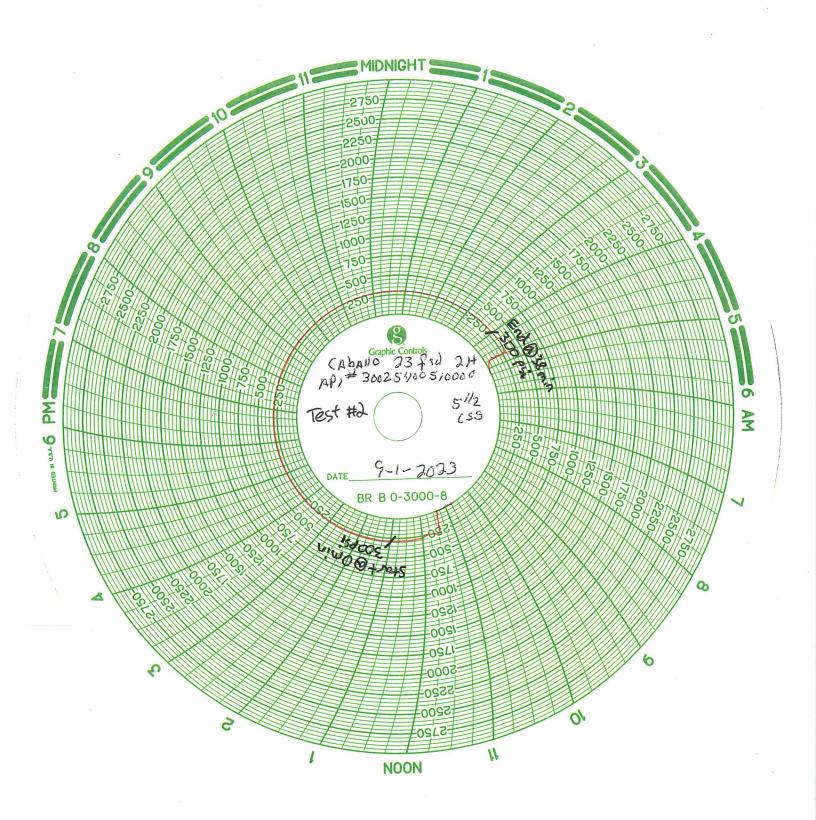


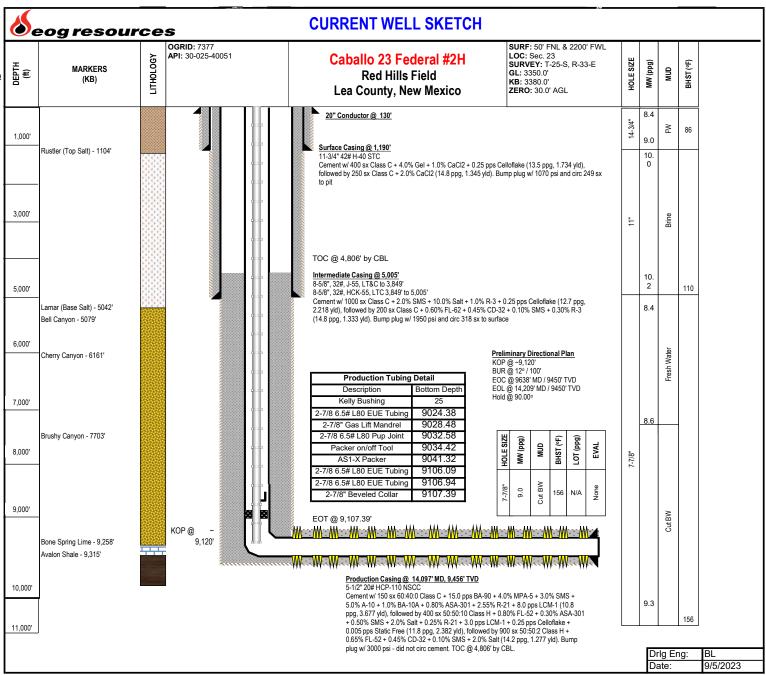
BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico
Exhibit No. B-2
Submitted by: EOG Resources, Inc.
Hearing Date: October 5, 2023
Case No. 23810



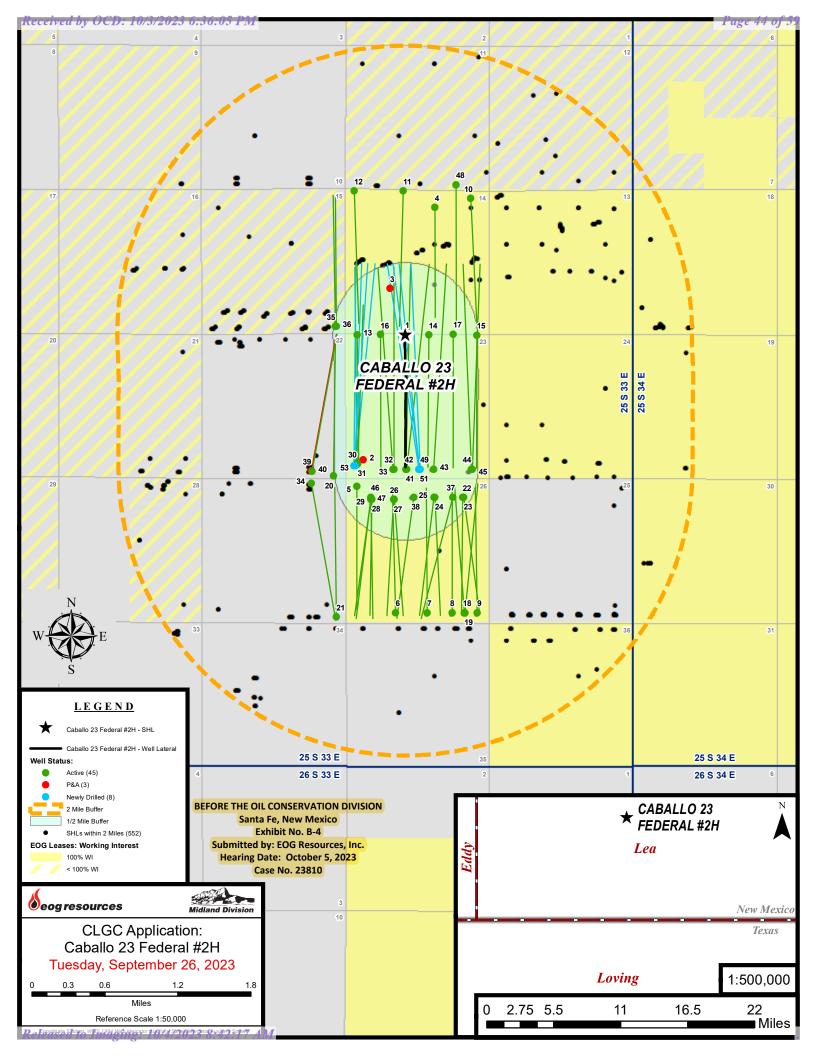






BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. B-3
Submitted by: EOG Resources, Inc.
Hearing Date: October 5, 2023

Case No. 23810



BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico

Exhibit No. B-5
Submitted by: EOG Resources, Inc.
Hearing Date: October 5, 2023

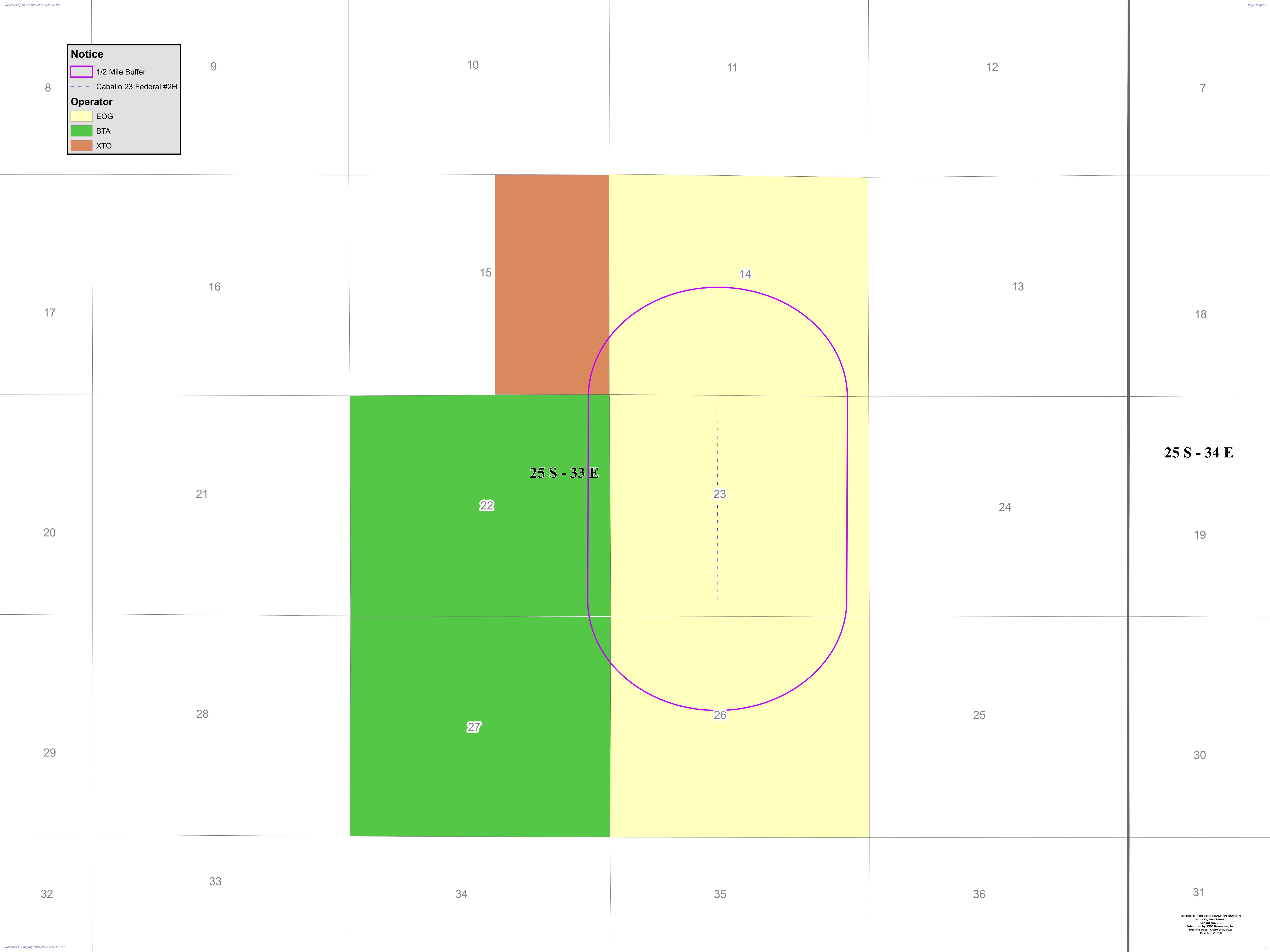
| Submitted by. Loc Mesou | , |
|------------------------------|---------|
| Hearing Date: October | 5, 2023 |
| Case No. 23810 | |

| Map Legend | | | | | | | | | | | Date De | oth Total De | oth True | | | | | | | Hearing Date: October 5, 2023 |
|-------------------|--|------------------------------|----------|-------------|------------|----------|-----------|----------|--------|-----|----------------|--------------|--------------------------|--------------------|-----------------|------------------------------|----------------------|----------------|--|--|
| Number API Number | Operator Name | Lease Name | Well Nur | m Well Type | Status FTG | N/S | FTG E/W | Unit Sec | Tship | Rng | Completion Dri | - | | Csg Size | Set At | SX CMT CMT Top | MTD | DVT Current Co | mpletion Pool | Remarks Case No. 23810 |
| | | | | | | | | | | | | | | | | | | | Red Hills; Upper Bone | |
| 1 30-025-40051 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 2H | Р | Active | 50 FNL | 2200 FWL | С | 23 25S | 33E | 02/03/2012 | 14110 | 9455 14-3/4" | 11-3/4" | 1190' | 650 Surface | Circ. | 9729-1406 | | |
| | | | | | | | | | | | | | 11" 7-7/8" | 8-5/8" 5-1/2" | 5005' 14097' | 1200 Surface 1450 4050' | Circ. Calc. | | | |
| | | | | | | | | | | | | | , ,,, | 3 1/2 | 14037 | 1430 4030 | cuic. | | | Cored 5057-5109', 5109-5130', Plugged 0-50' (10 sxs), 534-584' (10 sxs), |
| 2 30-025-08387 | HILL & MEEKER | MUSE-FEDERAL | 1 | Р | P & A | 660 FSL | 660 FWL | М | 23 25S | 33E | 10/26/1962 | 5159 | 5159 ? | 7" | 534' | 150 Surface | Circ. | N/A | N/A | 1405-1505 (20 sxs), 4770-4820' (10 sxs), 5014-5114' (20 sxs) Plug 1: 9291-9191', Plug 2: 7813-7713', Plug 3: 6402-6302', Plug 4: 4895 |
| 3 30-025-34118 | EOG RESOURCES INC | VACA 14 FEDERAL | 1 | Р | P & A | 1650 FSL | 1650 FWL | K | 14 255 | 33E | 10/06/1997 | 12600 | 12600 14-3/4" | 11-3/4" | 650' | 400 Surface | Circ. | | | 4795', Plug 5: 700-600', Plug 6: Surface |
| | | | | | | | | | | | | | 11" | 8-5/8" | 4845' | 1425 Surface | Cir. | N/A | N/A | |
| | | | | | | | | | | | | | | | | | | | Red Hills; Upper Bone | |
| 4 30-025-39327 | EOG RESOURCES INC | VACA 14 FEDERAL | 3 | Р | Active | 660 FNL | 1980 FEL | В | 14 25S | 33E | 09/26/2009 | 13200 | 9486 17-1/2" | 13-3/8" | 1180' | 1017 Surface | Circ. | 9740-1289 | | |
| | | | | | | | | | | | | | 12-1/4" 8-3/4" | 9-5/8" 5-1/2" | 5153' 13171' | 2200 Surface 1915 5250' | Circ. CBL | | | |
| | | | | | | | | | | | | | | , - | | | | | Red Hills; Lower Bone | |
| 5 30-025-39531 | EOG RESOURCES INC | LOMAS ROJAS STATE COM 26 | 1H | Р | Active | 330 FNL | 430 FWL | D | 26 25S | 33E | 05/02/2010 | 13690 | 9415 17-1/2" 12-1/4" | 13-3/8" 9-5/8" | 718' 5085' | 750 Surface 1500 Surface | Circ. | 9828'-1353 | 3' Spring [51020] | |
| | | | | | | | | | | | | | 8-3/4" | 5-1/2" | 13665' | 2075 4600' | Calc. | | | |
| 6 20 025 20701 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | วบ | Р | Active | 330 FSL | 1850 FWL | N | 26 25S | 225 | 06/26/2010 | 13792 | 9419 17-1/2" | 13-3/8" | 685' | 675 Surface | Circ. | 9736'-1365 | Red Hills; Lower Bone ()' Spring [51020] | |
| 0 30-023-33701 | EOG RESOURCES INC | LOIVIAS ROJAS 20 STATE COIVI | ΖП | r | Active | 330 F3L | 1030 FWL | IN | 20 233 | 335 | 00/20/2010 | 13/32 | 12-1/4" | 9-5/8" | 4994' | 1550 Surface | Circ. | 9730-1303 | 5 Spring [51020] | |
| | | | | | | | | | | | | | 8-3/4" | 5-1/2" | 13790' | 800 3790' | CBL | | Dad Hilla Lawre David | |
| 7 30-025-39702 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 3H | Р | Active | 330 FSL | 2262 FEL | 0 | 26 25S | 33E | 07/19/2010 | 13742 | 9436 17-1/2" | 13-3/8" | 690' | 675 Surface | Circ. | 9800-1360 | Red Hills; Lower Bone ' Spring [51020] | |
| | | | | | | | | | | | | | 12-1/4" | 9-5/8" | 5050' | 1300 Surface | Circ. | | | |
| | | | | | | | | | | | | | 8-3/4" | 5-1/2" | 13731' | 1975 4450' | CBL | | Red Hills; Lower Bone | |
| 8 30-025-39703 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 4H | Р | Active | 330 FSL | 1350 FEL | 0 | 26 25S | 33E | 08/04/2010 | 13850 | 9442 17-1/2" | 13-3/8" | 682' | 675 Surface | Circ. | 9910-1372 | , | |
| | | | | | | | | | | | | | 12-1/4" 8-3/4" | 9-5/8" 5-1/2" | 5162' 13820' | 1500 Surface 1950 4600' | Circ./Brade Calc. | enhead squeeze | | |
| | | | | | | | | | | | | | 0-3/4 | 3-1/2 | 13020 | 1930 4000 | Caic. | | Red Hills; Lower Bone | |
| 9 30-025-39704 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 5H | Р | Active | 330 FSL | 430 FEL | Р | 26 25S | 33E | 08/26/2010 | 13800 | 9444 17-1/2" 12-1/4" | 13-3/8" 9-5/8" | 688' 5034' | 675 Surface 1300 Surface | Circ. | 9840-1371 | ' Spring [51020] | |
| | | | | | | | | | | | | | 8-3/4" | 5-3/8 5-1/2" | 13792' | 2000 4500' | Circ. | | | |
| | | | | | | | | | | | | | | | | | | | Dad Hills, Hanse Dans | |
| 10 30-025-39892 | EOG RESOURCES INC | VACA 14 FEDERAL | 4H | Р | Active | 330 FNL | 660 FEL | Α | 14 25S | 33E | 08/08/2012 | 13800 | 9469 17-1/2" | 13-3/8" | 1238' | 900 Surface | Circ. | 9718-1375 | Red Hills; Upper Bone ' Spring Shale [97900] | |
| | | | | | | | | | | | | | 12-1/4" | 9-5/8" | 4957' | 1325 Surface | Circ. | | | |
| | | | | | | | | | | | | | 8-3/4" | 5-1/2" | 13800' | 1845 4600' | Calc. | | | |
| | | | | | | | | | | | | | | | | | | | Red Hills; Upper Bone | |
| 11 30-025-39943 | EOG RESOURCES INC | VACA 14 FEDERAL | 6H | Р | Active | 50 FNL | 2130 FWL | С | 14 255 | 33E | 11/04/2012 | 14150 | 9445 17-1/2" 12-1/4" | 13-3/8" 9-5/8" | 1249' 4995' | 900 Surface 1325 Surface | Circ. | 9517-1405 | Spring Shale [97900] | |
| | | | | | | | | | | | | | 8-3/4" | 5-1/2" | 14083' | 2075 4600' | Calc. | | | |
| 12 30-025-39944 | EOG RESOURCES INC | VACA 14 FEDERAL COM | 5H | Р | Active | 50 FNL | 330 FWL | D | 14 255 | 33F | 04/10/2011 | 14092 | 9422 17-1/2" | 13-3/8" | 1260' | 585 Surface | Circ. | 9735-1399 | Red Hills; Lower Bone ' Spring [51020] | |
| 12 30 023 33344 | EOG RESOURCES IIVC | VACA 14 I EDERAE COM | 311 | • | Active | 30 1112 | 330 1 112 | · · | 14 255 | JJL | 04/10/2011 | 14032 | 12-1/4" | 9-5/8" | 4993' | 1350 Surface | Circ. | 3733 1333 | . Spring (31010) | |
| | | | | | | | | | | | | | 8-3/4" | 5-1/2" | 14092' | 1880 4050' | CBL | | Red Hills; Lower Bone | |
| 13 30-025-40050 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 1H | Р | Active | 50 FNL | 440 FWL | D | 23 255 | 33E | 07/17/2011 | 13985 | 9430 14-3/4" | 11-3/4" | 1163' | 600 Surface | Circ. | 9718-1386 | | |
| | | | | | | | | | | | | | 11" 7-7/8" | 8-5/8" 5-1/2" | 4954' 13965' | 1200 Surface 1465 4120' | Circ. CBL | | | |
| | | | | | | | | | | | | | 7-7/8 | 3-1/2 | 13903 | 1403 4120 | CBL | | | |
| 44 20 025 40052 | FOC DECOLIDERS INC | CARALLO 33 FERENAL | 211 | | A -4: | EO ENU | 2200 551 | | 22.256 | 225 | 02/05/2012 | 44045 | 0420 44 2/4 | 44.2/411 | 44041 | COO Cf | Ci | 0720.4400 | Red Hills; Upper Bone | |
| 14 30-025-40052 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 3H | Р | Active | 58 FNL | 2200 FEL | В | 23 25S | 33E | 02/06/2012 | 14045 | 9439 14-3/4" 11" | 11-3/4" 8-5/8" | 1181' 4995' | 600 Surface 1100 Surface | Circ. | 9738-1400 | Spring Shale [97900] | |
| | | | | | | | | | | | | | 7-7/8" | 5-1/2" | 14045' | 1450 4700' | Calc. | | | |
| | | | | | | | | | | | | | | | | | | | Red Hills; Upper Bone | |
| 15 30-025-40053 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 4H | Р | Active | 50 FNL | 440 FEL | Α | 23 25S | 33E | 11/17/2011 | 14080 | 9449 14-3/4" | • | | 600 Surface | Circ. | 9804-1399 | | |
| | | | | | | | | | | | | | 11" 7-7/8" | 8-5/8" 5-1/2" | 4990' 14080' | 1200 Surface 1435 4043' | Circ. Calc. | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 16 30-025-40247 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 5H | Р | Active | 40 FNL | 1295 FWL | D | 23 255 | 33E | 02/09/2012 | 14025 | 9437 14-3/4" | 11-3/4" | 1203' | 650 Surface | Circ. | 9771-1396 | Red Hills; Upper Bone ' Spring Shale [97900] | |
| 20 00 020 0020 | | | | | | | | | | | 32,33,2322 | | 11" | 8-5/8" | 4985' | 1150 Surface | Circ. | 577 2 2000 | | |
| | | | | | | | | | | | | | 7-7/8" | 5-1/2" | 13987' | 1450 4050' | Calc. | | Red Hills; Lower Bone | |
| 17 30-025-40248 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 6H | Р | Active | 20 FNL | 1310 FEL | Α | 23 255 | 33E | 11/12/2011 | 14123 | 9485 14-3/4" | - | | 600 Surface | Circ. | 9862-1408 | , | |
| | | | | | | | | | | | | | 11" 7-7/8" | 8-5/8" 5-1/2" | 4990' 14113' | 1100 Surface 1450 4050' | Circ. Calc. | | | |
| | | | | | | | | | | | | | | | | | | | Red Hills; Lower Bone | |
| 18 30-025-42156 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 501H | Р | Active | 330 FSL | 875 FEL | P | 26 25S | 33E | 05/21/2016 | 15582 | 10849 17-1/2" 12-1/4" | 13-3/8" 9-5/8'" | 1091' 4972' | 1000 Surface 1250 Surface | Circ. | 10983-154 | 4' Spring [51020] | |
| | | | | | | | | | | | | | | 5-1/2" | 15582' | 1925 1958' | CBL | | | |
| 19 30-025-42157 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 502H | P | Active | 330 FSL | 905 FEL | P | 26 255 | 33F | 05/21/2016 | 15585 | 10843 17-1/2" | 13-3/8" | 1108' | 1050 Surface | Circ. | 11021-154 | Red Hills; Lower Bone 2' Spring [51020] | |
| 23 30 323 42137 | 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1. | DO DO STATE COM | | | | | | | | | ,, -010 | 2000 | 12-1/4" | 9-5/8'" | 4942' | 1325 Surface | Circ. | 11021 104 | -p8 (3 2020) | |
| | | | | | | | | | | | | | 8-3/4" | 5-1/2" | 15585' | 1925 2505' | CBL | | | |
| | | | | | | | | | | | | | | | | | | | Red Hills; Upper Bone | |
| 20 30-025-42414 | BTA OIL PRODUCERS LLC | ROJO 7811 JV-P FEDERAL COM | 2H | Р | Active | 50 FSL | 430 FEL | P | 22 25S | 33E | 05/06/2015 | 14092 | 9371 17-1/2" 12-1/4" | 13-3/8" 9-5/8'" | 1174' 5021' | 1040 Surface 1720 Surface | Circ. | 9556-1400 | ' Spring Shale [97900] | |
| | | | | | | | | | | | | | | - 5,5 | -0-1 | 1,20 Juliuce | | | | |

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| | | | | | | | | | | | | | | | | | | Dala and Danier Hanner |
|--|--|--|--------------------------|--------|--|--|--|--------------------------------------|--------------------------|---|---|--|---|---|--|---|--|--|
| 44 00 005 45504 | 500 B500 JB050 JN0 | | 70511 | | | 200 551 | 2224 51411 11 | 22.255 | 225 | 05/44/2040 | 40070 | 40454 40 4 /4" | 0.5/011 | 42401 | 550.5 | 6: | 42720 40022 | Bobcat Draw; Upper |
| 41 30-025-45584 | EOG RESOURCES INC | CABALLO 23 FED | 705H | Р | Active | 300 FSL | 2231 FWL N | 23 255 | 33E | 05/11/2019 | 19970 | 12454 12-1/4" | 9-5/8" | 1210' | 660 Surface | Circ. | 12720-19933' | Wolfcamp [98094] |
| | | | | | | | | | | | | 8-3/4" | 7-5/8" | 11728' | 1515 29' | Echo | | |
| | | | | | | | | | | | | 6-3/4" | 5-1/2" | 19950' | 825 7120' | CBL | | -1 |
| | | | | | | | | | | | | | | | | | | Bobcat Draw; Upper |
| 42 30-025-45585 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 706H | Р | Active | 300 FSL | 2264 FWL N | 23 25S | 33E | 05/11/2019 | 20010 | 12436 12-1/4" | 9-5/8" | 1210' | 660 Surface | Circ. | 12722-19971' | Wolfcamp [98094] |
| | | | | | | | | | | | | 8-3/4" | 7-5/8" | 11777' | 1752 Surface | Circ. | | |
| | | | | | | | | | | | | 6-3/4" | 5-1/2" | 19988' | 825 5720' | CBL | | |
| | | | | | | | | | | | | | | | | | | Bobcat Draw; Upper |
| 43 30-025-45588 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 709H | Р | Active | 300 FSL | 2032 FEL O | 23 25S | 33E | 05/09/2019 | 20046 | 12450 12-1/4" | 9-5/8" | 1209' | 690 Surface | Circ. | 12611-20015' | Wolfcamp [98094] |
| | | | | | | | | | | | | 8-3/4" | 7-5/8" | 11773' | 1688 Surface | Circ. | | |
| | | | | | | | | | | | | 6-3/4" | 5-1/2" | 20031' | 760 4980' | CBL | | |
| | | | | | | | | | | | | | | | | | | Bobcat Draw; Upper |
| 44 30-025-45589 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 710H | Р | Active | 300 FSL | 639 FEL P | 23 25S | 33E | 05/08/2019 | 19995 | 12490 12-1/4" | 9-5/8" | 1254' | 690 Surface | Circ. | 12810-19963' | Wolfcamp [98094] |
| | | | | | | | | | | | | 8-3/4" | 7-5/8" | 11708' | 1820 Surface | Circ. | | |
| | | | | | | | | | | | | 6-3/4" | 5-1/2" | 19980' | 825 5368' | CBL | | |
| | | | | | | | | | | | | | | | | | | Bobcat Draw; Upper |
| 45 30-025-45623 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 711H | Р | Active | 300 FSL | 606 FEL P | 23 25S | 33E | 05/08/2019 | 20014 | 12481 12-1/4" | 9-5/8" | 1250' | 690 Surface | Circ. | 12840-19976' | Wolfcamp [98094] |
| | | | | | | | | | | | | 8-3/4" | 7-5/8" | 11784' | 1707 69' | Echo | | |
| | | | | | | | | | | | | 6-3/4" | 5-1/2" | 19993' | 825 5050' | CBL | | |
| | | | | | | | | | | | | | | | | | | Red Hills; Lower Bone |
| 46 30-025-45755 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 505H | Р | Active | 720 FNL | 950 FWL D | 26 25S | 33E | 08/01/2019 | 15717 | 10827 17-1/2" | 13-3/8" | 1195' | 1030 Surface | Circ. | 11100-15686' | Spring [51020] |
| | | | | | | | | | | , | - | 12-1/4" | 9-5/8" | 4957' | 1327 Surface | Circ. | | The Otto And Andrews |
| | | | | | | | | | | | | 8-3/4" | 5-1/2" | 15702' | 2215 3212' | CBL | | |
| | | | | | | | | | | | | 0 0, . | 3 1,2 | 15702 | 2210 0212 | CDE | | Red Hills; Lower Bone |
| 47 30-025-45756 | FOG RESOLIRCES INC | LOMAS ROJAS 26 STATE COM | 506H | p | Active | 753 FNL | 950 FWL D | 26 25S | 33F | 08/01/2019 | 15673 | 10827 17-1/2" | 13-3/8" | 1194' | 1025 Surface | Circ. | 11075-15644' | Spring [51020] |
| 1, 30 023 13730 | EGG NEGGGNGES INC | 2011/10 1103/10 20 01/112 00111 | 50011 | • | 7100170 | 755 1112 | 330 1112 3 | 20 255 | 332 | 00,01,2013 | 13073 | 12-1/4" | 9-5/8" | 4965' | 1325 Surface | Circ. | 110/5 150 | opining (D2020) |
| | | | | | | | | | | | | 8-3/4" | 5-1/2" | 15697' | 1820 3862' | CBL | | |
| | | | | | | | | | | | | 0-3/4 | 3-1/2 | 13037 | 1020 3002 | CDL | | Red Hills; Lower Bone |
| 49 20 025 41522 | EOG RESOURCES INC | VACA 11 EEDEBAL | 2H | Р | Active | 170 FSL | 1200 FEL P | 11 250 | 225 | 05/30/2014 | 15675 | 10710 17-1/2" | 13-3/8" | 1236' | 825 Surface | Circ. | 11080-15410' | Spring [51020] |
| 48 30-023-41323 | EOG RESOURCES INC | VACA 11 FEDERAL | ΖП | г | Active | 170 F3L | 1200 FEL P | 11 233 | 33E | 03/30/2014 | 13073 | 12-1/4" | 9-5/8" | 5018' | 1350 Surface | Circ. | 11000-13410 | Spring (31020) |
| | | | | | | | | | | | | 8-3/4" | 5-3/8 5-1/2" | 15675' | 2230 2700' | CBL | | |
| | | | | | | | | | | | | | | | | CDL | | |
| | | | | | | | | | | | | , - | | | | | | Ded Hills, Laurer Dans |
| 40 20 025 47205 | FOC DESCUIDED INC | CADALLO 33 EEDEDAL | 50411 | | A -45: | 200 551 | 2524 551 0 | 22.255 | 225 | F /20 /2022 | 40204 | | | | | Cina | 40070 40350 | Red Hills; Lower Bone |
| 49 30-025-47295 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 501H | Р | Active | 300 FSL | 2524 FEL O | 23 25S | 33E | 5/30/2023 | 18381 | 10862 13-1/2" | 10-3/4" | 1222' | 512 Surface | Circ. | 10970-18358' | Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 |
| 49 30-025-47295 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 501H | Р | Active | 300 FSL | 2524 FEL O | 23 25S | 33E | 5/30/2023 | 18381 | 10862 13-1/2" 9-7/8" | 10-3/4" 8-5/8" | 1222' 4991' | 512 Surface 530 Surface | Circ. | 10970-18358' | |
| 49 30-025-47295 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 501H | Р | Active | 300 FSL | 2524 FEL O | 23 25S | 33E | 5/30/2023 | 18381 | 10862 13-1/2" | 10-3/4" | 1222' | 512 Surface | | 10970-18358' | Spring [51020] Drilled after the issuance of Order R-21061 |
| | | | | | | | | | | | | 10862 13-1/2" 9-7/8" 6-3/4" | 10-3/4" 8-5/8" 5-1/2" | 1222' 4991' 18366' | 512 Surface 530 Surface 460 Surface | Circ. Circ. | | Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone |
| | EOG RESOURCES INC | | 501H 407H | | Active Active | | 2524 FEL O | 23 25S 23 25S | | 5/30/2023 5/30/2023 | 18381 18138 | 10862 13-1/2" 9-7/8" 6-3/4" 10443 13-1/2" | 10-3/4" 8-5/8" 5-1/2" | 1222' 4991' 18366' | 512 Surface 530 Surface 460 Surface 512 Surface | Circ. Circ. | 10970-18358' 10840-18115' | Spring [51020] Drilled after the issuance of Order R-21061 |
| | | | | | | | | | | | | 10862 13-1/2" 9-7/8" 6-3/4" 10443 13-1/2" 9-7/8" | 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" | 1222' 4991' 18366' 1221' 5025' | 512 Surface 530 Surface 460 Surface 512 Surface 535 Surface | Circ. Circ. Circ. | | Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone |
| | | | | | | | | | | | | 10862 13-1/2" 9-7/8" 6-3/4" 10443 13-1/2" | 10-3/4" 8-5/8" 5-1/2" | 1222' 4991' 18366' | 512 Surface 530 Surface 460 Surface 512 Surface | Circ. Circ. | | Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 |
| 50 30-025-47296 | EOG RESOURCES, INC | CABALLO 23 FEDERAL | 407H | P | Active | 300 FSL | 2557 FEL O | 23 25\$ | 33E | 5/30/2023 | 18138 | 10862 13-1/2" 9-7/8" 6-3/4" 10443 13-1/2" 9-7/8" 6-3/4" | 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" | 1222' 4991' 18366' 1221' 5025' 18123' | 512 Surface 530 Surface 460 Surface 512 Surface 535 Surface 685 Surface | Circ. Circ. Circ. Circ. Circ. Circ. | 10840-18115' | Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone |
| 50 30-025-47296 | | CABALLO 23 FEDERAL | | | | | | | 33E | | | 10862 13-1/2" 9-7/8" 6-3/4" 10443 13-1/2" 9-7/8" 6-3/4" 10036 13-1/2" | 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" | 1222' 4991' 18366' 1221' 5025' 18123' | 512 Surface 530 Surface 460 Surface 512 Surface 535 Surface 685 Surface 512 Surface | Circ. Circ. Circ. Circ. Circ. Circ. Circ. | | Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 |
| 50 30-025-47296 | EOG RESOURCES, INC | CABALLO 23 FEDERAL | 407H | P | Active | 300 FSL | 2557 FEL O | 23 25\$ | 33E | 5/30/2023 | 18138 | 10862 13-1/2" 9-7/8" 6-3/4" 10443 13-1/2" 9-7/8" 6-3/4" 10036 13-1/2" 9-7/8" | 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" | 1222' 4991' 18366' 1221' 5025' 18123' 1237' 5011' | 512 Surface 530 Surface 460 Surface 512 Surface 535 Surface 685 Surface 512 Surface 535 Surface | Circ. Circ. Circ. Circ. Circ. Circ. Circ. Circ. | 10840-18115' | Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone |
| 50 30-025-47296 | EOG RESOURCES, INC | CABALLO 23 FEDERAL | 407H | P | Active | 300 FSL | 2557 FEL O | 23 25\$ | 33E | 5/30/2023 | 18138 | 10862 13-1/2" 9-7/8" 6-3/4" 10443 13-1/2" 9-7/8" 6-3/4" 10036 13-1/2" | 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" | 1222' 4991' 18366' 1221' 5025' 18123' | 512 Surface 530 Surface 460 Surface 512 Surface 535 Surface 685 Surface 512 Surface | Circ. Circ. Circ. Circ. Circ. Circ. Circ. | 10840-18115' | Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 |
| 50 30-025-47296 51 30-025-47297 | EOG RESOURCES, INC | CABALLO 23 FEDERAL CABALLO 23 FEDERAL | 407H 205H | P P | Active Active | 300 FSL 300 FSL | 2557 FEL O | 23 25S 23 25S | 33E 33E | 5/30/2023 | 18138 17505 | 10862 13-1/2" 9-7/8" 6-3/4" 10443 13-1/2" 9-7/8" 6-3/4" 10036 13-1/2" 9-7/8" 6-3/4" | 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" | 1222' 4991' 18366' 1221' 5025' 18123' 1237' 5011' 17490' | 512 Surface 530 Surface 460 Surface 512 Surface 535 Surface 685 Surface 512 Surface 535 Surface 685 Surface | Circ. | 10840-18115' 10337-17482' | Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone |
| 50 30-025-47296 51 30-025-47297 | EOG RESOURCES, INC | CABALLO 23 FEDERAL CABALLO 23 FEDERAL | 407H | P P | Active | 300 FSL 300 FSL | 2557 FEL O | 23 25\$ | 33E 33E | 5/30/2023 | 18138 | 10862 13-1/2" 9-7/8" 6-3/4" 10443 13-1/2" 9-7/8" 6-3/4" 10036 13-1/2" 9-7/8" 6-3/4" 10841 13-1/2" | 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" | 1222' 4991' 18366' 1221' 5025' 18123' 1237' 5011' 17490' | 512 Surface 530 Surface 460 Surface 460 Surface 512 Surface 685 Surface 685 Surface 512 Surface 535 Surface 685 Surface 685 Surface 685 Surface | Circ. | 10840-18115' | Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 |
| 50 30-025-47296 51 30-025-47297 | EOG RESOURCES, INC | CABALLO 23 FEDERAL CABALLO 23 FEDERAL | 407H 205H | P P | Active Active | 300 FSL 300 FSL | 2557 FEL O | 23 25S 23 25S | 33E 33E | 5/30/2023 | 18138 17505 | 10862 13-1/2" 9-7/8" 6-3/4" 10443 13-1/2" 9-7/8" 6-3/4" 10036 13-1/2" 9-7/8" 6-3/4" 10841 13-1/2" 9-7/8" | 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8" | 1222' 4991' 18366' 1221' 5025' 18123' 1237' 5011' 17490' 1220' 5016' | 512 Surface 530 Surface 460 Surface 512 Surface 535 Surface 685 Surface 535 Surface 685 Surface 685 Surface 685 Surface 685 Surface 685 Surface | Circ. | 10840-18115' 10337-17482' | Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone |
| 50 30-025-47296 51 30-025-47297 | EOG RESOURCES, INC | CABALLO 23 FEDERAL CABALLO 23 FEDERAL | 407H 205H | P P | Active Active | 300 FSL 300 FSL | 2557 FEL O | 23 25S 23 25S | 33E 33E | 5/30/2023 | 18138 17505 | 10862 13-1/2" 9-7/8" 6-3/4" 10443 13-1/2" 9-7/8" 6-3/4" 10036 13-1/2" 9-7/8" 6-3/4" 10841 13-1/2" | 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" | 1222' 4991' 18366' 1221' 5025' 18123' 1237' 5011' 17490' | 512 Surface 530 Surface 460 Surface 460 Surface 512 Surface 685 Surface 685 Surface 512 Surface 535 Surface 685 Surface 685 Surface 685 Surface | Circ. | 10840-18115' 10337-17482' | Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 |
| 50 30-025-47296 51 30-025-47297 52 30-025-47298 | EOG RESOURCES, INC EOG RESOURCES, INC EOG RESOURCES, INC | CABALLO 23 FEDERAL CABALLO 23 FEDERAL CABALLO 23 FEDERAL | 407H 205H 504H | P P | Active Active | 300 FSL 300 FSL 300 FSL | 2557 FEL O 2541 FEL O 2574 FEL O | 23 25S 23 25S 23 25S | 33E 33E | 5/30/2023 5/30/2023 5/30/2023 | 18138 17505 18408 | 10862 13-1/2" 9-7/8" 6-3/4" 10443 13-1/2" 9-7/8" 6-3/4" 10036 13-1/2" 9-7/8" 6-3/4" 10841 13-1/2" 9-7/8" 6-3/4" | 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" | 1222' 4991' 18366' 1221' 5025' 18123' 1237' 5011' 17490' 1220' 5016' 18393' | 512 Surface 530 Surface 460 Surface 460 Surface 512 Surface 685 Surface | Circ. | 10840-18115' 10337-17482' 11250-18385' | Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 |
| 50 30-025-47296 51 30-025-47297 52 30-025-47298 | EOG RESOURCES, INC | CABALLO 23 FEDERAL CABALLO 23 FEDERAL CABALLO 23 FEDERAL | 407H 205H | P P | Active Active | 300 FSL 300 FSL 300 FSL | 2557 FEL O | 23 25S 23 25S | 33E 33E | 5/30/2023 | 18138 17505 | 10862 13-1/2" 9-7/8" 6-3/4" 10443 13-1/2" 9-7/8" 6-3/4" 10036 13-1/2" 9-7/8" 6-3/4" 10841 13-1/2" 9-7/8" | 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8" | 1222' 4991' 18366' 1221' 5025' 18123' 1237' 5011' 17490' 1220' 5016' | 512 Surface 530 Surface 460 Surface 512 Surface 535 Surface 685 Surface 535 Surface 685 Surface 685 Surface 685 Surface 685 Surface 685 Surface | Circ. | 10840-18115' 10337-17482' | Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 |
| 50 30-025-47296 51 30-025-47297 52 30-025-47298 | EOG RESOURCES, INC EOG RESOURCES, INC EOG RESOURCES, INC | CABALLO 23 FEDERAL CABALLO 23 FEDERAL CABALLO 23 FEDERAL | 407H 205H 504H | P P | Active Active | 300 FSL 300 FSL 300 FSL | 2557 FEL O 2541 FEL O 2574 FEL O | 23 25S 23 25S 23 25S | 33E 33E | 5/30/2023 5/30/2023 5/30/2023 | 18138 17505 18408 | 10862 13-1/2" 9-7/8" 6-3/4" 10443 13-1/2" 9-7/8" 6-3/4" 10036 13-1/2" 9-7/8" 6-3/4" 10841 13-1/2" 9-7/8" 6-3/4" 10502 16" 11" | 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" | 1222' 4991' 18366' 1221' 5025' 18123' 1237' 5011' 17490' 1220' 5016' 18393' 1262' 5006' | 512 Surface 530 Surface 460 Surface 460 Surface 512 Surface 685 Surface | Circ. | 10840-18115' 10337-17482' 11250-18385' | Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 |
| 50 30-025-47296 51 30-025-47297 52 30-025-47298 | EOG RESOURCES, INC EOG RESOURCES, INC EOG RESOURCES, INC | CABALLO 23 FEDERAL CABALLO 23 FEDERAL CABALLO 23 FEDERAL | 407H 205H 504H | P P | Active Active | 300 FSL 300 FSL 300 FSL | 2557 FEL O 2541 FEL O 2574 FEL O | 23 25S 23 25S 23 25S | 33E 33E | 5/30/2023 5/30/2023 5/30/2023 | 18138 17505 18408 | 10862 13-1/2" 9-7/8" 6-3/4" 10443 13-1/2" 9-7/8" 6-3/4" 10036 13-1/2" 9-7/8" 6-3/4" 10841 13-1/2" 9-7/8" 6-3/4" 10502 16" | 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8" 5-1/2" | 1222' 4991' 18366' 1221' 5025' 18123' 1237' 5011' 17490' 1220' 5016' 18393' | 512 Surface 530 Surface 460 Surface 460 Surface 512 Surface 685 Surface 685 Surface 512 Surface 535 Surface 685 Surface 685 Surface 685 Surface 685 Surface 686 Surface 687 Surface 688 Surface 689 Surface | Circ. | 10840-18115' 10337-17482' 11250-18385' | Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 |
| 50 30-025-47296 51 30-025-47297 52 30-025-47298 | EOG RESOURCES, INC EOG RESOURCES, INC EOG RESOURCES, INC | CABALLO 23 FEDERAL CABALLO 23 FEDERAL CABALLO 23 FEDERAL | 407H 205H 504H | P P | Active Active | 300 FSL 300 FSL 300 FSL | 2557 FEL O 2541 FEL O 2574 FEL O | 23 25S 23 25S 23 25S | 33E 33E | 5/30/2023 5/30/2023 5/30/2023 | 18138 17505 18408 | 10862 13-1/2" 9-7/8" 6-3/4" 10443 13-1/2" 9-7/8" 6-3/4" 10036 13-1/2" 9-7/8" 6-3/4" 10841 13-1/2" 9-7/8" 6-3/4" 10502 16" 11" | 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8" 5-1/2" 10-3/4" 9-5/8" | 1222' 4991' 18366' 1221' 5025' 18123' 1237' 5011' 17490' 1220' 5016' 18393' 1262' 5006' | 512 Surface 530 Surface 460 Surface 460 Surface 512 Surface 535 Surface 685 Surface 535 Surface 685 Surface | Circ. | 10840-18115' 10337-17482' 11250-18385' | Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 |
| 50 30-025-47296 51 30-025-47297 52 30-025-47298 53 30-025-50734 | EOG RESOURCES, INC EOG RESOURCES, INC EOG RESOURCES, INC | CABALLO 23 FEDERAL CABALLO 23 FEDERAL CABALLO 23 FEDERAL CABALLO 23 FEDERAL | 407H 205H 504H 405H | P P | Active Active | 300 FSL 300 FSL 300 FSL | 2557 FEL O 2541 FEL O 2574 FEL O | 23 25S 23 25S 23 25S | 33E 33E 33E | 5/30/2023 5/30/2023 5/30/2023 | 18138 17505 18408 | 10862 13-1/2" 9-7/8" 6-3/4" 10443 13-1/2" 9-7/8" 6-3/4" 10036 13-1/2" 9-7/8" 6-3/4" 10841 13-1/2" 9-7/8" 6-3/4" 10502 16" 11" | 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8" 5-1/2" 10-3/4" 9-5/8" | 1222' 4991' 18366' 1221' 5025' 18123' 1237' 5011' 17490' 1220' 5016' 18393' 1262' 5006' | 512 Surface 530 Surface 460 Surface 460 Surface 512 Surface 535 Surface 685 Surface 535 Surface 685 Surface | Circ. | 10840-18115' 10337-17482' 11250-18385' | Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 |
| 50 30-025-47296 51 30-025-47297 52 30-025-47298 53 30-025-50734 | EOG RESOURCES, INC EOG RESOURCES, INC EOG RESOURCES, INC | CABALLO 23 FEDERAL CABALLO 23 FEDERAL CABALLO 23 FEDERAL CABALLO 23 FEDERAL | 407H 205H 504H 405H | P P | Active Active Active | 300 FSL 300 FSL 300 FSL 434 FSL | 2557 FEL O 2541 FEL O 2574 FEL O 366 FWL M | 23 25S 23 25S 23 25S 23 25S | 33E 33E 33E | 5/30/2023 5/30/2023 5/30/2023 | 18138 17505 18408 | 10862 13-1/2" 9-7/8" 6-3/4" 10443 13-1/2" 9-7/8" 6-3/4" 10036 13-1/2" 9-7/8" 6-3/4" 10841 13-1/2" 9-7/8" 6-3/4" 10502 16" 11" 7-7/8" | 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8" 5-1/2" 13-3/8" 9-5/8" 5-1/2" | 1222' 4991' 18366' 1221' 5025' 18123' 1237' 5011' 17490' 1220' 5016' 18393' 1262' 5006' 18141' | 512 Surface 530 Surface 460 Surface 460 Surface 512 Surface 685 Surface 680 Surface 680 Surface 681 Surface 682 Surface 683 Surface 684 Surface 685 Surface 685 Surface 685 Surface | Circ. | 10840-18115' 10337-17482' 11250-18385' 10660-18133' | Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 |
| 50 30-025-47296 51 30-025-47297 52 30-025-47298 53 30-025-50734 | EOG RESOURCES, INC EOG RESOURCES, INC EOG RESOURCES, INC | CABALLO 23 FEDERAL CABALLO 23 FEDERAL CABALLO 23 FEDERAL CABALLO 23 FEDERAL | 407H 205H 504H 405H | P P | Active Active Active | 300 FSL 300 FSL 300 FSL 434 FSL | 2557 FEL O 2541 FEL O 2574 FEL O 366 FWL M | 23 25S 23 25S 23 25S 23 25S | 33E 33E 33E | 5/30/2023 5/30/2023 5/30/2023 | 18138 17505 18408 | 10862 13-1/2" 9-7/8" 6-3/4" 10443 13-1/2" 9-7/8" 6-3/4" 10036 13-1/2" 9-7/8" 6-3/4" 10841 13-1/2" 9-7/8" 6-3/4" 10502 16" 11" 7-7/8" | 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8-5/8" 5-1/2" 10-3/4" 8" 5-1/2" 13-3/8" 9-5/8" 5-1/2" | 1222' 4991' 18366' 1221' 5025' 18123' 1237' 5011' 17490' 1220' 5016' 18393' 1262' 5006' 18141' | 512 Surface 530 Surface 460 Surface 460 Surface 512 Surface 535 Surface 685 Surface 535 Surface 685 Surface 680 Surface 680 Surface 631 Surface 632 Surface 633 Surface 6340 Surface | Circ. | 10840-18115' 10337-17482' 11250-18385' 10660-18133' | Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 Red Hills; Lower Bone Spring [51020] Drilled after the issuance of Order R-21061 |
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STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION

APPLICATION OF EOG RESOURCES, INC. FOR A TWO-YEAR EXTENSION OF ITS CLOSED LOOP GAS CAPTURE PILOT PROJECT AUTHORIZED UNDER ORDER NO R-21061, LEA COUNTY, NEW MEXICO.

CASE NO. 23810

SELF-AFFIRMED STATEMENT OF PATRICK GEESAMAN, PETROLEUM GEOLOGIST

1. My name is Patrick Geesaman and I am employed by EOG Resources, Inc.

("EOG") as an Petroleum Geologist.

2. My responsibilities include the Permian Basin of New Mexico and Texas. I have

not previously testified before the New Mexico Oil Conservation Division as an expert witness in

petroleum geology. My resume, attached as **EOG Exhibit C-1**, outlines my education and work

experience which I believe qualify me to testify as an expert in petroleum geology.

3. I am familiar with the application filed by EOG in this matter and with the

underlying facts and issues and have conducted geologic review of the subject lands.

4. I prepared an analysis summarizing the geologic conditions at the location of the

micro-annulus/cement channeling that was identified at or below the intermediate casing shoe in

the Well at approximately 5,005 feet measured depth ("MD").

5. The Well's intermediate casing is set within a competent anhydrite at the base of

the Ochoan Evaporite series, which is comprised of approximately 4,000 feet of alternating halite

and anhydrite layers both of which are some of the best geologic seals on earth. Halite is both

extremely impermeable and undergoes plastic deformation, meaning it flows over time rather than

fracturing, resulting in few geologic conduits within this zone.

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. C
Submitted by: EOG Resources, Inc.
Hearing Date: October 5, 2023

- 6. **EOG Exhibit C-2** is an exhibit I prepared with an inset map on the left that depicts a line of cross-section from A to A' with the **Caballo 23 Federal Well No. 2H** (API No. 30-025-40051) (the "Well") indicated by a red star. On the right side of the exhibit is a cross-section using well logs identified from A to A', including the Well.
- 7. Any fluids that might possibly escape from the Well at the location of the micro-annulus/cement channeling is unlikely to migrate upward from immediate vicinity of the well casing given the impermeable nature of the Ochoan Evaporites. The 4,000-foot band of evaporites serves as an effective geologic seal, creating a barrier to downward and upward migration, protecting shallow aquifers.
- 8. From the base of the Ochoan Evaporites and the bottom of the intermediate casing down to the target injection interval within the Avalon shale member of the Bone Spring formation there is more than 4,400 feet of interbedded silt, shale, and carbonates. This interbedded, mixed lithology of low-permeability intervals also limit the possibility of communication between the location of the intermediate casing and the injection interval within the Avalon Shale of the Bone Spring formation.
- 9. Thus, even if the micro-annulus/cement channeling were to extend down some distance into the Bell Canyon member of the Delaware Mountain Group, the interbedded, low-permeability intervals of silt, shale, and carbonate would likely prevent extensive vertical migration of fluids.
- 10. I also conducted a review of producing wells within the Delaware Mountain Group in the vicinity. The nearest producing well is approximately two miles away to the southeast and last produced just over 700 barrels of oil in 1984.

Conclusion

- 11. Based on my review of the geology in this area, it is my opinion that approval of this application will not impair correlative rights and will protect the environment and groundwater.
- 12. Exhibits C-1 through C-2 were either prepared by me or compiled under my direction and supervision.
- 13. 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.

10/3/2023 Date

BEFORE THE OIL CONSERVATIONS IN THE STATE OF THE STATE OF

Santa Fe, New Mexico
Exhibit No. C-1
Ihmitted by: FOG Resources I

Submitted by: EOG Resources, Inc.
Hearing Date: October 5, 2023
Case No. 23810

Patrick Geesaman

2313 Maxwell Dr. Midland TX, 79705 Cell: (720) 938-0104 Email: Patrick Geesaman@eogresources.com

EMPLOYMENT HISTORY:

Delaware Basin Geology and Geophysics Team Lead

EOG Resources, Midland, Texas

October 2020 to Current

- Managed staff of 12-14 geologists, geophysicists and geotechnical support
- Completed yearly evaluations of all reporting staff
- Collaborated with division planners to design yearly drilling program
- Assisted subsurface team in planning and execution of development activity that includes over 300 oil and gas wells per year
- Presented technical work at internal conferences
- Lead technical team meetings to share learnings across division
- Trained peers when they were promoted to management position
- Assisted in the interview process and hiring of new staff
- Performed recruitment at Colorado School of Mines for yearly intern program

Delaware Basin Geologist

EOG Resources, Midland, Texas

May 2018 to October 2020

- Planned horizontal development of assigned acreage with interdisciplinary team of reservoir engineer, mineral land, surface land and facilities engineers
- Presented material to management with interdisciplinary team for approval for expenditures including well drilling and completions
- Assisted in the drilling of 115 horizontal oil and gas wells by providing structural maps, geologic interpretation, and monitoring during drilling activities
- Worked with division petrophysicist to plan data acquisition programs for 3 pilots
- Mentored recently hired geologists

Delaware Basin Geologist

Anadarko Petroleum Corporation, Houston / Midland, Texas

Feb 2014 to May 2018

- Mapped reservoir properties of multiple productive intervals of the Delaware Basin
- Estimated oil and gas in place volumes on a per section basis for multiple formations
- Designed appraisal programs for a target interval in the Bone Spring formation and assisted in appraisal programs for other targets within the Wolfcamp formation
- Planned fully integrated data acquisition for upper Wolfcamp development
- Mapped reservoir characteristics of the upper Wolfcamp sands and interbedded shales
- Assisted in the planning, drilling and completion of approximately fifteen upper Wolfcamp wells, five upper Avalon wells, and one Second Bone Spring Sand well in Loving County, TX
- Worked as a geologist / project manager with multi-disciplinary team to plan three focused developments (5-10 sections) across Anadarko leasehold
- Evaluated stratigraphic column for potential development via reservoir mapping and competitor analysis
- Determined well spacing and co-development patterns for future development of Wolfcamp formation
- Collaborated with technical teams (petrophysics, mechanistic modelling) to improve current understanding of subsurface

EDUCATION:

Master of Science in Geology

Colorado School of Mines, Golden, CO

Graduation Date: Fall 2013 GPA: 3.96

GPA: 3.74

Bachelor of Science in Earth Science, Geology Option

Montana State University, Bozeman, MT

Graduation Date: Summer 2011

Released to Imaging: 10/4/2023 8:42:17 AM

RELAVENT EXPERIENCE:

Geology Intern

ExxonMobil, Houston, Texas

Summer 2013

- Correlated logs of the La Luna Formation of the Middle Magdelena basin of Colombia with a focus on the sequence stratigraphic framework
- Mapped La Luna Formation in a 3D seismic volume in structurally complex transpressional province of the Middle Magdalena Basin

Summer Field Assistant Summer 2012

Salt Sediment Interaction Consortium, South Australia, Australia

- Assisted in mapping multi-faceted structures associated with salt tectonics in the Flinders Ranges, South Australia
- Focused on structural geometries & stratigraphy related with salt diapirs & allochthonous salt

Field Assistant Summer 2011

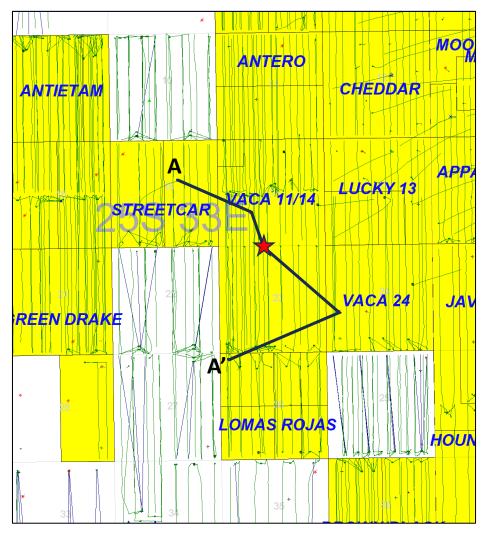
Montana State Carbon Sequestration Research, Northwest Montana

Mapped complicated thrust fault geometries in the fold and thrust belt of NW Montana

Field Assistant Summer 2010

Montana State Sedimentary Geology Lab, Spain, France, Italy

- Measured multiple detailed stratigraphic sections of submarine sandstones; reported grain sizes, collected field samples, and photographed outcrops
- Interpreted photo mosaics
- Communicated with locals and purchased groceries, maps, and other day to day tasks; field logistics



BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Exhibit No. C-2 Submitted by: EOG Resources Inc.

Case No. 23810

Exhibit No. C-2
Submitted by: EOG Resources Inc.
Released to Imagin Jeaning Pate: October 5, 2033

LOMAS ROJAS STATE COM 26 #1H 30023385110000 ELEV, KB : 3,375 Page Wof 59 0.2 200 LLS 0.2 2000 0.3 -0. 0.2 20000.3 -0. 0.2 200 LLD LLD DPHI_LIN LLD PHI_LIN LLD DPHI_LIN 0.2 20000.3 -0.19 0.2 20000.3 -0.191 35 0.2 2000 0.3 -0.191 35 0.2 2000 **Casing Point Avalon Shale 4** 1 Injection interval

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

APPLICATION OF EOG RESOURCES, INC. FOR A TWO-EAR EXTENSION OF ITS CLOSED LOOP GAS CAPTURE PILOT PROJECT AUTHORIZED UNDER ORDER NO R-21061, LEA COUNTY, NEW MEXICO.

CASE NO. 23810

<u>AFFIDAVIT</u>

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

Adam G. Rankin, attorney in fact and authorized representative of the Applicant herein, being first duly sworn, upon oath, states

- 1. The above-referenced application and notice of the hearing on this application was sent by certified mail to the affected parties on the date set forth in the letter attached hereto.
- 2. The spreadsheet attached hereto contains the names of the parties to whom notice was provided.
- 3. The spreadsheet attached hereto contains the information provided by the United States Postal Service on the status of the delivery of this notice as of October 2, 2023.
- 4. I caused a notice to be published to all parties on September 17, 2023. An affidavit of publication from the publication's legal clerk with a copy of the notice publication is attached as Exhibit E.

Adam G. Rankin

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. D
Submitted by: EOG Resources, Inc.

Hearing Date: October 5, 2023

Case No. 23810

SUBSCRIBED AND SWORN to before me this 3rd day of October, 2023 by

Adam G. Rankin.

My Commission Expires:

STATE OF NEW MEXICO
NOTARY PUBLIC
KARI D PEREZ
COMMISSION # 1138272
COMMISSION EXPIRES 06/28/2026

Votary Public



Adam G. Rankin Partner Phone (505) 988-4421 agrankin@hollandhart.com

September 15, 2023

<u>VIA CERTIFIED MAIL</u> CERTIFIED RECEIPT REQUESTED

TO: ALL AFFECTED PARTIES

Re: Application of EOG Resources, Inc. for a Two-Year Extension of its Closed

Loop Gas Capture Pilot Project Authorized Under Order No. R-21061, Lea

County, New Mexico.

Caballo 23 Fed No. 2H Well

Ladies & Gentlemen:

This letter is to advise you that EOG Resources, Inc. has filed the enclosed application with the New Mexico Oil Conservation Division. A hearing has been requested before a Division Examiner on October 5, 2023, and the status of the hearing can be monitored through the Division's website at https://www.emnrd.nm.gov/ocd/.

Due to the remodeling of the state building where the New Mexico Oil Conservation Division is located, hearings will be conducted remotely beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted on the OCD Hearings website: https://www.emnrd.nm.gov/ocd/hearing-info/.

You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging the matter at a later date. Parties appearing in cases are required to file a Pre-hearing Statement four business days in advance of a scheduled hearing that complies with the provisions of NMAC 19.15.4.13.B.

If you have any questions about this matter please contact Sarah Mitchell, at (432) 848-9133 or sarah mitchell@eogresources.com.

Sincerely,

Adam G. Rankin

ATTORNEY FOR EOG RESOURCES, INC.

Location 110 North Guadalupe, Suite 1 Santa Fe, NM 87501-1849 Mailing Address
P.O. Box 2208
Santa Fe, NM 87504-2208

Contact p: 505.988.4421 | f: 505.983.6043 www.hollandhart.com

Holland & Hart LLP Anchorage Aspen Billings Boise Boulder Cheyenne Denver Jackson Hole Las Vegas Reno Salt Lake City Santa Fe Washinaton, D.C.

EOG - Caballo CLGC Extention - Case no. 23810 Postal Delivery Report

| | | | | | | Your package will arrive later than expected, but is |
|------------------------|--|--------------------------------|----------|----|------------|--|
| | BTA Oil Producers, LLCAttn Willis Price Land | | | | | still on its way. It is currently in transit to the next |
| 9414811898765413394894 | Manager | 104 S Pecos St | Midland | TX | 79701-5021 | facility. |
| | | | | | | Your item was delivered to an individual at the |
| | XTO Energy Attn Permian Basin Land | | | | | address at 9:39 am on September 22, 2023 in |
| 9414811898765413394849 | Department | 22777 Springwoods Village Pkwy | Spring | TX | 77389-1425 | SPRING, TX 77379. |
| | | | | | | Your package will arrive later than expected, but is |
| | | | | | | still on its way. It is currently in transit to the next |
| 9414811898765413394887 | COG Operating LLC Attn Land Department | 600 W Illinois Ave | Midland | TX | 79701-4882 | facility. |
| | | | | | | Your item was delivered to an individual at the |
| | | | | | | address at 12:30 pm on September 21, 2023 in |
| 9414811898765413394832 | Bureu of Land Management | 301 Dinosaur Trl | Santa Fe | NM | 87508-1560 | SANTA FE, NM 87508. |
| | | | | | | Your item has been delivered to an agent for final |
| | | | | | | delivery in CARLSBAD, NM 88220 on September |
| 9414811898765413394870 | Bureu of Land Management | 320 E Greene St | Carlsbad | NM | 88220-6269 | 25, 2023 at 1:00 pm. |

Affidavit of Publication

STATE OF NEW MEXICO COUNTY OF LEA

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

> Beginning with the issue dated September 17, 2023 and ending with the issue dated September 17, 2023.

Publisher

Sworn and subscribed to before me this 17th day of September 2023.

Business Manager

My commission expires

January 29, 3027E OF NEW MEXICO
(Seal) NOTARY PUBLIC
GUSSIE RUTH BLACK
COMMISSION # 1087526
COMMISSION EXPIRES 01/29/2027

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said publication has been made.

LEGAL NOTICE September 17, 2023

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

The State of New Mexico, Energy Minerals and Natural Resources Department, Oil Conservation Division ("Division") hereby gives notice that the Division will hold public hearings before a hearing examiner on the following cases. The hearings will be conducted remotely on Thursday, October 5, 2023, beginning at 8:15 a.m. To participate in the hearings, see the instructions posted below. The docket may be viewed at https://www.emnrd.nm.gov/ocd/hearing-info/ or obtained from Marlene Salvidrez, at Marlene.Salvidrez@emnrd.nm.gov. Documents filed in these cases may be viewed at https://ocdimage.emnrd.nm.gov/lmaging/Default.aspx. If you are an individual with a disability who needs a reader, amplifier, qualified sign language interpreter, or other form of auxiliary aid or service to attend or participate in a hearing, contact Marlene Salvidrez at Marlene.Salvidrez@emnrd.nm.gov, or the New Mexico Relay Network at 1-800-659-1779, no later than September 25, 2023.

Persons may view and participate in the hearings through the following link: https://nmemnrd.webex.com/nmemnrd/j.php?MTID=m020a671a1f0dca6e32980a60729bbb0f

Webinar number: 2488 867 1311

Join by video system: 24888671311@nmemnrd.webex.com You can also dial 173.243.2.68 and enter your webinar number

Join by phone: 1-844-992-4726 United States Toll Free +1-408-418-9388 United States Toll

Access code: 2488 867 1311
Panelist password: EiMmNJYA667 (34666592 from phones and video systems)

STATE OF NEW MEXICO TO: All named parties and persons having any right, title, interest or claim in the following case and notice to the public.

(NOTE: All land descriptions herein refer to the New Mexico Principal Meridian whether or not so stated.)

To: All affected interest owners, including: BTA Oil Producers, LLC; XTO Energy; COG Operating LLC, and Bureau of Land Management.

Case No. 23810: Application of EOG Resources, Inc. for a Two-Year Extension of its Closed Loop Gas Capture Pilot Project Authorized Under Order No. R-21061, Lea County, New Mexico. Applicant in the above-styled cause seeks an order authorizing a two-year extension of its closed loop gas capture pilot project approved under Order No. R-21061 until December 31, 2025 ("Pilot Project"), with the option to request additional two-year extensions. EOG is authorized under Order R-21061 to use the Caballo 23 Fed No. 2H Well (API No. 30-025-40051) to engage in a closed loop gas capture pilot project to occasionally inject produced gas into the Leonard Shale interval of the Bone Spring formation at a total vertical depth of approximately 9,418 feet to 9,457 feet along the horizontal portion of the wellbore at surface injection pressures of no more than 3,500 psi. The source of the produced gas is the Bone Spring, Wolfcamp, and Atoka formations. The well is a horizontal well located in the E/2 W/2 (Unit C) of Section 23, Township 25 South, Range 33 East, NMPM, in Lea County, New Mexico. It is currently producing from the Bone Spring formation(Red Hills; Upper Bone Spring Shale Pool (Pool Code 97900)) and dedicated to a standard horizontal well spacing unit comprised of the E/2W/2 of Section 23. The subject acreage is located approximately 20 miles west of Jal, New Mexico.

#00282834

67100754

00282834

HOLLAND & HART LLC PO BOX 2208 SANTA FE, NM 87504-2208

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. E
Submitted by: EOG Resources, Inc.
Hearing Date: October 5, 2023
Case No. 23810