

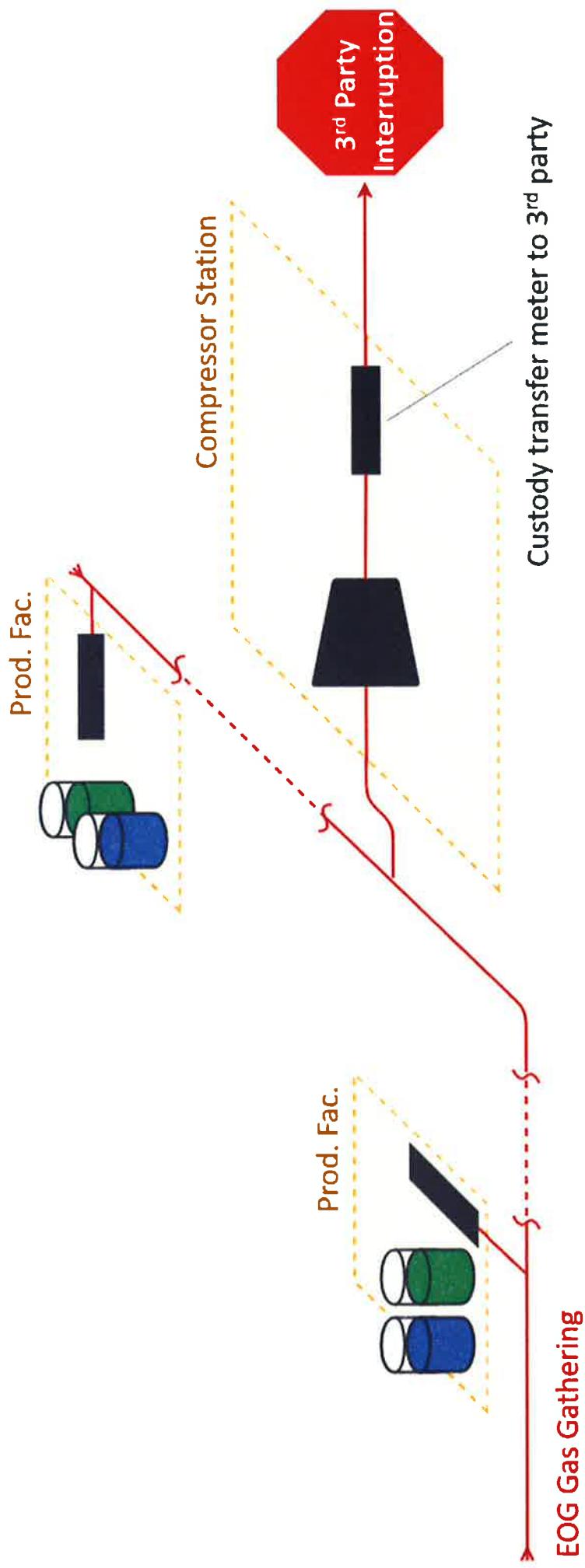
**BEFORE THE OIL CONSERVATION DIVISION
EXAMINER HEARING DECEMBER 12, 2019**

CASE NO. 20965

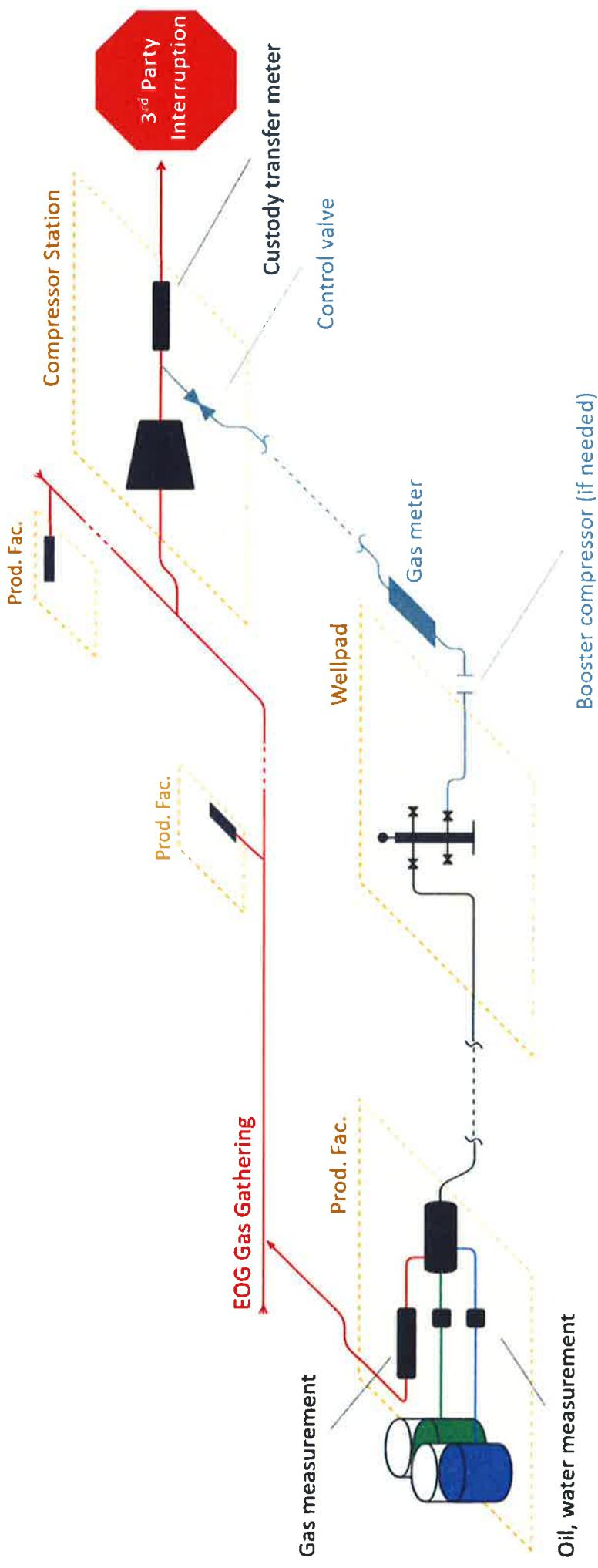
CABALLO 23FED NO. 2H

LEA COUNTY, NEW MEXICO

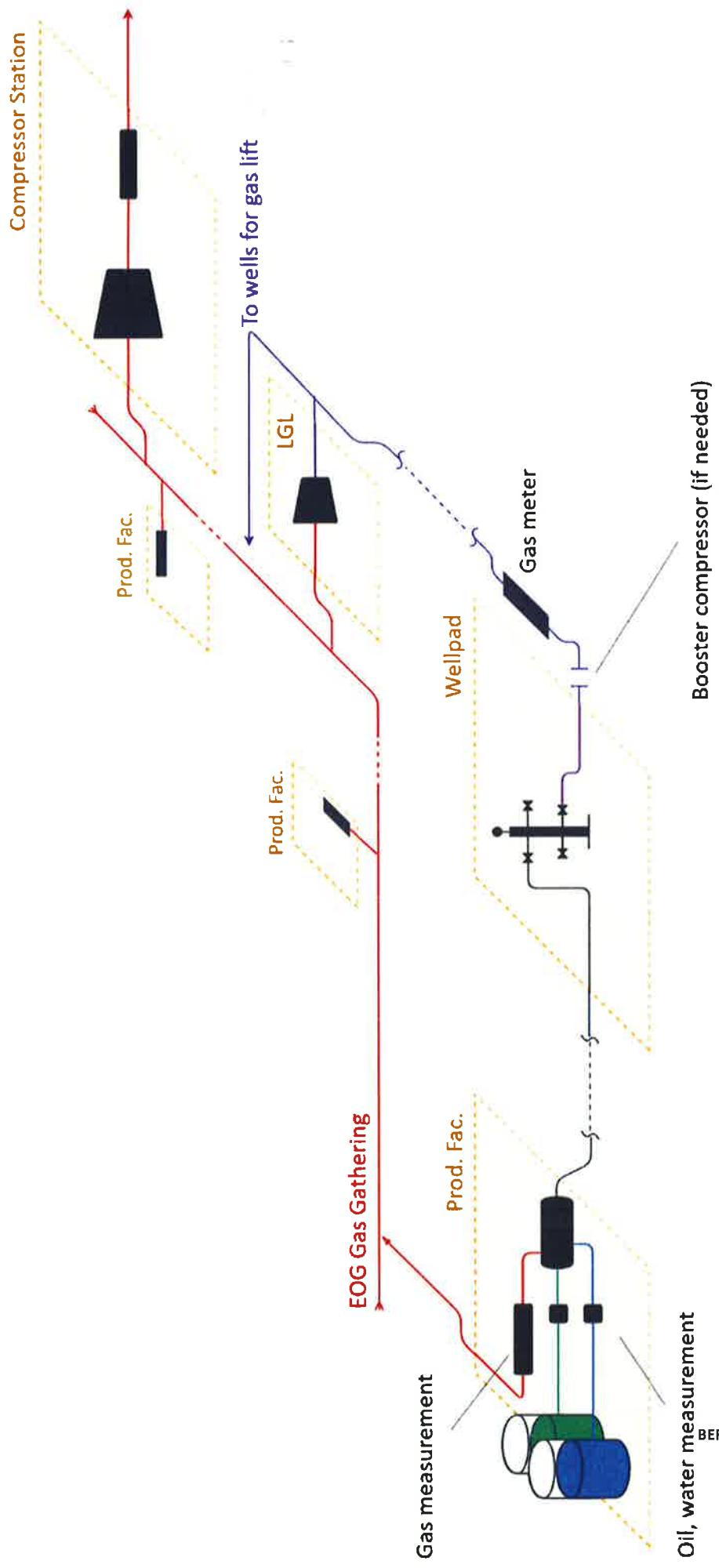




BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. 1
Submitted by: EOG Resources, Inc.
Hearing Date: December 12, 2019
Case # 20965



BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. 2
Submitted by: EOG Resources, Inc.
Hearing Date: December 12, 2019
Case # 20965



BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Exhibit No. 3

Submitted by: EOG Resources, Inc.

Hearing Date: December 12, 2019

Case # 20965

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Adrienne Sandoval, Director
Oil Conservation Division



October 24, 2019

EOG Resources, INC.
Attention: Patrick Padilla
5509 Champions Dr, Midland TX 79706

Re: EOG Resources Closed Loop Gas Capture Pilot Project

Dear Patrick Padilla,

This letter responds to your request for guidance regarding the procedure for requesting approval from the Oil Conservation Division ("OCD") for the EOG Resources Closed Loop Gas Capture Pilot Project ("Pilot Project"). On October 4, 2019, EOG Resources gave a presentation to OCD regarding the Pilot Project, which does not appear to fall within the types of injection wells regulated under 19.15.26 NMAC. Accordingly, the OCD Director will exercise her authority under the Oil and Gas Act, NMSA 1978, Section 70-2-11(A), to consider an application for an order to implement the Pilot Project, subject to the following conditions:

- 1) No later than sixty (60) days after the date of this letter, submit an application for hearing containing or agreeing to provide the following information:

Project Description

- i) Describe the need and background for the project.
- ii) Summarize the project goals and steps to obtain them.

Duration

- i) Provide a project timeline that does not extend more than 1 year after the date of issuance of an order.

Technical Information and Standards for Installation and Operation

- i) Supply a reservoir characterization and justification of reservoir suitability including the formation's lithology, and the general stratigraphy of the injection interval.
- ii) Provide reservoir modeling and technical analysis to analyze whether the injected gas will migrate from the formation, interfere with other wells, or affect underground sources of drinking water.
- iii) Provide a technical analysis to evaluate whether the injected gas will have a net positive, neutral, or negative effect on the pool's ultimate recovery. BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Exhibit No. 4

Submitted by: EOG Resources, Inc.
Hearing Date: December 12, 2019
Case # 20965

-
- iv) Provide a well diagram, casing information, drilling reports, and CBL for the well.
 - v) Confirm that the well will meet the following minimum requirements: (a) the casing burst pressure shall be at least 120% of the maximum allowable surface pressure plus the hydrostatic pressure from a full column of reservoir fluid; and (b) the drilling reports and CBL reflect complete cement coverage for the entire vertical length of the well.
 - vi) Perform an assessment of the surrounding wells to ensure they meet the requirements in subsection (v).
 - vii) Demonstrate that the mechanical integrity of the well complies with 19.15.26.11(A)(1) NMAC to a minimum pressure of 110% of the maximum allowable surface pressure.
 - viii) Demonstrate that the injected gas does not contain corrosive gas such as H₂S or CO₂ that may damage the casing.
 - ix) If the proposed maximum allowable surface pressure is greater than 0.14 psi/ft, comply with the following requirements:
 - (a) Justify the proposed maximum allowable surface pressure.
 - (b) Demonstrate with appropriate data the fracture and propagation pressure for the targeted horizon.
 - (c) Provide the expected bottom hole hydrostatic pressure generated by a fluid column consisting of the injected gas.
 - (d) Demonstrate with appropriate data that the maximum allowable surface pressure 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.
 - (e) Install equipment to prevent the downhole pressure from exceeding 90% of the reported propagation pressure.
 - x) Provide any additional information requested by the OCD Director.

Monitoring

- i) Install equipment to prevent the surface pressure from exceeding the maximum allowable surface pressure.
- ii) If operations will be conducted remotely, establish a SCADA system to collect all relevant data for safe operations, including the production flow rate, injection gas flow rate, surface pressure, and downhole pressure.

Reporting

- i) Submit a C-115 form each month which identifies the production and injection volumes, pressures, and days in operation.

Corrective Action

- i) Provide a plan of action for environmental and engineering emergencies.

Post-Project Report

- ii) Submit a compilation of the following data: injection rates, injection volumes, injection interval durations, maximum pressure reached during injection intervals (surface and downhole), production rates, gas recovery rate, and delta pressures for adjacent wells during injection.

OCD Review Process for EOG Resources Closed Loop Gas Capture Pilot Project

October 24, 2019

Page 3 of 3

- 2) Give notice of the application and the hearing in accordance with 19.15.26.8(B)(2) NMAC.
- 3) Interested persons may attain party status in the hearing pursuant to 19.15.4.10 & 11 NMAC.
- 4) The hearing will be conducted in accordance with 19.15.4.13 through 26 NMAC.
- 5) The OCD Director may approve this application and impose conditions in the order as she deems necessary to prevent waste, protect correlative rights, and protect the public health and environment.
- 6) OCD will determine the process for broader implementation of the technology used in the Pilot Project after review of the results and further consideration of the regulatory and technical issues.
- 7) This procedure is applicable only to the Pilot Project.

We look forward to working with you on this Pilot Project. If you have any questions about this letter, please call Phil Goetz, UIC Coordinator, at (505)476-3466.

Sincerely,



Adrienne Sandoval
Director

cc: Phil Goetz

CHAVES

YOAKUM

GAINES

LEA

EDDY

ANDREWS



CULBERTSON

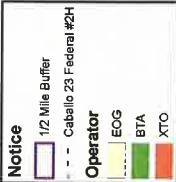
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REEVES

WINKLER

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BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. 5
Submitted by: EQG Resources, Inc.
Hearing Date: December 12, 2019
Case # 20965



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BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Exhibit No. 6

Submitted by: EOG Resources, Inc.

Hearing Date: December 12, 2019

Case # 20965

STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
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 COUNT ,
NEW MEXICO.

CASE NO. 20965

AFFIDAVIT

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

Adam G. Rankin, attorney in fact and authorized representative of EOG Resources, Inc., the Applicant herein, being first duly sworn, upon oath, states that the above-referenced Application has been provided under the notice letters and proof of receipts attached hereto.

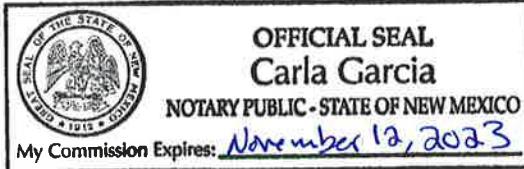


Adam G. Rankin

SUBSCRIBED AND SWORN to before me this 11th day of December, 2019 by Adam G. Rankin.

My Commission Expires:

November 12, 2023



BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. 7

Submitted by: EOG Resources, Inc.
Hearing Date: December 12, 2019
Case # 20965



Adam G. Rankin
Phone (505) 988-4421
Fax (505) 983-6043
agrakin@hollandhart.com

November 22, 2019

VIA CERTIFIED MAIL
CERTIFIED RECEIPT REQUESTED

TO: AFFECTED PARTIES

**Re: 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.
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 December 12, 2019 and the status of the hearing can be monitored through the Division's website at <http://www.emnrd.state.nm.us/ocd/>. Division hearings will commence at 8:15 a.m. in Porter Hall at the Oil Conservation Division's Santa Fe Offices located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest that may be affected by 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 by Division Rule 19.15.4.13.B to file a Pre-hearing Statement four business days in advance of a scheduled hearing. This statement must be filed at the Division's Santa Fe office at the above specified address and should include: the names of the parties and their attorneys; a concise statement of the case; the names of all witnesses the party will call to testify at the hearing; the approximate time the party will need to present its case; and identification of any procedural matters that are to be resolved prior to the hearing.

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
ATTORNEYS FOR EOG RESOURCES, INC.

13816087_v1

T505.988.4421 F505.983.6043
110 North Guadalupe, Suite 1, Santa Fe, NM 87501-1849
Mail to: P.O. Box 2208, Santa Fe, NM 87504-2208
www.hollandhart.com

Alaska
Colorado
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Montana
Nevada
New Mexico

Utah
Washington, D.C.
Wyoming

EOG - Caballo 23 Fed No. 2H
Case No. 20965

Postal Delivery Report

| Tracking Number | Recipient | Status |
|------------------------|---|------------------------------------|
| 9214890194038399904486 | BTA Oil Producers LLC Attn: Willis Price Land Manager 104 South Pecos Midland TX 79701 | Delivered Signature Received |
| 9214890194038399904493 | XTO Energy Attn: Permian Basin Land Department 22777 Springwoods Village Pkwy Spring TX 77389 | Delivered Signature Received |
| 9214890194038399904509 | COG Operating LLC Attn: Land Department 600 W Illinois Ave Midland TX 79701 | Delivered Signature Received |
| 9214890194038399904516 | Bureau of Land Management 301 Dinosaur Trail Santa Fe NM 87508 | Delivered Signature Received |
| 9214890194038399904523 | Bureau of Land Management 620 E Greene St Carlsbad NM 88220 | Delivered Signature Received |



\$5.60 x 5 = (\$28-)

Shipment Confirmation Acceptance Notice

A. Mailer Action

Note to Mailer: The labels and volume associated to this form online, **must** match the labeled packages being presented to the USPS® employee with this form.

EOG - Caballo 23 Fed No. 2H
Case No. 20965
CM# 44497.0001

Shipment Date: 11/22/2019

Shipped From:

Name: HOLLAND & HART LLP

Address: 110 N GUADALUPE ST # 1

City: SANTA FE

State: NM ZIP+4® 87501

| Type of Mail | Volume |
|------------------------------|--------|
| Priority Mail Express® | |
| Priority Mail® | 0 |
| First-Class Package Service® | |
| Returns | |
| International* | |
| Other | 5 |
| Total | 5 |

*Start time for products with service guarantees will begin when mail arrives at the local Post Office™ and items receive individual processing and acceptance scans.

B. USPS Action

Note to RSS Clerk:

1. Home screen > Mailing/Shipping > More
2. Select Shipment Confirm
3. Scan or enter the barcode/label number from PS Form 5630
4. Confirm the volume count message by selecting Yes or No
5. Select Pay and End Visit to complete transaction

USPS EMPLOYEE: Please scan upon pickup or receipt of mail.
Leave form with customer or in customer's mail receptacle.

USPS SCAN AT ACCEPTANCE



9275 0901 1935 6200 0018 5758 89





Firm Mailing Book For Accountable Mail

| Name and Address of Sender | USPS Tracking/Article Number | Check type of mail or service | | | Handling Charge - if Registered and over \$50,000 in value | | | | | | Signature Confirmation Restricted Delivery | | | | | | | | |
|---|------------------------------|--|---|--|--|---------------------------------------|--|------|------|-----------------------------|--|---|---|---|----------|--------|--------|----------|--------|
| | | <input type="checkbox"/> Adult Signature Required | <input type="checkbox"/> Priority Mail Express | <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail | | | | | | | <input type="checkbox"/> Signature Confirmation | <input type="checkbox"/> Postmark with Date of Receipt. | | | | | | |
| Holland & Hart LLP 110 N Guadalupe St # 1 Santa Fe NM 87501 | 1. | <input checked="" type="checkbox"/> Certified Mail | <input type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> Collect on Delivery (COD) | <input type="checkbox"/> Signature Confirmation | <input type="checkbox"/> Insured Mail | <input type="checkbox"/> Restricted Delivery | 0.50 | 3.50 | Postage (Extra Service) Fee | Handling Charge | Actual Value if Registered | Insured Value | Due Sender if COD | ASRD Fee | RR Fee | SC Fee | SCRD Fee | SH Fee |
| | 2. | <input type="checkbox"/> XTO Energy Attn: Permian Basin Land Department 22777 Springwoods Village Pkwy Spring TX 77389 | <input type="checkbox"/> Bureau of Land Management 301 Dinosaur Trail Santa Fe NM 87508 | <input type="checkbox"/> Bureau of Land Management 620 E Greene St Carlsbad NM 88220 | <input type="checkbox"/> Bureau of Land Management 620 E Greene St Carlsbad NM 88220 | 0.50 | 3.50 | | | | | | | | | | | | |
| | 3. | <input type="checkbox"/> COG Operating LLC Attn: Land Department 600 W Illinois Ave Midland TX 79701 | <input type="checkbox"/> Bureau of Land Management 301 Dinosaur Trail Santa Fe NM 87508 | <input type="checkbox"/> Bureau of Land Management 620 E Greene St Carlsbad NM 88220 | <input type="checkbox"/> Bureau of Land Management 620 E Greene St Carlsbad NM 88220 | 0.50 | 3.50 | | | | | | | | | | | | |
| | 4. | <input type="checkbox"/> Bureau of Land Management 301 Dinosaur Trail Santa Fe NM 87508 | <input type="checkbox"/> Bureau of Land Management 620 E Greene St Carlsbad NM 88220 | <input type="checkbox"/> Bureau of Land Management 620 E Greene St Carlsbad NM 88220 | <input type="checkbox"/> Bureau of Land Management 620 E Greene St Carlsbad NM 88220 | 0.50 | 3.50 | | | | | | | | | | | | |
| | 5. | <input type="checkbox"/> Bureau of Land Management 620 E Greene St Carlsbad NM 88220 | <input type="checkbox"/> Bureau of Land Management 620 E Greene St Carlsbad NM 88220 | <input type="checkbox"/> Bureau of Land Management 620 E Greene St Carlsbad NM 88220 | <input type="checkbox"/> Bureau of Land Management 620 E Greene St Carlsbad NM 88220 | 0.50 | 3.50 | | | | | | | | | | | | |
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Postmaster, Per (Name of receiving employee)

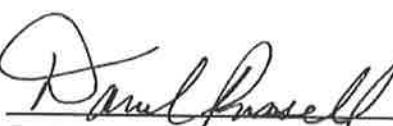
Privacy Notice: For more information on USPS privacy policies, visit usps.com/privacy/policy.

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 November 28, 2019 and ending with the issue dated November 28, 2019.



Publisher

Sworn and subscribed to before me this 28th day of November 2019.

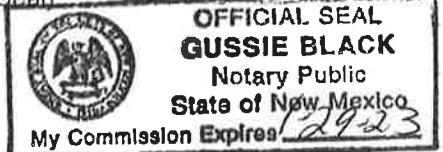


Business Manager

My commission expires

January 29, 2023

(Seal)



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

LEGAL

LEGAL

LEGAL

LEGAL NOTICE
NOVEMBER 28, 2019

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

The State of New Mexico through its Oil Conservation Division hereby gives notice pursuant to law and the Rules and Regulations of the Division of the following public hearing to be held at 8:15 A.M. on December 12, 2019, in Porter Hall, the Oil Conservation Division Hearing Room, 1st Floor, Wendell Chino Building, 1220 South St. Francis, Santa Fe, New Mexico, before an examiner duly appointed for the hearing. If you are an individual with a disability who is in need of a reader, amplifier, qualified sign language interpreter, or any other form of auxiliary aid or service to attend or participate in the hearing, please contact: Florene Davidson at 505-476-3458 or through the New Mexico Relay Network, 1-800-659-1779 by December 2, 2019. Public documents, including the agenda and minutes, can be provided in various accessible formats. Members of the public may obtain copies of the docket by contacting Ms. Davidson at the phone number indicated above. Also, the docket will be posted on the Oil Conservation Division website at www.emnrd.state.nm.us/OCD/. Please contact Ms. Davidson if a summary or other type of accessible form is needed.

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 parties, including: BTA Oil Producers, LLC; XTO Energy; COG Operating LLC; and Bureau of Land Management.

CASE 20965: 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. Applicant in the above-styled cause seeks an order authorizing it to engage in a gas capture pilot project in the Leonard Shale interval of the Bone Spring formation by occasionally injecting into its the Caballo 23 Feb 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. This well 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. EOG seeks to authority to utilize this producing well 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 delivered to the Localized Gas Lift Compressor Station. The subject acreage is located approximately 20 miles west of Jai, New Mexico.
#34908

67100754

00236541

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

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Exhibit No. 8

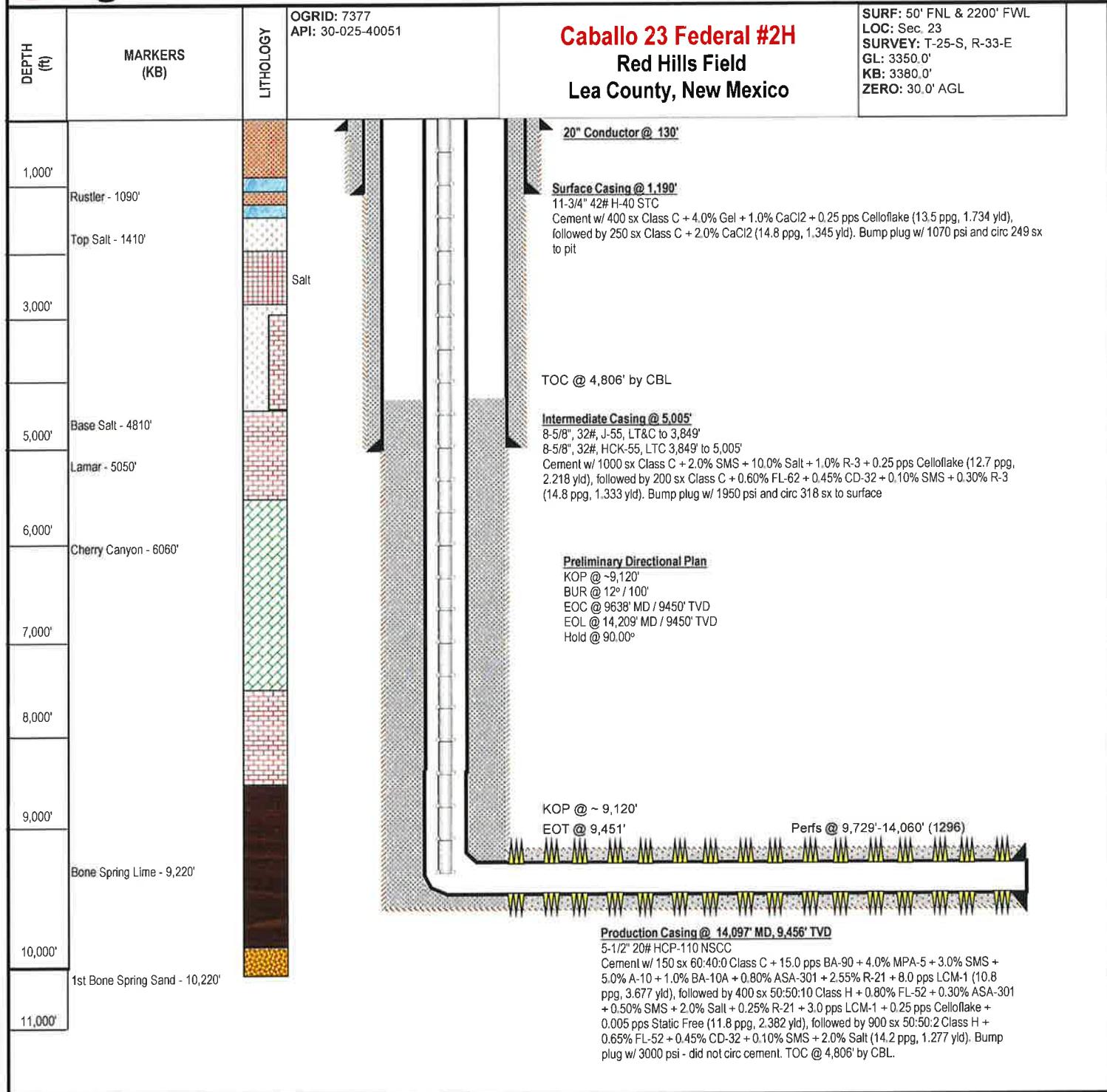
Submitted by: EOG Resources, Inc.

Hearing Date: December 12, 2019

Case # 20965



CURRENT WELL SKETCH



BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Exhibit No. 9

Submitted by: EOG Resources, Inc.

Hearing Date: December 12, 2019

Case # 20965

EOG Resources
Well Name: Caballo 23 Federal #2H
Operator: EOG Resources
Field: Red Hills
Location: NW 1/4 Sec 23, T-25-S, R-33-E
County, State: Lea County, NM
Spud Date: 10/27/2011 @ 13:00 hrs
FRR Date: 11/13/11 @ 01:30 hrs
Orig. Rig: Cactus 123
Planned TD: ~14,209' MD, 9450' TVD
Final TD: 14,110' MD, 9456' TVD

| Bit Size, In | Depth | Shoe Test | Casing Program |
|--------------|---------|--|-------------------------|
| - | 130' | — | 20" Conductor |
| 17.5" | 1,190' | | 11-3/4" 42# J-55 STC |
| 12.25" | 5,005' | 8-5/8", 32#, J-55, LT&C to 3,849", 8-5/8", 32#, HCK-55, LT&C to TD | |
| 8.75" | 14,097" | | 5-1/2" 20# HCP-110 NSCC |
| | | | |

| Days | Depth | Fl/Day | Mud Weight | Cost \$M | Remarks | Report Date | Daily Cost |
|------|---------|--------|------------|----------|--|-------------|------------|
| 0 | 130' | 0' | - | | Begin MIRU Cactus 123, | 25-Oct-11 | |
| 0 | 130' | 0' | - | | MIRU Cactus 123. Set house, generators & drawworks. String up blocks. | 26-Oct-11 | |
| 0 | 130' | 0' | - | | MIRU Cactus 123. Raise derrick, Hook up electric, weld on 20" conductor, mix spud mud. | 27-Oct-11 | |
| 1 | 1,190' | 1,060' | 8.5 | | Finish welding 20" conductor, RU flowline, mix spud mud, install mouse hole, test lines to 1500 psi (4.0 hrs), MU & RIH w/ BHA, drill cement 100' - 130' (4.0 hrs). Spud well 10/27/2011 @ 13:00 hrs. Drill and survey 130' - 1180' TD (1060'/11.0 hrs = 96.3 fph, 27k WOB, 70 SRPM, 94 MRPM, 881 GPM). Last survey .35" @ 1045'. Pump & circ sweeps, TOH (1.75 hrs). | 28-Oct-11 | |
| 2 | 1,190' | 0' | 10.0 | | LD BHA (2.0 hrs), Rig repair - Top Drive (1.0 hr), RU casers and RIH w/ 11-3/4" 42# H-40 STC casing and set @ 1190' (5.25 hrs). RU BJ Services and cement w/ 400 sx Class C + 4.0% Gel + 1.0% CaCl2 + 0.25 pps Celloflake (13.5 ppg, 1,734 yd), followed by 250 sx Class C + 2.0% CaCl2 (14.8 ppg, 1,345 yd). Bump plug w/ 1070 psi and circ 248 sx to pit (1.75 hrs), WOC and RU Scientific and run gyro (4.0 hrs). Cut conductor, casing and NU wellhead and test to 800 psi - OK (3.0 hrs). NU BOPE (5.75 hrs). | 29-Oct-11 | |
| 3 | 1,795' | 605' | 10.0 | | Finish NU BOPE and test 250 / 3000 psi - OK (10.0 hrs). Test casing to 1400 psi - OK (0.5 hr). Install wear bushing and service rig (1.0 hr), PU BHA and TIH - tag cement @ 1085' (3.25 hrs). Drill cement & FE (1.25 hrs), Drill new formation 1180' - 1795' (605'/4.25 hrs = 142.3 fph, 15k WOB, 65 RRPM, 138 MRPM, 835 GPM). Last survey 0.7" @ 1615'. Rig repair - Swivel packing (2.0 hrs). | 30-Oct-11 | |
| 4 | 3,685' | 1,890' | 10.2 | | Rig repair-WO & change swivel packing (3.75 hrs). Rotate, slide drill and survey 1795' - 3685' (1880'/14.5 hrs = 130.3 fph, 27k WOB, 65 SRPM, 123 MRPM, 742 GPM). Last survey 3522' MD, 262.4" AZM. | 31-Oct-11 | |
| 5 | 5,005' | 1,320' | 10.5 | | Slide, rotate and survey 3685' - 5005' TD (1320'/15.0 hrs = 88.0 fph, 30k WOB, 70 RRPM, 123 MRPM, 742 GPM). Survey 1.2" # 4857' (0.25 hr). Circ BU (1.0 hr), TOH and LD DC's (4.25 hrs), RU casers (2.0 hrs). | 01-Nov-11 | |
| 6 | 5,005' | 0' | 10.4 | | RU casers (2.0 hrs), RIH w/ 8-5/8" 32# J-55 / HCK-55 LTC and set @ 5005' (5.5 hrs), Circ thru casing, RD casers and WO BJ (3.0 hrs). RU BJ and cement w/ 1000 sx Class C + 2.0% SMS + 10.0% Salt + 1.0% R-3 + 0.25 pps Celloflake (12.7 ppg, 2,216 yd), followed by 200 sx Class C + 6.0% FL-62 + 0.45% CD-32 + 0.10% SMS + 0.30% R-3 (14.8 ppg, 1,333 yd). Bump plug w/ 1950 psi and circ 318 sx to surface (3.25 hrs), RD BJ, ND BOPE, set slips (1.75 hrs), WOC (4.0 hrs). Cut casing, install "B" section and test to 1700 psi - OK (2.5 hrs). NU BOPE (1.5 hrs). | 02-Nov-11 | |
| 7 | 6,230' | 1,225' | 8.3 | | Test BOPE 250 / 3000 psi - OK (4.5 hrs). Test casing to 2000 psi - OK (0.5 hr). Install wear bushing and service rig (1.0 hr), MU BHA and TIH - tag cement @ 4890" (3.5 hrs). Drill cement & FE (1.0 hr). Drill new formation 500' - 6230' (1225'/11.0 hrs = 111.3 fph, 25k WOB, 65 RRPM, 96 MRPM, 566 GPM). Last survey 0.3" @ 6035'. | 03-Nov-11 | |
| 8 | 8,005' | 1,775' | 9.0 | | Rotate and survey 6230' - 8005' (1775'/21.25 hrs = 83.5 fph, 30k WOB, 70 RRPM, 86 MRPM, 566 GPM). Last survey 0.6" @ 7752'. | 04-Nov-11 | |
| 9 | 8,930' | 825' | 9.0 | | Drill and survey 8005' - 8930' KOP (825'/14.75 hrs = 62.7 fph, 35k WOB, 70 RRPM, 102 MRPM, 603 GPM). Survey 0.6" @ 8889' (0.25 hr). Circ BU - lost 200 psi - pump softline w/o hit (1.0 hr), TOH and LD DC's (6.5 hrs). | 05-Nov-11 | |
| 10 | 9,240' | 310' | 9.1 | | Finish LD DC's and BHA (3.0 hrs). Function test BOPE (0.25 hr). PU curve assy (0.75 hr), TIH and wash to bottom (4.5 hrs). Slide and survey 8930' - 9240' (310'/13.75 hrs = 22.5 fph, 40k WOB, 140 MRPM, 501 GPM). Last survey 9176' MD, 25.8" INC, 179.60" AZM. | 06-Nov-11 | |
| 11 | 9,465' | 225' | 8.0 | | Slide and survey 9240' - 9390' (150'/6.5 hrs = 23.1 fph, 38k WOB, 140 MRPM, 501 GPM). Survey 0335' MD, 41.6" INC, 177.90" AZM. Not getting required build rates - TOH for 2.38" motor and new bil (1.75 hrs), TIH and wash to bottom (5.25 hrs). Slide, rotate and survey 9390' - 9465' (75'/4.25 hrs = 17.6 fph, 38k WOB, 158 MRPM, 566 GPM). Last survey 9399' MD, 48.30" INC, 177.70" AZM. | 07-Nov-11 | |
| 12 | 9,720' | 255' | 8.9 | | Slide, rotate and survey 9465' - 9570' (105'/5.75 hrs = 18.3 fph, 45k WOB, 158 MRPM, 566 GPM). Circ BU and TOH for lateral assy (4.5 hrs). LD curve assy and PU lateral assy (1.75 hrs), TIH and wash to bottom (5.5 hrs). Slide, rotate and survey 9570' - 9720' (150'/4.5 hrs = 33.3 fph, 20k WOB, 60 RRPM, 83 MRPM, 487 GPM). Last survey 8623' MD, 82.5" INC, 178.6" AZM. | 08-Nov-11 | |
| 13 | 11,375' | 1,655' | 9.0 | | Slide, rotate and survey 9720' - 11,375' (1655'/18.25 hrs = 90.7 fph, 25k WOB, 73 RRPM, 83 MRPM, 487 GPM). Last survey 11,278' MD, 89.7" INC, 178.10" AZM. | 09-Nov-11 | |
| 14 | 11,948' | 573' | 9.0 | | Lost 200 psi - TOH for washout (7.25 hrs), C/O motor and re-run bil (1.75 hrs), TIH and wash to bottom (7.0 hrs). Rotate, slide and survey 11,375' - 11,948' (5735'/25 hrs = 108.1 fph, 25k WOB, 70 RRPM, 83 MRPM, 487 GPM). Last survey 11,786' MD, 90.7" INC, 180.2" AZM. | 10-Nov-11 | |
| 15 | 14,080' | 2,132' | 9.0 | | Rotate, slide and survey 11,948' - 14,080' (2132'/18.25 hrs = 116.8 fph, 27k WOB, 70 RRPM, 83 MRPM, 487 GPM). Last survey 13,987' MD, 90.0" INC, 179.8" AZM. | 11-Nov-11 | |
| 16 | 14,110' | 30' | 9.2 | | Drill 14,080' - 14,110' TD (30'/0.25 hr = 120.0 fph, 30k WOB, 70 RRPM, 487 GPM). Circ BU (3.0 hrs), TOH, LD DP and BHA (14.25 hrs). RU casers and torque turn (3.0 hrs). RIH w/ 5-1/2" 20# HCP-110 NSCC casing (6.0 hrs). | 12-Nov-11 | |
| 17 | 14,110' | 0' | - | | Finish RIH w/ 5-1/2" 20# HCP-110 NSCC casing and set @ 14,087' (8.5 hrs). Circ thru casing (2.0 hrs), RU BJ Services and cement w/ 150 sx 60:40:0 Class C + 15.0 pps BA-90 + 4.0% MPA-5 + 3.0% SMS + 5.0% A-10 + 1.0% BA-10A + 0.80% ASA-301 + 2.55% R-21 + 8.0 pps LCM-1 (10.8 ppg, 3,677 yd), followed by 400 sx 50:50:10 Class H + 0.80% FL-52 + 0.30% ASA-301 + 0.50% SMS + 2.0% Salt + 0.25% R-21 + 3.0 pps LCM-1 + 0.25 pps Celloflake + 0.005 pps Static Free (11.8 ppg, 2,382 yd), followed by 900 sx 50:50:2 Class H + 0.65% FL-52 + 0.45% CD-32 + 0.10% SMS + 2.0% Salt (14.2 ppg, 1,277 yd). Bump plug w/ 3000 psi - did not circ cement (4.0 hrs). ND BOPE, cut casing and NU bg head and test to 5000 psi - OK (6.0 hrs). Release rig 11/13/11 @ 01:30 hrs. Prep to move to Caballo 23 Federal #5H. | 13-Nov-11 | |

BEFORE THE OIL CONSERVATION DIVISION

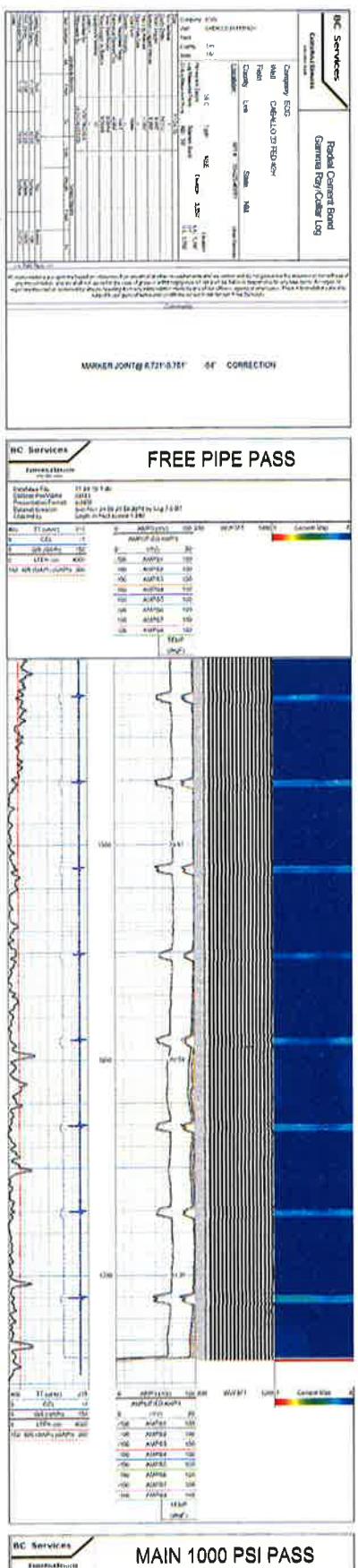
Santa Fe, New Mexico

Exhibit No. 10

Submitted by: EOG Resources, Inc.

Hearing Date: December 12, 2019

Case # 20965



BEFORE THE OIL CONSERVATION DIVISION

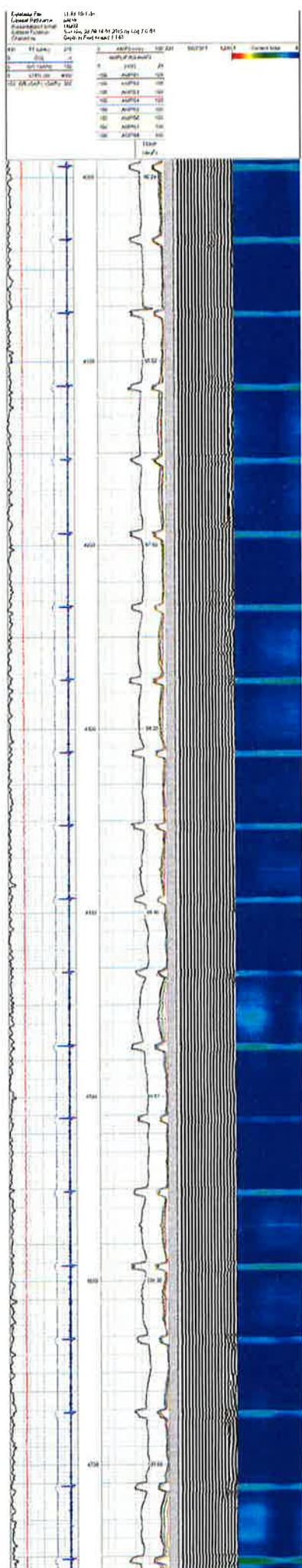
Santa Fe, New Mexico

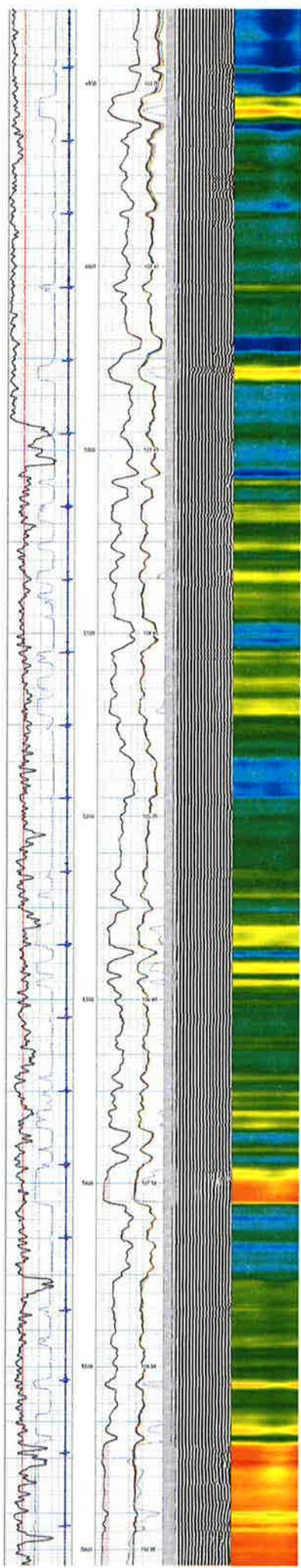
Exhibit No. 11

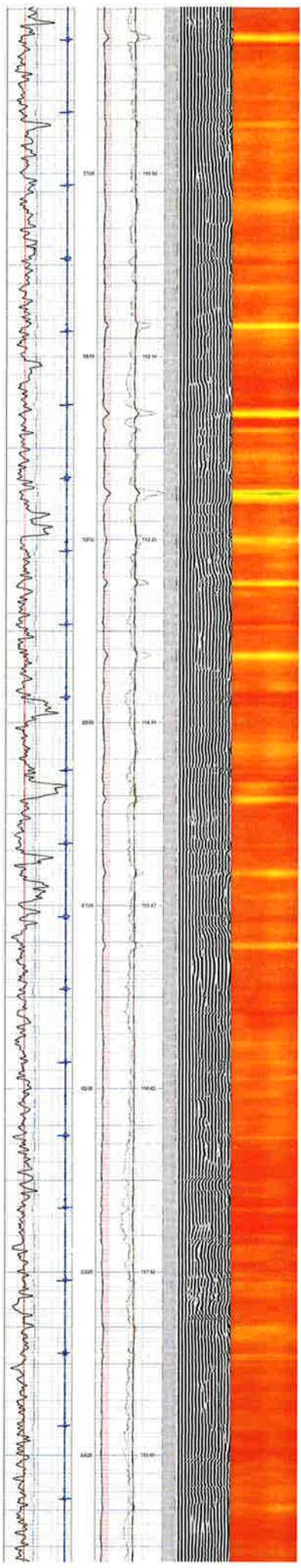
Submitted by: EOG Resources, Inc.

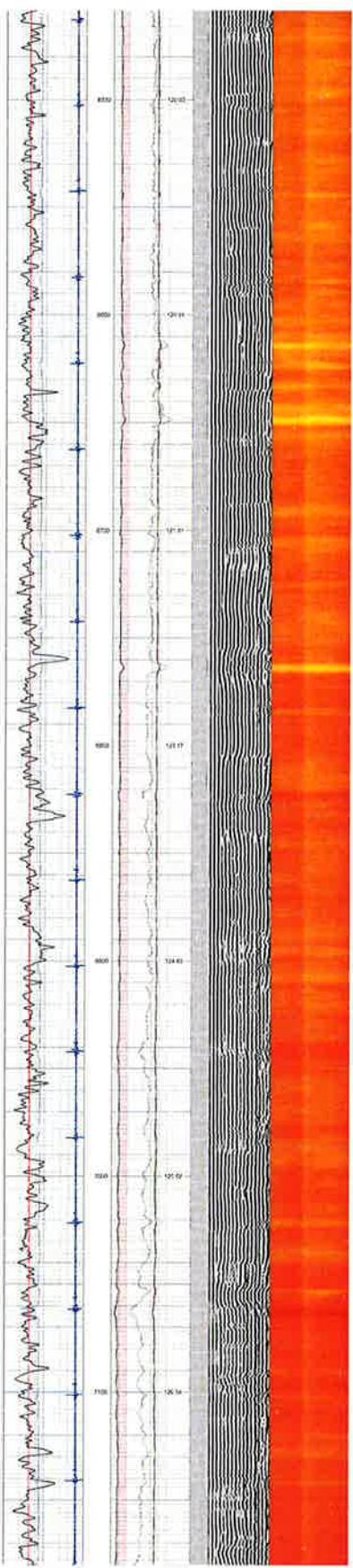
Hearing Date: December 12, 2019

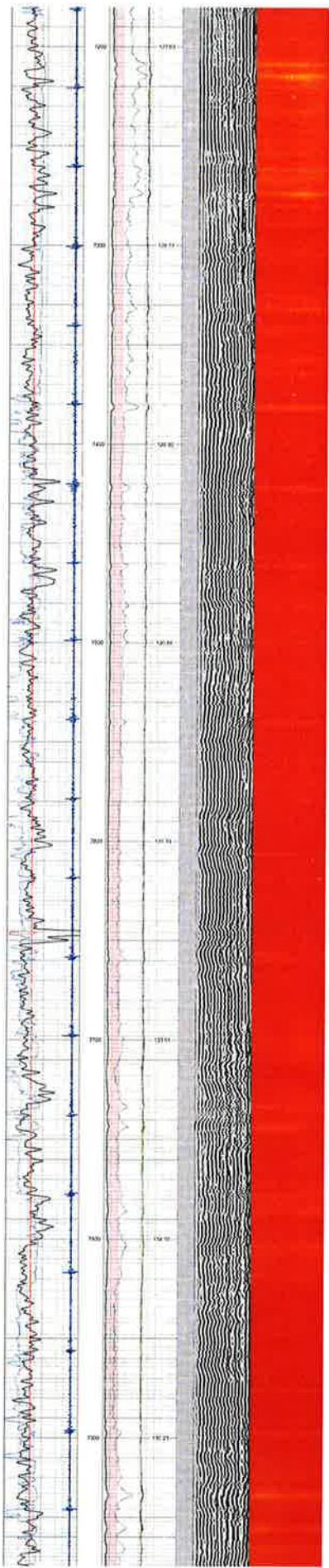
Case # 20965

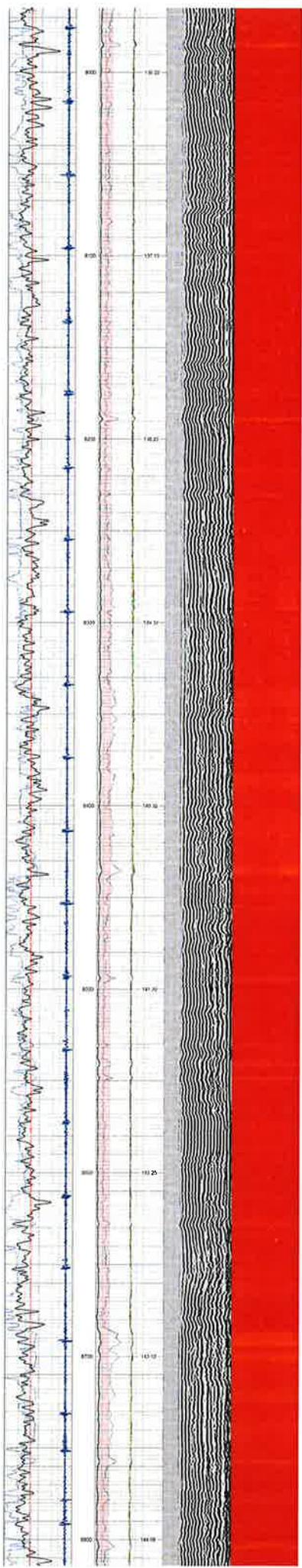


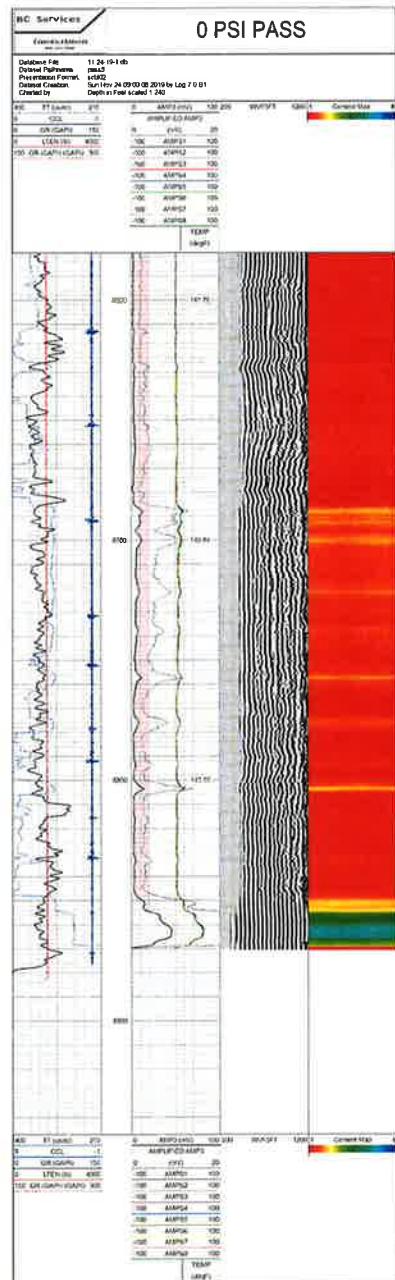
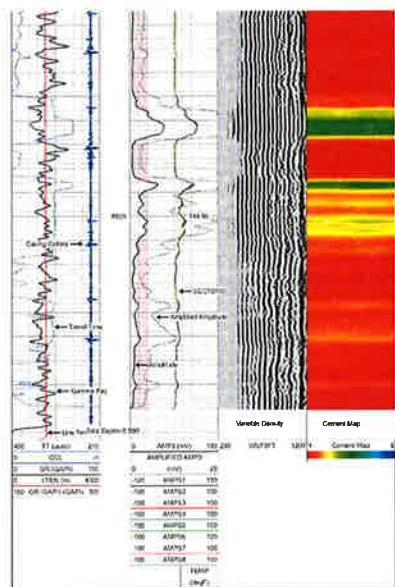


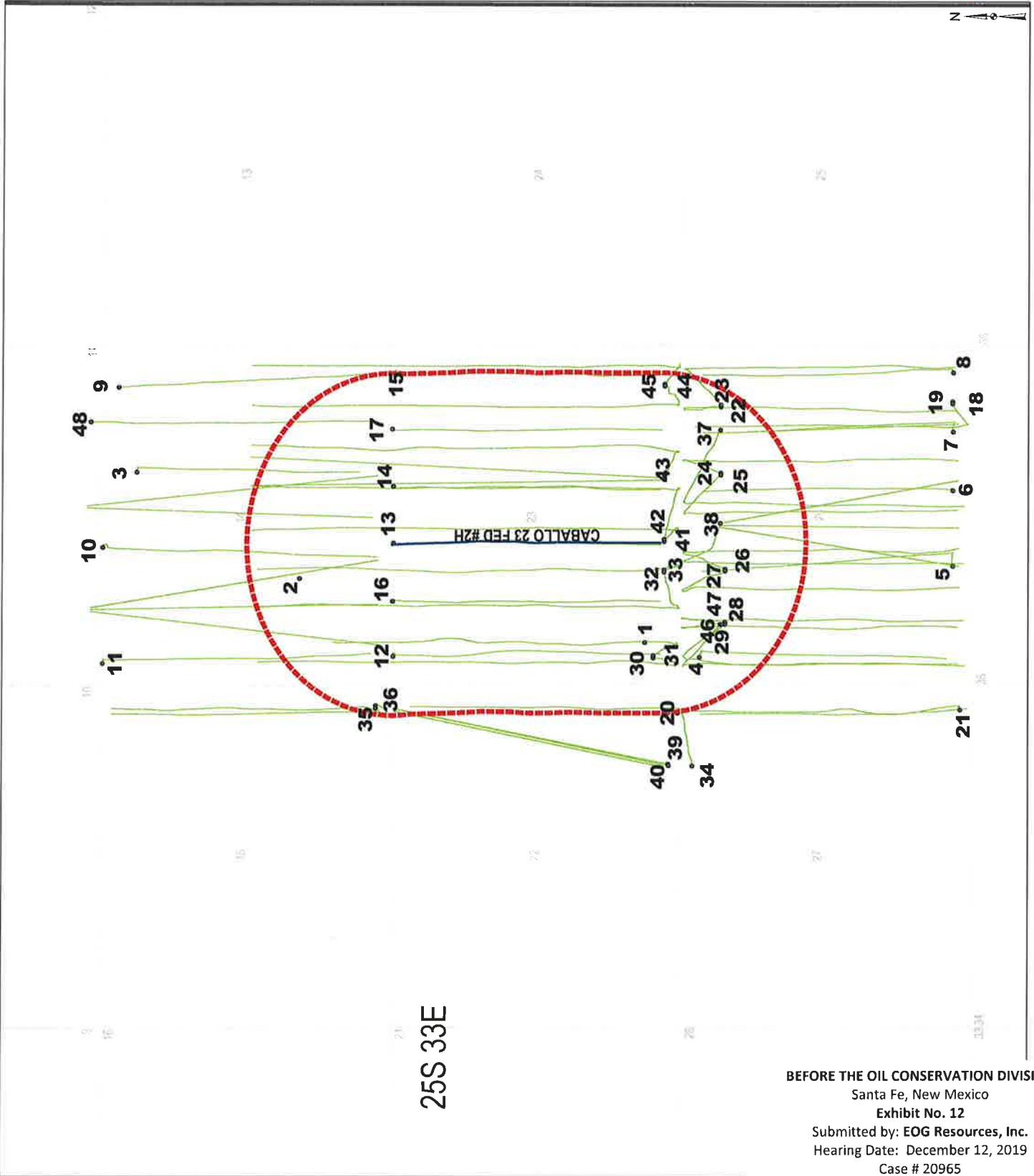
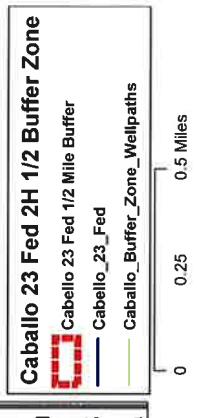












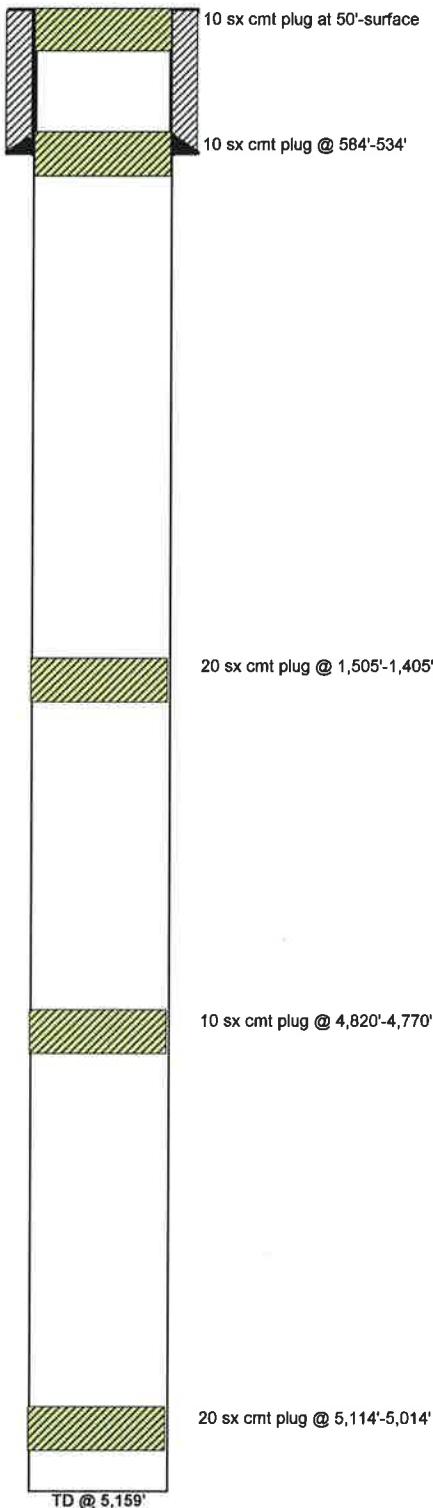
Well Name: Muse Federal 23 #1
 Location: 660' FSL & 660' FWL Sec. 23-25S-33E
 County: Lea, NM
 Lat/Long: 32.1105843,-103.5494843 NAD83
 API #: 30-025-08387
 Spud Date: 10/17/62
 Compl. Date: P&A 10/26/62

Operator: Hill & Meeker

Wellbore Diagram:

KB:
GL: 3,352'

7" 23# @ 534'
Cmrt w/ 100 sx (circ)



BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico

Exhibit No. 13

Submitted by: EOG Resources, Inc.
Hearing Date: December 12, 2019
Case # 20965

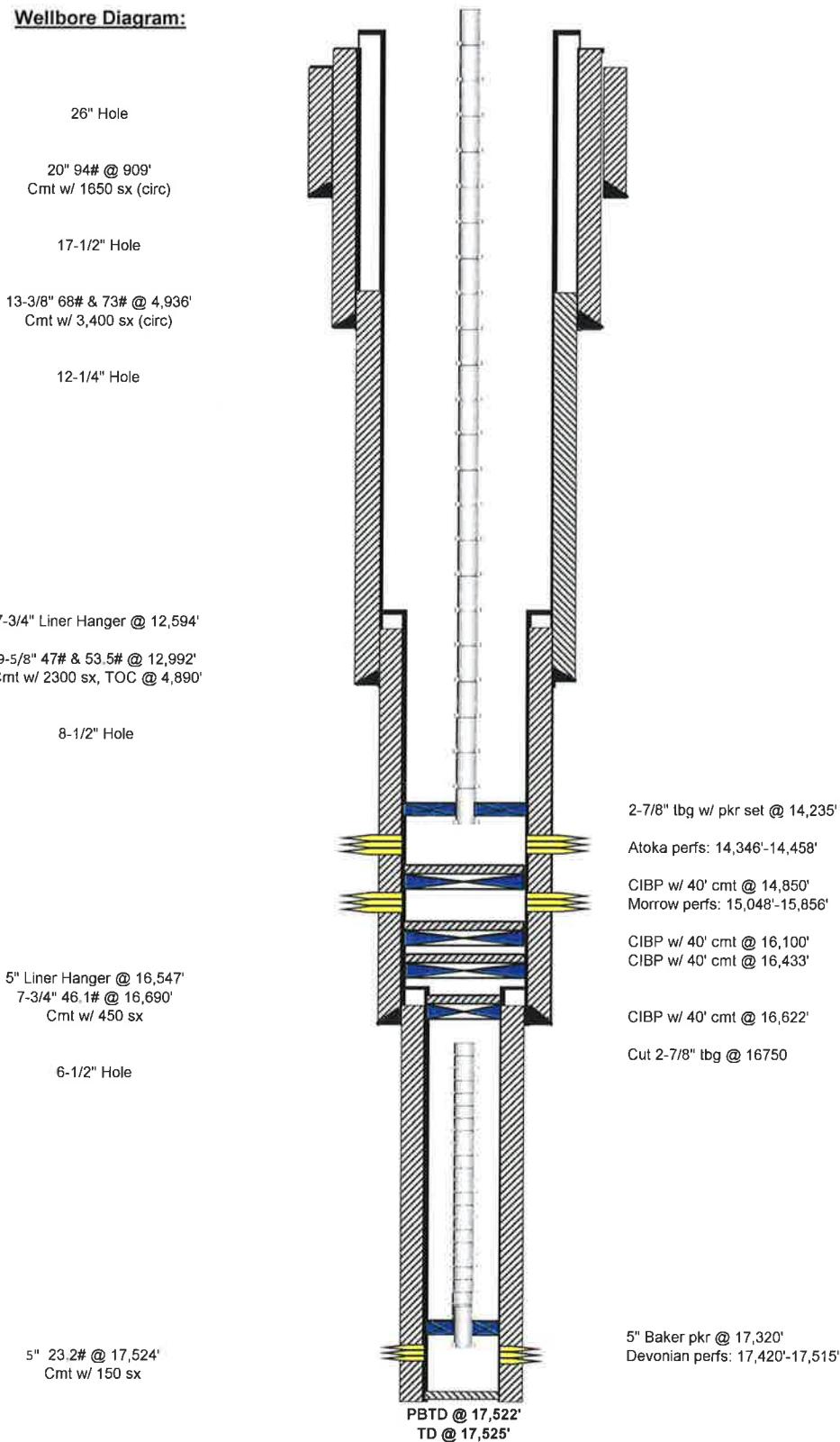
Not to Scale
By: BAL 11/25/19

Well Name: Rojo 7811 JV-P #1
Location: 660' FNL & 660' FWL Sec. 27-25S-34E
County: Lea, NM
Lat/Long: 32.1069794,-103.5665817 NAD83
API #: 30-025-26188
Spud Date: 2/9/79
Compl. Date: RC 4/28/09

Operator: BTA Oil Producers

Wellbore Diagram:

KB: 3,369'
GL: 3,339'



| Formation Tops | |
|-----------------------|--------|
| Anhydrite | 1,037 |
| Delaware | 4,939 |
| Bone Spring | 9,325 |
| Wolfcamp LM | 11,484 |
| Atoka Sand | 14,344 |
| Morrow Shale | 15,558 |
| Mississippian | 16,903 |
| Woodford | 17,255 |
| Devonian | 17,412 |

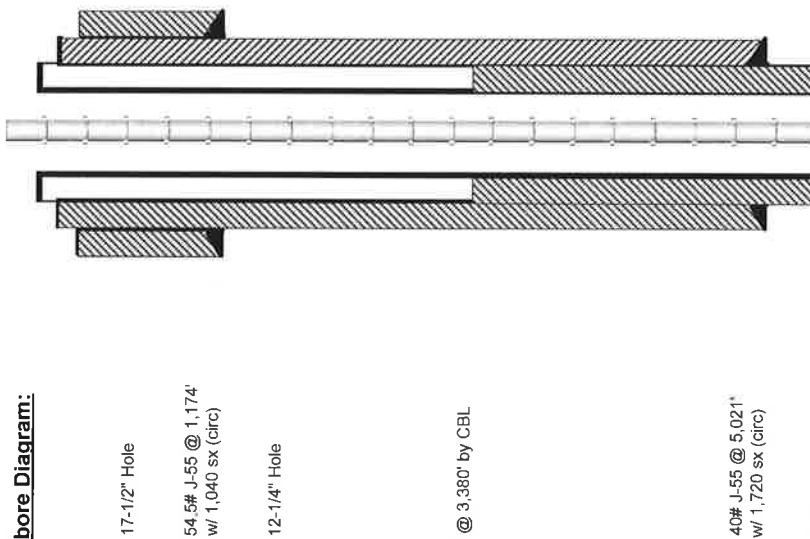
Not to Scale
By: BAL 11/25/19

Well Name: Rojo 7811 JV-P Fed Com #2H
Location: 50' FSL & 430' FEL Sec. 22-25S-33E
County: Lea, NM
Lat/Long: 32.108913685,-103.55300863
API #: 30-025-42414
Spud Date: 3/20/15
Compl. Date: 5/6/15

Operator: BTA Oil Producers

Wellbore Diagram:

| Formation Tops | |
|-----------------------|--------|
| Rustler | 1,048' |
| Top of Salt | 1,415' |
| Base of Salt | 4,732' |
| Lamar | 4,972' |
| Bell Canyon | 5,022' |
| Cherry Canyon | 6,091' |
| Brushy Canyon | 7,662' |
| Bone Spring LM | 9,180' |



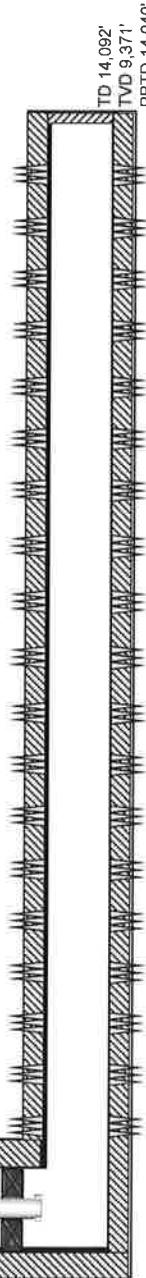
TOC @ 3,380' by CBL

9-5/8" 40# J-55 @ 5,021'
Cmt w/ 1,720 sx (circ)

8-3/4" Hole

5-1/2" 17# P-110 @ 14,092'
Cmt w/ 1,900 sx

Bone Spring perfs: 9,556'-14,000'



Not to Scale
By: BAL 11/26/19

Well Name: Rojo C 7811 JV-P #1H
 Location: 190' FSL & 380' FEL Sec. 27-25S-33E
 County: Lea, NM
 Lat/Long: 32.094789075,-103.55283553
 API #: 30-025-42458
 Spud Date: 8/30/15
 Compl. Date: 12/18/15

Operator: BTA Oil Producers

Wellbore Diagram:

KB: 3,333'
GL: 3,333'

17-1/2" Hole

13-3/8" 54.5# J-55 @ 1,175'
Cmt w/ 1,000 sx (circ)

12-1/4" Hole

9-5/8" 40# J-55 @ 5,055'
Cmt w/ 1,600 sx (circ)

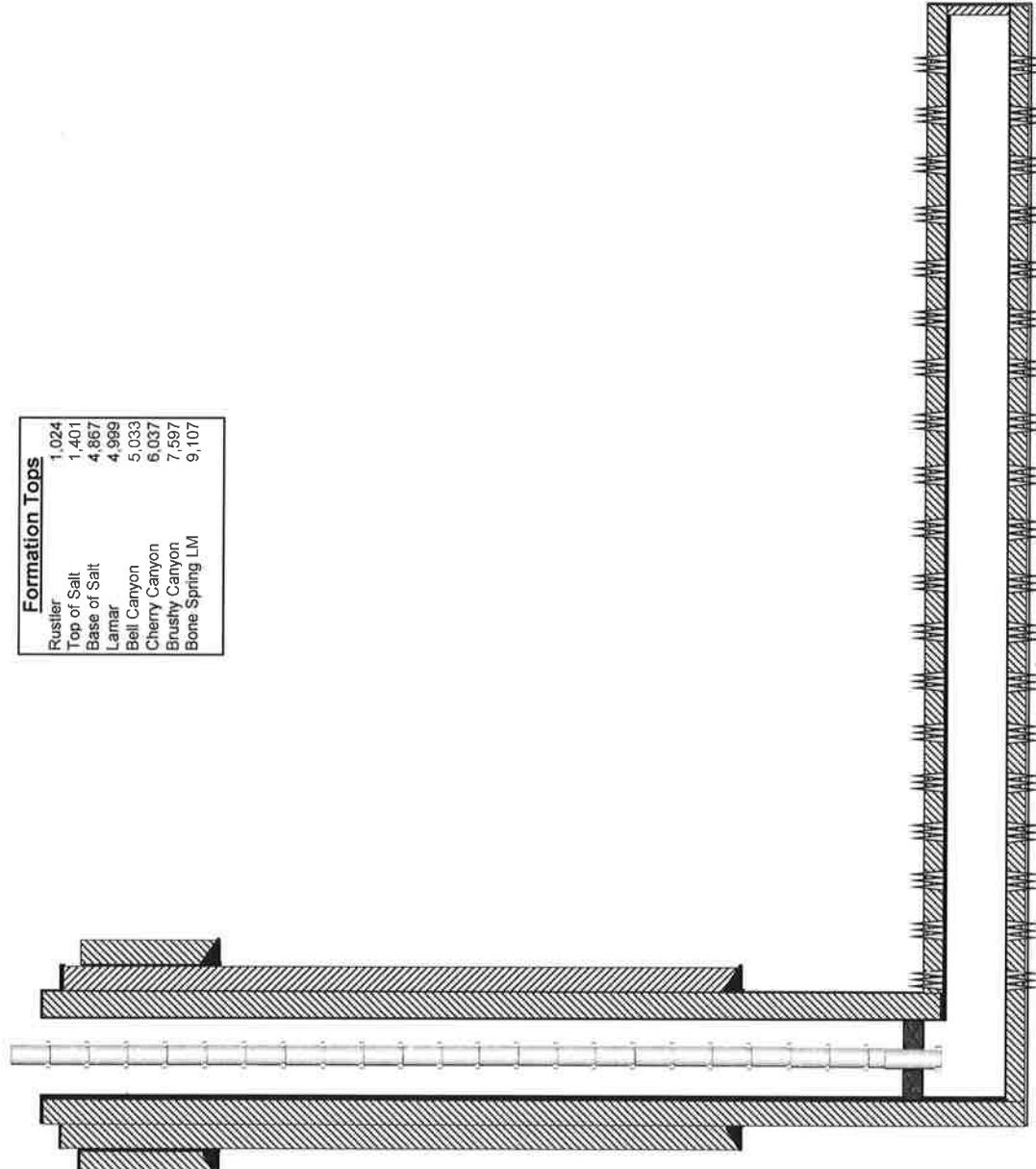
8-3/4" Hole

5-1/2" 17# P-110 @ 13,858'
Cmt w/ 2,150 sx (circ)

Bone Spring perfs: 9,528-13,770'

Formation Tops:

| | |
|----------------|-------|
| Rustler | 1,024 |
| Top of Salt | 1,401 |
| Base of Salt | 4,867 |
| Lamar | 4,989 |
| Bell Canyon | 5,033 |
| Cherry Canyon | 6,037 |
| Brushy Canyon | 7,597 |
| Bone Spring LM | 9,107 |



Not to Scale
By: BAL 11/26/19

TD 13,858'
TVD 9,376'
PBTD 13,735'

Well Name: Rojo 7811 22 Fed Com #14
Location: 220' FSL & 1250' FEL Sec. 22-25S-33E
County: Lea, NM
Lat/Long: 32.109386,-103.555695 NAD83
API #: 30-025-45309
Spud Date: 1/6/19
Compl. Date: 5/14/19

Operator: BTA Oil Producers

Wellbore Diagram:

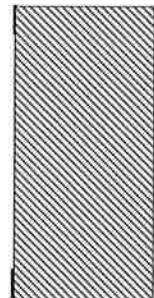
KB: 3,345
GL: 3,345

17-1/2" Hole

While drilling 17-1/2" surface hole, at 155' the 20"
conductor set at 80° washed out and fell down hole.
114 sx of cement was pumped and circulated to surface.

Formation Tops

Rustler
Top of Salt
Base of Salt
Delaware
Cherry Canyon
Brushy Canyon
Bone Spring M
1st Bone Spring
Wolfcamp



Not to Scale
By: BAL 11/26/19

Well Name: Rojo 7811 22 Fed Com #14Y
Location: 220' FSL & 1220' FEL Sec. 22-25S-33E
County: Lea, NM
Lat/Long: 32°10'33.86" N 103°55'55.98" W
API #: 30-025-45446
Spud Date: 1/6/19
Compl. Date: 5/14/19

Operator: BTA Oil Producers
KB: 3,345
GL: 3,345
17-1/2" Hole
13-3/8" 54 5# J-55 @ 1,060'
Cmt w/ 965 sx (circ)
12-1/4" Hole
9-5/8" 40# J-55 @ 4,979'
Cmt w/ 1,960 sx (circ)
8-3/4" Hole
6-1/8" Hole

Wellbore Diagram:

KB:
GL:

17-1/2" Hole

13-3/8" 54 5# J-55 @ 1,060'
Cmt w/ 965 sx (circ)

12-1/4" Hole

9-5/8" 40# J-55 @ 4,979'
Cmt w/ 1,960 sx (circ)

8-3/4" Hole

4-1/2" Liner Hanger @ 11,887'
7" 29# P-110 @ 12,593'
Cmt w/ 1,100 sx, TOC @ 1,200'

6-1/8" Hole

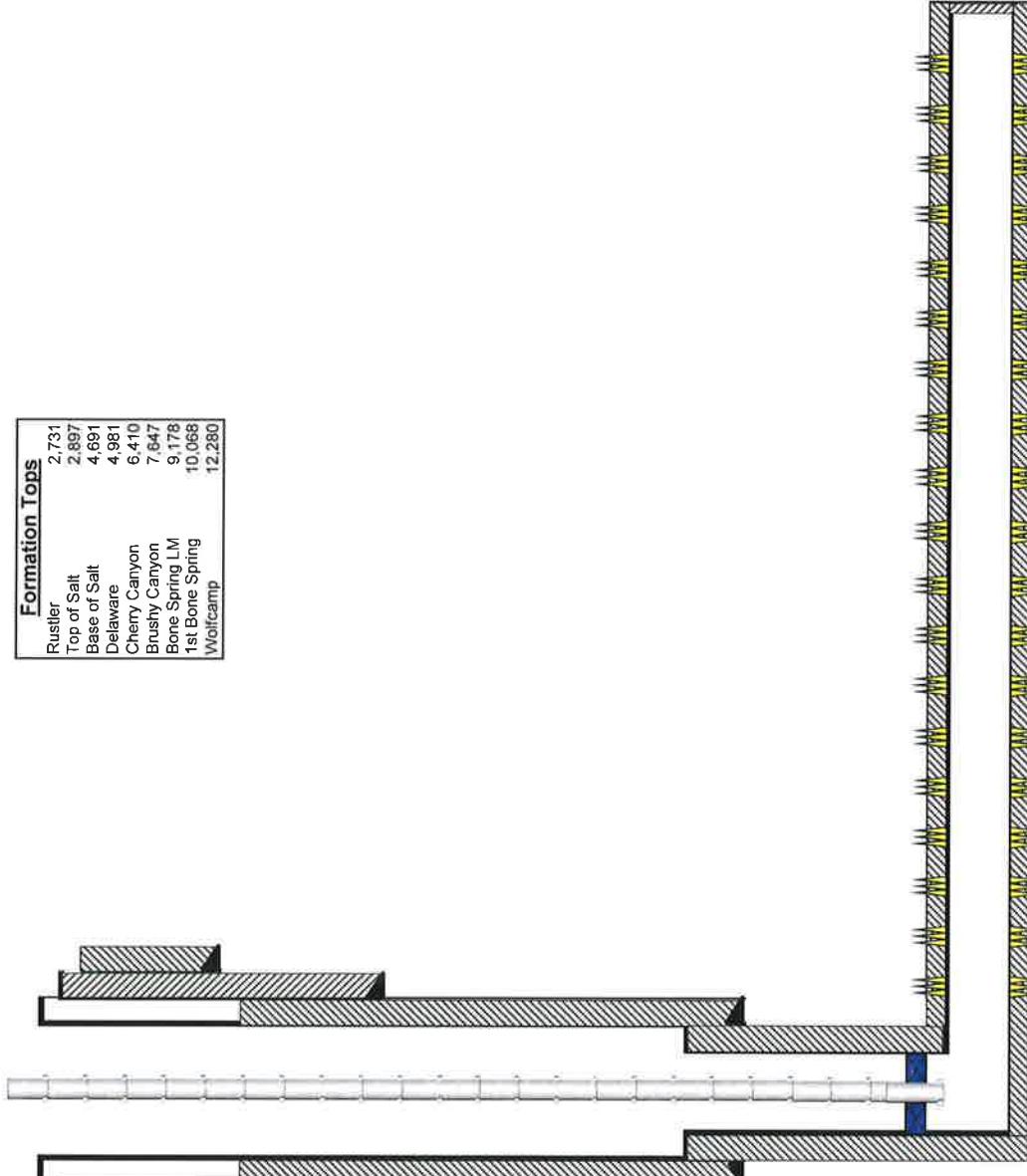
4-1/2" 13# P-110 @ 11,887' - 17,440'
Cmt w/ 405 sx (circ)

Wolfcamp perfs: 12,800'-17,155'

TD 17,445'
TVD 12,527'
PBTD 17,440'

Not to Scale
By: BAL
11/26/19

| Formation Tops | |
|-----------------|--------|
| Rustler | 2,731 |
| Top of Salt | 2,897 |
| Base of Salt | 4,691 |
| Delaware | 4,981 |
| Cherry Canyon | 6,410 |
| Brushy Canyon | 7,647 |
| Bone Spring LM | 9,178 |
| 1st Bone Spring | 10,068 |
| Wolfcamp | 12,280 |

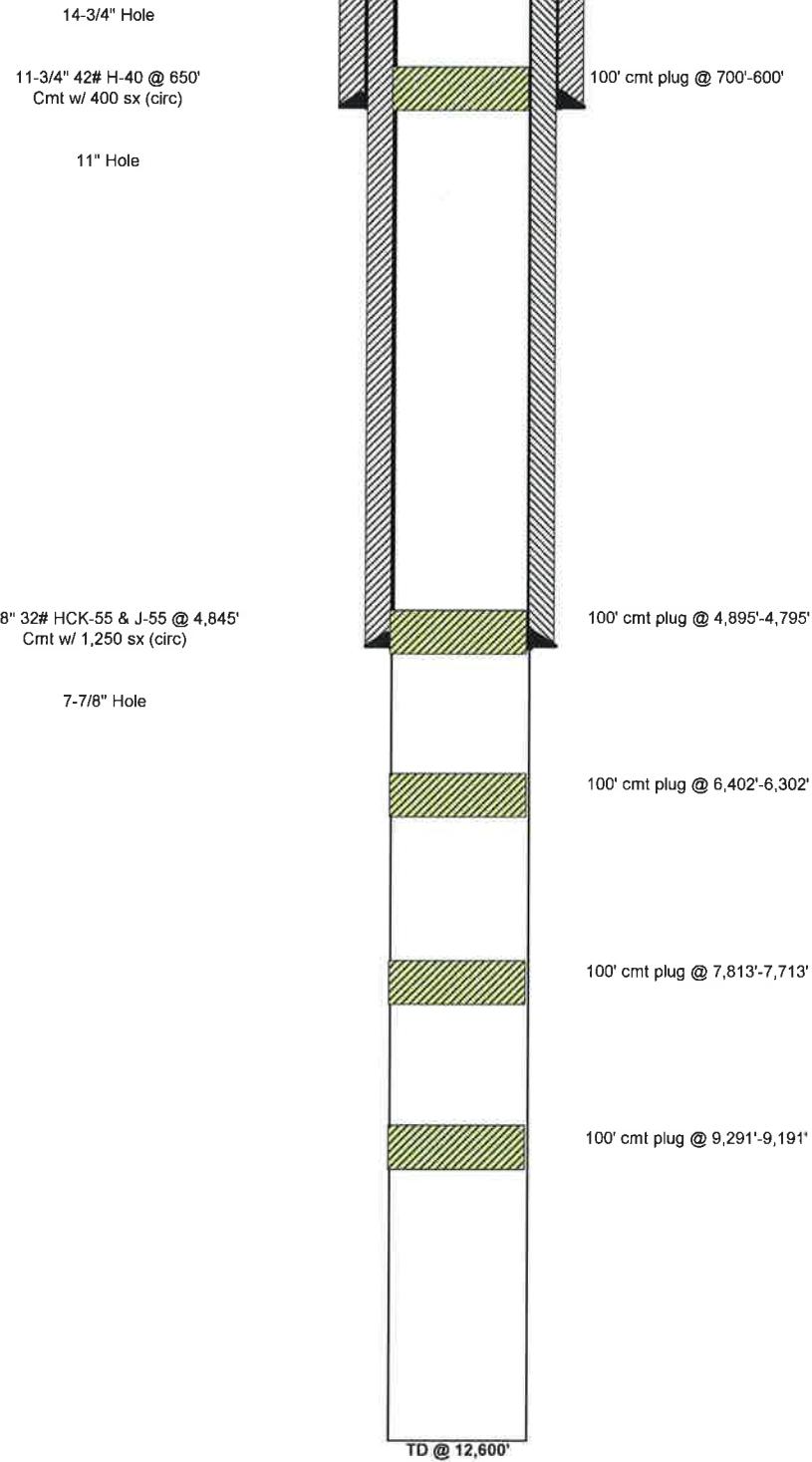


Well Name: Vaca 14 Fed #1
 Location: 1650' FSL & 1650' FWL Sec. 14-25S-33E
 County: Lea, NM
 Lat/Long: 32.1278191,-103.5462952 NAD83
 API #: 30-025-34118
 Spud Date: 9/20/97
 Compl. Date: P&A 10/6/97



Current Wellbore Diagram:

KB:
GL: 3,352'



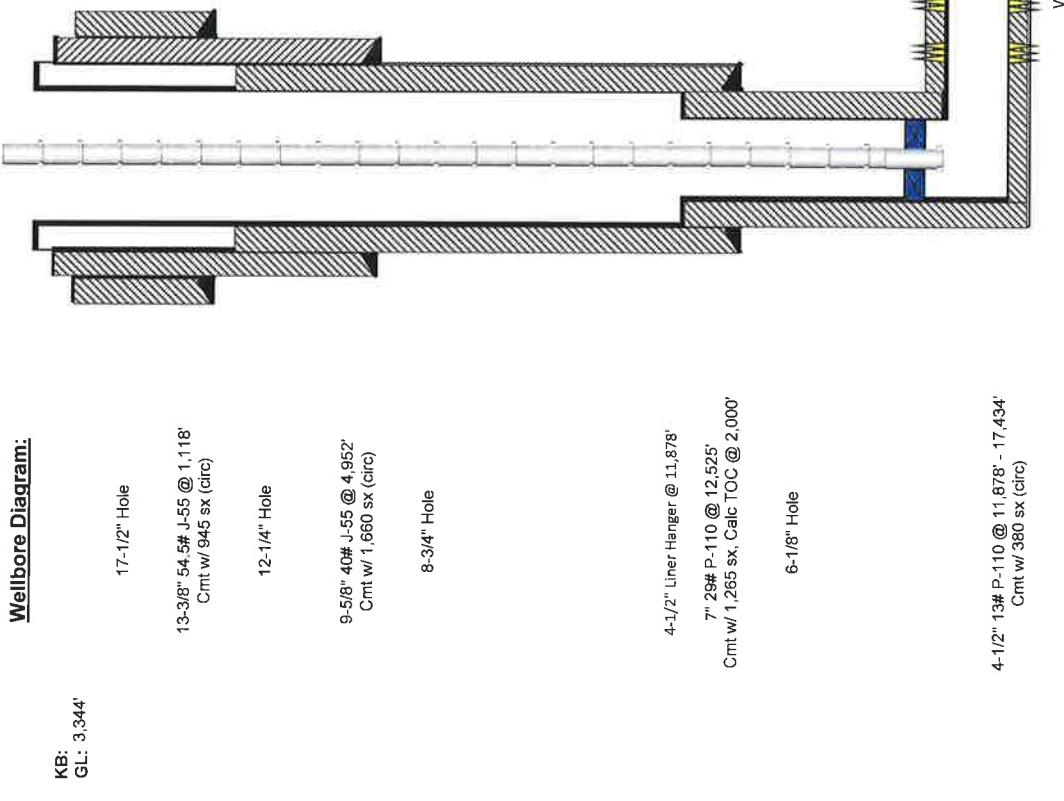
| Formation Tops | |
|----------------|--------|
| Delaware | 5,039 |
| Bone Spring | 9,218 |
| 3rd Bone Sprg | 11,896 |
| Wolfcamp | 12,316 |

Not to Scale
By: BAL 11/25/19

Well Name: Rojo 7811 27 FEE Com #10H
 Location: 220' FNL & 1250' FEL Sec. 27-25S-33E
 County: Lea, NM
 Lat/Long: 32.107872,-103.552724 NAD83
 API #: 30-025-44458
 Spud Date: 4/30/18
 Compl. Date: 9/4/18

Operator: BTA Oil Producers

Wellbore Diagram:



Formation Tops:

| | Formation Tops |
|-----------------|----------------|
| Rustler | 1,404 |
| Top of Salt | 9,792 |
| Base of Salt | |
| Delaware | |
| Canyon | 5,014 |
| Brushy Canyon | |
| Bone Spring LM | |
| 1st Bone Spring | |
| Wolfcamp | 12,299 |

TD 17,449'
TVD 12,585'
PBTD 17,434'

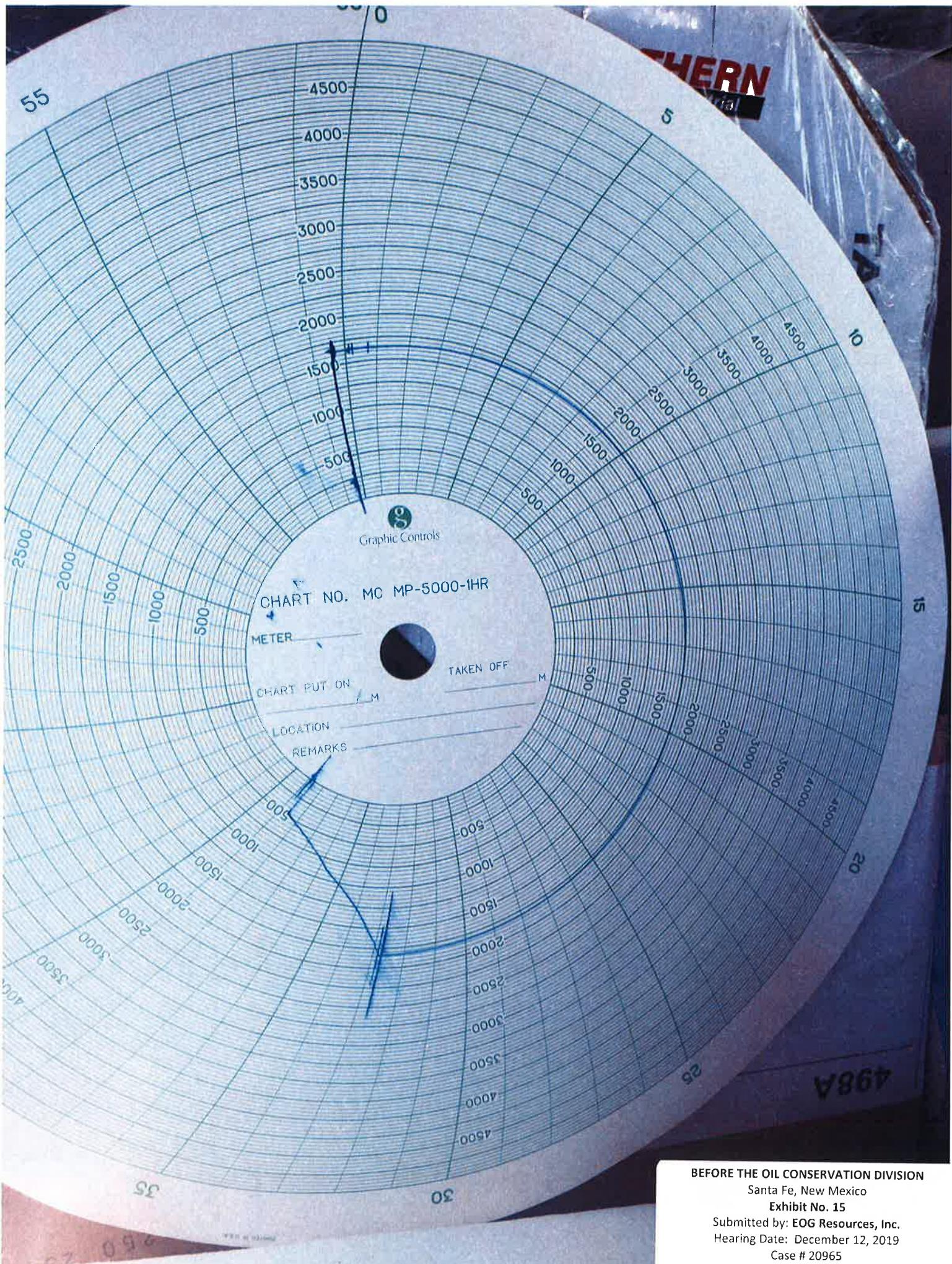
Not to Scale
By: BAL 11/26/19

| Map Legend | | Number | API Number | Operator Name | Lease Name | Well Num | Well Type | Status | FTG | N/S | FTG | E/W | Unit | Sec | Tship | Rng | Date Completion | Depth Total Driller | Depth True Vertical | Hole Size | Csg Size | Set At | SX CMT | CMT Top | MTD | DVT | Current Completion | Pool |
|------------|--------------|-------------------|--------------------------|---------------|------------|----------|-----------|--------|------|-----|------|-----|--------|-----|-----------------|---------------------|---------------------|---------------------|---------------------|-----------|----------|---------|--------|--------------|--|--|--------------------|------|
| Number | API Number | Operator Name | Lease Name | Well Num | Well Type | Status | FTG | N/S | FTG | E/W | Unit | Sec | Tship | Rng | Date Completion | Depth Total Driller | Depth True Vertical | Hole Size | Csg Size | Set At | SX CMT | CMT Top | MTD | DVT | Current Completion | Pool | | |
| 1 | 30-025-08387 | HILL & MEEKER | MUSE-FEDERAL | 1 | P | P & A | 660 | FSL | 660 | FWL | M | | 23 25S | 33E | 10/26/1962 | 5159 | 5159 ? | 7" | 534' | 150 | Surface | Circ. | N/A | N/A | N/A | | | |
| 2 | 30-025-34118 | EOG RESOURCES INC | VACA 14 FEDERAL | 1 | P | P & A | 1650 | FSL | 1650 | FWL | K | | 14 25S | 33E | 10/06/1997 | 12600 | 12600 14-3/4" | 11-3/4" | 650' | 400 | Surface | Circ. | N/A | N/A | N/A | | | |
| 3 | 30-025-39327 | EOG RESOURCES INC | VACA 14 FEDERAL | 3 | P | Active | 660 | FNL | 1980 | FEL | B | | 14 25S | 33E | 09/26/2009 | 13200 | 9486 17-1/2" | 13-3/8" | 1180' | 1017 | Surface | Circ. | Circ. | 2200 | Surface | Red Hills; Upper Bone Spring Shale [97900] | | |
| 4 | 30-025-39531 | EOG RESOURCES INC | LOMAS ROJAS STATE COM 26 | 1H | P | Active | 330 | FNL | 430 | FWL | D | | 26 25S | 33E | 05/02/2010 | 13690 | 9415 17-1/2" | 8-3/4" | 5-1/2" | 13171' | 1915 | 5250' | CBL | 9740-12890' | Red Hills; Lower Bone Spring [51020] | | | |
| 5 | 30-025-39701 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 2H | P | Active | 330 | FSL | 1850 | FWL | N | | 26 25S | 33E | 06/26/2010 | 13792 | 9419 17-1/2" | 12-1/4" | 9-5/8" | 5085' | 2075 | 4600' | Calc. | 9828'-13533' | Red Hills; Lower Bone Spring [51020] | | | |
| 6 | 30-025-39702 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 3H | P | Active | 330 | FSL | 2262 | FEL | O | | 26 25S | 33E | 07/19/2010 | 13742 | 9436 17-1/2" | 8-3/4" | 5-1/2" | 13790' | 800 | 3790' | CBL | 9736'-13650' | Red Hills; Lower Bone Spring [51020] | | | |
| 7 | 30-025-39703 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 4H | P | Active | 330 | FSL | 1350 | FEL | O | | 26 25S | 33E | 08/04/2010 | 13850 | 9442 17-1/2" | 12-1/4" | 9-5/8" | 13731' | 1975 | 4450' | CBL | 9800-13601' | Red Hills; Lower Bone Spring [51020] | | | |
| 8 | 30-025-39704 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 5H | P | Active | 330 | FSL | 430 | FEL | P | | 26 25S | 33E | 08/26/2010 | 13800 | 9444 17-1/2" | 8-3/4" | 5-1/2" | 13820' | 1950 | 4600' | Calc. | 9910-13727' | Red Hills; Lower Bone Spring [51020] | | | |
| 9 | 30-025-39892 | EOG RESOURCES INC | VACA 14 FEDERAL | 4H | P | Actice | 330 | FNL | 660 | FEL | A | | 14 25S | 33E | 08/08/2012 | 13800 | 9469 17-1/2" | 12-1/4" | 9-5/8" | 13792' | 2000 | 4500' | Circ. | 9840-13711' | Red Hills; Lower Bone Spring [51020] | | | |
| 10 | 30-025-39943 | EOG RESOURCES INC | VACA 14 FEDERAL | 6H | P | Active | 50 | FNL | 2130 | FWL | C | | 14 25S | 33E | 11/04/2012 | 14150 | 9445 17-1/2" | 8-3/4" | 5-1/2" | 13800' | 1845 | 4600' | Calc. | 9718-13750' | Red Hills; Upper Bone Spring Shale [97900] | | | |
| 11 | 30-025-39944 | EOG RESOURCES INC | VACA 14 FEDERAL COM | 5H | P | Active | 50 | FNL | 330 | FWL | D | | 14 25S | 33E | 04/10/2011 | 14092 | 9422 17-1/2" | 12-1/4" | 9-5/8" | 14083' | 2075 | 4600' | Calc. | 9517-14050' | Red Hills; Upper Bone Spring Shale [97900] | | | |
| 12 | 30-025-40050 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 1H | P | Active | 50 | FNL | 440 | FWL | D | | 23 25S | 33E | 07/17/2011 | 13985 | 9430 14-3/4" | 8-3/4" | 5-1/2" | 14092' | 1880 | 4050' | CBL | 9735-13991' | Red Hills; Lower Bone Spring [51020] | | | |
| 13 | 30-025-40051 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 2H | P | Active | 50 | FNL | 2200 | FWL | C | | 23 25S | 33E | 02/03/2012 | 14110 | 9455 14-3/4" | 11" | 5-1/2" | 13965' | 1465 | 4120' | CBL | 9718-13864' | Red Hills; Lower Bone Spring [51020] | | | |
| 14 | 30-025-40052 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 3H | P | Active | 58 | FNL | 2200 | FEL | B | | 23 25S | 33E | 02/06/2012 | 14045 | 9439 14-3/4" | 7-7/8" | 5-1/2" | 14097' | 1450 | 4050' | Calc. | 9729-14060' | Red Hills; Upper Bone Spring Shale [97900] | | | |
| 15 | 30-025-40053 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 4H | P | Active | 50 | FNL | 440 | FEL | A | | 23 25S | 33E | 11/17/2011 | 14080 | 9449 14-3/4" | 11" | 5-1/2" | 14045' | 1450 | 4700' | Calc. | 9738-14000' | Red Hills; Upper Bone Spring Shale [97900] | | | |
| 16 | 30-025-40247 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 5H | P | Active | 40 | FNL | 1295 | FWL | D | | 23 25S | 33E | 02/09/2012 | 14025 | 9437 14-3/4" | 7-7/8" | 5-1/2" | 14080' | 1435 | 4043' | Calc. | 9804-13992' | Red Hills; Upper Bone Spring Shale [97900] | | | |
| 17 | 30-025-40248 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 6H | P | Active | 20 | FNL | 1310 | FEL | A | | 23 25S | 33E | 11/12/2011 | 14123 | 9485 14-3/4" | 11" | 5-1/2" | 13987' | 1450 | 4050' | Calc. | 9771-13960' | Red Hills; Upper Bone Spring Shale [97900] | | | |
| 18 | 30-025-42156 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 501H | P | Active | 330 | FSL | 875 | FEL | P | | 26 25S | 33E | 05/21/2016 | 15582 | 10849 17-1/2" | 7-7/8" | 5-1/2" | 14113' | 1450 | 4050' | Calc. | 9862-14082' | Red Hills; Lower Bone Spring [51020] | | | |

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. 14
Submitted by: EOG Resources, Inc.
Hearing Date: December 12, 2019
Case # 20965

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|--------------|-----------------------|----------------------------|------|---|--------|---------|----------|---|--------|-----|------------|-------|-------|---------|--------|-------------|--------|--------------|-------|--------------|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 30-025-42157 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 502H | P | Active | 330 FSL | 905 FEL | P | 26 25S | 33E | 05/21/2016 | 15585 | 10843 | 17-1/2" | 8-3/4" | 5-1/2" | 15582' | 1925 1958' | CBL | 10983-15444' | Red Hills; Lower Bone Spring [51020] | | | |
| 20 | 30-025-42414 | BTA OIL PRODUCERS LLC | ROJO 7811 JV-P FEDERAL COM | 2H | P | Active | 50 FSL | 430 FEL | P | 22 25S | 33E | 05/06/2015 | 14092 | 9371 | 17-1/2" | 8-3/4" | 5-1/2" | 15585' | 1925 2505' | CBL | 11021-15482' | Red Hills; Lower Bone Spring [51020] | | | |
| 21 | 30-025-42458 | BTA OIL PRODUCERS LLC | ROJO C 7811 JV-P | 1H | P | Active | 190 FSL | 380 FEL | P | 27 25S | 33E | 12/18/2015 | 13858 | 9360 | 17-1/2" | 8-3/4" | 5-1/2" | 14092' | 1900 3380' | CBL | 9556-14000' | Red Hills; Upper Bone Spring Shale [97900] | | | |
| 22 | 30-025-42567 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 702H | P | Active | 722 FNL | 957 FEL | A | 26 25S | 33E | 03/16/2016 | 17275 | 12530 | 14-3/4" | 8-3/4" | 5-1/2" | 13858' | 2150 Surface | Circ. | 9528-13770' | Red Hills; Upper Bone Spring Shale [97900] | | | |
| 23 | 30-025-42568 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 701H | P | Active | 721 FNL | 927 FEL | A | 26 25S | 33E | 04/11/2016 | 17218 | 12473 | 14-3/4" | 6-3/4" | 5-1/2" | 17275' | 725 8034' | Calc. | 12767-17160' | Bobcat Draw; Upper Wolfcamp [98094] | | | |
| 24 | 30-025-42970 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 703H | P | Active | 721 FNL | 1985 FEL | B | 26 25S | 33E | 03/16/2016 | 17336 | 12447 | 14-3/4" | 6-3/4" | 5-1/2" & 5" | 17218' | 715 8128' | Calc. | 12676-17072' | Bobcat Draw; Upper Wolfcamp [98094] | | | |
| 25 | 30-025-42971 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 704H | P | Active | 721 FNL | 2015 FEL | B | 26 25S | 33E | 03/15/2016 | 17355 | 12493 | 14-3/4" | 6-3/4" | 5-1/2" & 5" | 17336' | 872 7161' | Calc. | 12738-17212' | Bobcat Draw; Upper Wolfcamp [98094] | | | |
| 26 | 30-025-43218 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 705H | P | Active | 807 FNL | 1806 FWL | C | 26 25S | 33E | 10/23/2016 | 17480 | 12536 | 14-3/4" | 6-3/4" | 5-1/2" | 17345' | 651 5750' | CBL | 12833-17227' | Bobcat Draw; Upper Wolfcamp [98094] | | | |
| 27 | 30-025-43219 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 706H | P | Active | 807 FNL | 1776 FWL | C | 26 25S | 33E | 10/23/2016 | 17423 | 12417 | 14-3/4" | 6-3/4" | 5-1/2" | 17471' | 995 Surface | Circ. | 12754-17345' | Bobcat Draw; Upper Wolfcamp [98094] | | | |
| 28 | 30-025-43220 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 707H | P | Active | 806 FNL | 979 FWL | D | 26 25S | 33E | 11/20/2016 | 17421 | 12504 | 14-3/4" | 6-3/4" | 5-1/2" | 16921' | 628 11260' | CBL | 12749-16795' | Bobcat Draw; Upper Wolfcamp [98094] | | | |
| 29 | 30-025-43221 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 708H | P | Active | 806 FNL | 949 FWL | D | 26 25S | 33E | 11/20/2016 | 17264 | 12434 | 14-3/4" | 6-3/4" | 5-1/2" | 17421' | 631 11293' | CBL | 12722-17313' | Bobcat Draw; Upper Wolfcamp [98094] | | | |
| 30 | 30-025-43875 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 701H | P | Active | 494 FSL | 426 FWL | M | 23 25S | 33E | 08/19/2018 | 19904 | 12405 | 17-1/2" | 6-3/4" | 5-1/2" | 17254' | 710 11306' | CBL | 12824-17142' | Bobcat Draw; Upper Wolfcamp [98094] | | | |
| 31 | 30-025-43876 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 702H | P | Active | 494 FSL | 461 FWL | M | 23 25S | 33E | 08/19/2018 | 18398 | 12340 | 17-1/2" | 6-3/4" | 5-1/2" | 19904' | 835 7476' | CBL | 12612-19809' | Bobcat Draw; Upper Wolfcamp [98094] | | | |
| 32 | 30-025-43877 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 703H | P | Active | 300 FSL | 1755 FWL | N | 23 25S | 33E | 08/14/2018 | 19939 | 12422 | 17-1/2" | 6-3/4" | 5-1/2" | 18388' | 825 7476' | CBL | 13656-18389' | Bobcat Draw; Upper Wolfcamp [98094] | | | |
| 33 | 30-025-43878 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 704H | P | Active | 300 FSL | 1790 FWL | N | 23 25S | 33E | 08/09/2018 | 19757 | 12341 | 17-1/2" | 6-3/4" | 5-1/2" | 19929' | 785 5710' | CBL | 12668-19841' | Bobcat Draw; Upper Wolfcamp [98094] | | | |
| 34 | 30-025-44458 | BTA OIL PRODUCERS LLC | ROJO 7811 27 FEE COM | 010H | P | Active | 220 FNL | 1250 FEL | A | 27 25S | 33E | 09/04/2018 | 17449 | 12524 | 17-1/2" | 6-3/4" | 5-1/2" | 19747' | 755 6300' | CBL | 12660-19648' | Bobcat Draw; Upper Wolfcamp [98094] | | | |
| 35 | 30-025-44536 | EOG RESOURCES INC | STREETCAR 15 FEDERAL | 501H | P | Active | 249 FSL | 358 FEL | P | 15 25S | 33E | 08/14/2018 | 15610 | 10819 | 17-1/2" | 8-3/4" | 7" | 12525' | 1265 Surface | Circ. | 12780-17155' | Bobcat Draw; Upper Wolfcamp [98094] | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|----|--------------|-----------------------|--------------------------|------|---|--------|---------|----------|---|--------|-----|------------|-------|---------|---------|---------|---------|-------------|--------------|--------------|--|--------------------------------------|--|
| | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | 30-025-44537 | EOG RESOURCES INC | STREETCAR 15 FEDERAL | 701H | P | Active | 249 FSL | 323 FEL | P | 15 25S | 33E | 08/14/2018 | 17242 | 12404 | 17-1/2" | 8-3/4" | 5-1/2" | 15590' | 1980 4840' | CBL | 10910-15581' | Draper Mill; Bone Spring [96392] | |
| | | | | | | | | | | | | | | | | | 12-1/4" | 9-5/8" | 4948' | 1620 Surface | Circ. | | |
| | | | | | | | | | | | | | | | | | 13-3/8" | 1215' | 1260 Surface | Circ. | | | |
| | | | | | | | | | | | | | | | | | 12-1/4" | 9-5/8" | 4943' | 1620 Surface | Circ. | | |
| | | | | | | | | | | | | | | | | | 8-3/4" | 7-5/8" | 11668' | 515 2950' | Calc. | | |
| | | | | | | | | | | | | | | | | | | | | | WC-025 G-09 S253309P; Upper Wolfcamp [98180] | | |
| 37 | 30-025-45287 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 503H | P | Active | 713 FNL | 1328 FEL | 8 | 26 25S | 33E | 11/23/2018 | 15830 | 10835 | 17-1/2" | 6-3/4" | 5-1/2" | 17223' | 540 8480' | CBL | 12521-17200' | Red Hills; Lower Bone Spring [51020] | |
| | | | | | | | | | | | | | | | | | 12-1/4" | 9-5/8" | 5060' | 1115 Surface | Circ. | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | 30-025-45288 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 504H | P | Active | 714 FNL | 2518 FWL | C | 26 25S | 33E | 11/24/2018 | 15768 | 10849 | 17-1/2" | 8-3/4" | 5-1/2" | 15810' | 1982 4400' | CBL | 11170-15786' | Red Hills; Lower Bone Spring [51020] | |
| | | | | | | | | | | | | | | | | | 13-3/8" | 1174' | 1125 Surface | Circ. | | | |
| | | | | | | | | | | | | | | | | | 12-1/4" | 9-5/8" | 4980' | 1420 Surface | Circ. | | |
| 39 | 30-025-45309 | BTA OIL PRODUCERS LLC | ROJO 7811 22 FEDERAL COM | 014H | P | P & A | 220 FSL | 1250 FEL | P | 22 25S | 33E | N/A | 155 | 155 N/A | 5-1/2" | 8-3/4" | 15753' | 2325 4400' | CBL | 11100-15731' | Bobcat Draw; Upper Wolfcamp [98094] | | |
| 40 | 30-025-45446 | BTA OIL PRODUCERS LLC | ROJO 7811 22 FEDERAL COM | 014Y | P | Active | 220 FSL | 1220 FEL | P | 22 25S | 33E | 05/15/2019 | 17455 | 12527 | 17-1/2" | 13-3/8" | 1060' | 965 Surface | N/A | Circ. | | | |
| | | | | | | | | | | | | | | | | | 12-1/4" | 9-5/8" | 4979' | 1690 Surface | Circ. | | |
| 41 | 30-025-45584 | EOG RESOURCES INC | CABALLO 23 FED | 705H | P | Active | 300 FSL | 2231 FWL | N | 23 25S | 33E | 05/11/2019 | 19970 | 12454 | 12-1/4" | 8-3/4" | 7" | 12593' | 1100 1200' | Calc. | 12800-17155' | Bobcat Draw; Upper Wolfcamp [98094] | |
| | | | | | | | | | | | | | | | | | 9-5/8" | 1210' | 660 Surface | Circ. | | | |
| | | | | | | | | | | | | | | | | | 8-3/4" | 7-5/8" | 11728' | 1515 29' | Echo | | |
| 42 | 30-025-45585 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 706H | P | Active | 300 FSL | 2264 FWL | N | 23 25S | 33E | 05/11/2019 | 20010 | 12436 | 12-1/4" | 6-3/4" | 5-1/2" | 19950' | 825 7120' | CBL | 12720-19933' | Bobcat Draw; Upper Wolfcamp [98094] | |
| | | | | | | | | | | | | | | | | | 9-5/8" | 1210' | 660 Surface | Circ. | | | |
| | | | | | | | | | | | | | | | | | 8-3/4" | 7-5/8" | 11777' | 1752 Surface | Circ. | | |
| 43 | 30-025-45588 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 709H | P | Active | 300 FSL | 2032 FEL | O | 23 25S | 33E | 05/09/2019 | 20046 | 12450 | 12-1/4" | 6-3/4" | 5-1/2" | 19988' | 825 5720' | CBL | 12722-19971' | Bobcat Draw; Upper Wolfcamp [98094] | |
| | | | | | | | | | | | | | | | | | 9-5/8" | 1209' | 690 Surface | Circ. | | | |
| | | | | | | | | | | | | | | | | | 8-3/4" | 7-5/8" | 11773' | 1688 Surface | Circ. | | |
| 44 | 30-025-45589 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 710H | P | Active | 300 FSL | 639 FEL | P | 23 25S | 33E | 05/08/2019 | 19995 | 12490 | 12-1/4" | 6-3/4" | 5-1/2" | 20031' | 760 4980' | CBL | 12611-20015' | Bobcat Draw; Upper Wolfcamp [98094] | |
| | | | | | | | | | | | | | | | | | 9-5/8" | 1254' | 690 Surface | Circ. | | | |
| | | | | | | | | | | | | | | | | | 8-3/4" | 7-5/8" | 11708' | 1820 Surface | Circ. | | |
| 45 | 30-025-45623 | EOG RESOURCES INC | CABALLO 23 FEDERAL | 711H | P | Active | 300 FSL | 606 FEL | P | 23 25S | 33E | 05/08/2019 | 20014 | 12481 | 12-1/4" | 6-3/4" | 5-1/2" | 19980' | 825 5368' | CBL | 12810-19963' | Bobcat Draw; Upper Wolfcamp [98094] | |
| | | | | | | | | | | | | | | | | | 9-5/8" | 1250' | 690 Surface | Circ. | | | |
| | | | | | | | | | | | | | | | | | 8-3/4" | 7-5/8" | 11784' | 1707 69' | Echo | | |
| 46 | 30-025-45755 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 505H | P | Active | 720 FNL | 950 FWL | D | 26 25S | 33E | 08/01/2019 | 15717 | 10827 | 17-1/2" | 6-3/4" | 5-1/2" | 19993' | 825 5050' | CBL | 12840-19976' | Bobcat Draw; Upper Wolfcamp [98094] | |
| | | | | | | | | | | | | | | | | | 13-3/8" | 1195' | 1030 Surface | Circ. | | | |
| | | | | | | | | | | | | | | | | | 9-5/8" | 4957' | 1327 Surface | Circ. | | | |
| 47 | 30-025-45756 | EOG RESOURCES INC | LOMAS ROJAS 26 STATE COM | 506H | P | Active | 753 FNL | 950 FWL | D | 26 25S | 33E | 08/01/2019 | 15673 | 10827 | 17-1/2" | 8-3/4" | 5-1/2" | 15702' | 2215 3212' | CBL | 11100-15686' | Red Hills; Lower Bone Spring [51020] | |
| | | | | | | | | | | | | | | | | | 13-3/8" | 1194' | 1025 Surface | Circ. | | | |
| | | | | | | | | | | | | | | | | | 12-1/4" | 4965' | 1325 Surface | Circ. | | | |
| 48 | 30-025-41523 | EOG RESOURCES INC | VACA 11 FEDERAL | 2H | P | Active | 170 FSL | 1200 FWL | P | 11 25S | 33E | 05/30/2014 | 15675 | 10710 | 17-1/2" | 8-3/4" | 5-1/2" | 15697' | 1820 3862' | CBL | 11075-15644' | Red Hills; Lower Bone Spring [51020] | |
| | | | | | | | | | | | | | | | | | 13-3/8" | 1236' | 825 Surface | Circ. | | | |
| | | | | | | | | | | | | | | | | | 12-1/4" | 5018' | 1350 Surface | Circ. | | | |
| | | | | | | | | | | | | | | | | | 9-5/8" | 15675' | 2230 2700' | CBL | 11080-15410' | Red Hills; Lower Bone Spring [51020] | |



BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Exhibit No. 15

Submitted by: EOG Resources, Inc.

Hearing Date: December 12, 2019

Case # 20965



| | | |
|-------------------|-------------------|-----------------------|
| 2607G | 67453466 | Caballo LGL Discharge |
| Sample Point Code | Sample Point Name | Sample Point Location |

| | | | |
|---------------------|-----------------|--------------------|--|
| Laboratory Services | 2019024978 | 1819 | R Poole - Spot |
| Source Laboratory | Lab File No | Container Identity | Sampler |
| USA | USA | USA | Default |
| District | Area Name | Field Name | Facility Name |
| Nov 5, 2019 10:50 | | Nov 18, 2019 09:11 | Nov 18, 2019 |
| Date Sampled | Date Effective | Date Received | Date Reported |
| 37.00 | Torrance | 1375 @ 132 | |
| Ambient Temp (°F) | Flow Rate (Mcf) | Analyst | Press PSI @ Temp °F Source Conditions |

| | |
|--------------------|------------------------|
| EOG Resources Inc. | H2O=4 |
| Operator | Lab Source Description |

| Component | Mol % | GPM |
|--------------------|-----------------|---------------|
| H2S (H2S) | 0.0000 | |
| Nitrogen (N2) | 1.2450 | |
| CO2 (CO2) | 0.2820 | |
| Methane (C1) | 73.1200 | |
| Ethane (C2) | 13.3450 | 3.5680 |
| Propane (C3) | 7.3150 | 2.0150 |
| I-Butane (IC4) | 0.9120 | 0.2980 |
| N-Butane (NC4) | 2.2570 | 0.7110 |
| I-Pentane (IC5) | 0.4440 | 0.1620 |
| N-Pentane (NC5) | 0.5010 | 0.1820 |
| Hexanes Plus (C6+) | 0.5790 | 0.2510 |
| TOTAL | 100.0000 | 7.1870 |

| Gross Heating Values (Real, BTU/ft³) | | | |
|---|------------------------|----------------------|-----------|
| 14.696 PSI @ 60.00 °F | | 14.73 PSI @ 60.00 °F | |
| Dry | Saturated | Dry | Saturated |
| 1,334.3 | 1,312.4 | 1,337.4 | 1,315.4 |
| Calculated Total Sample Properties | | | |
| GPA2145-16 *Calculated at Contract Conditions | | | |
| Relative Density Real | Relative Density Ideal | | |
| 0.7800 | 0.7770 | | |
| Molecular Weight | 22.5047 | | |
| C6+ Group Properties | | | |
| Assumed Composition | | | |
| C6 - 60.000% | C7 - 30.000% | C8 - 10.000% | |
| Field H2S | | | |
| 1 PPM | | | |

PROTREND STATUS:
Passed By Validator on Nov 19, 2019 **DATA SOURCE:**
Imported

PASSED BY VALIDATOR REASON:
Close enough to be considered reasonable.

VALIDATOR:
Dustin Armstrong

VALIDATOR COMMENTS:
OK

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. 16
Submitted by: EOG Resources, Inc.
Hearing Date: December 12, 2019
Case # 20965

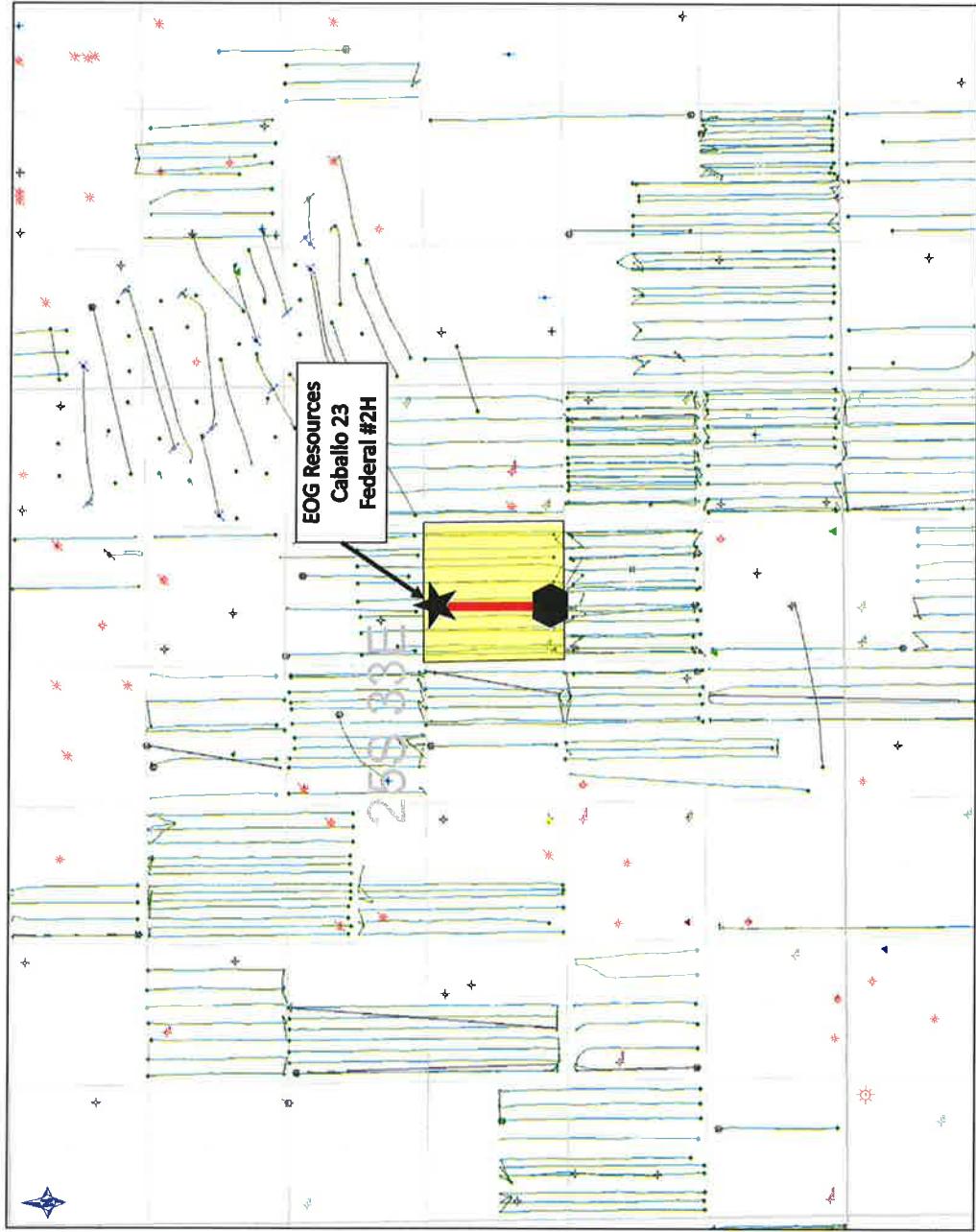
Caballo Area Lease Map

Map Legend

EOG Resources --
Horizontal Well Location
(Caballo 23 Federal #2H)



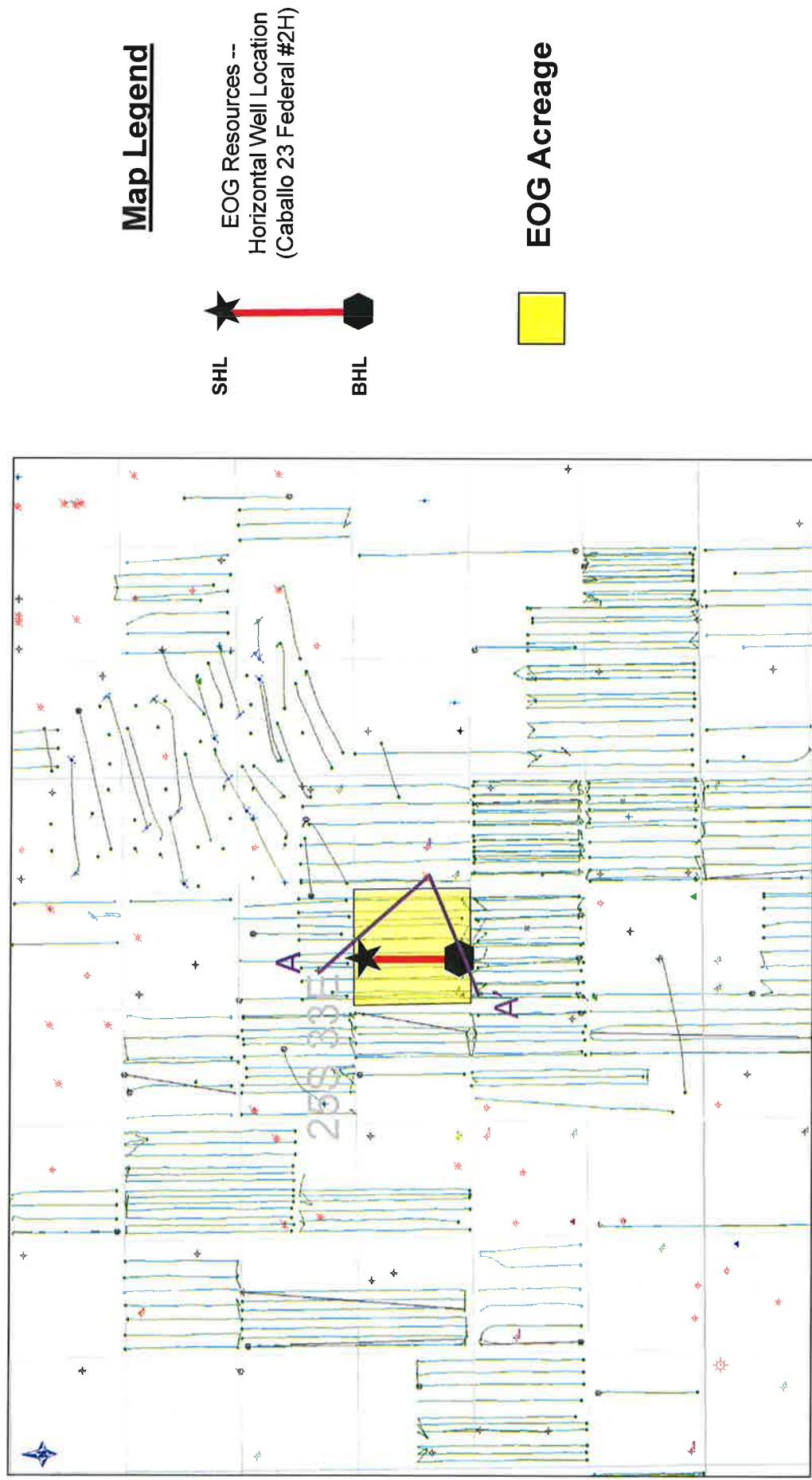
EOG Acreage



BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. 17

Submitted by: EOG Resources, Inc.
Hearing Date: December 12, 2019
Case # 20955

Caballo Area Cross Section Map



Caballo Area Cross Section

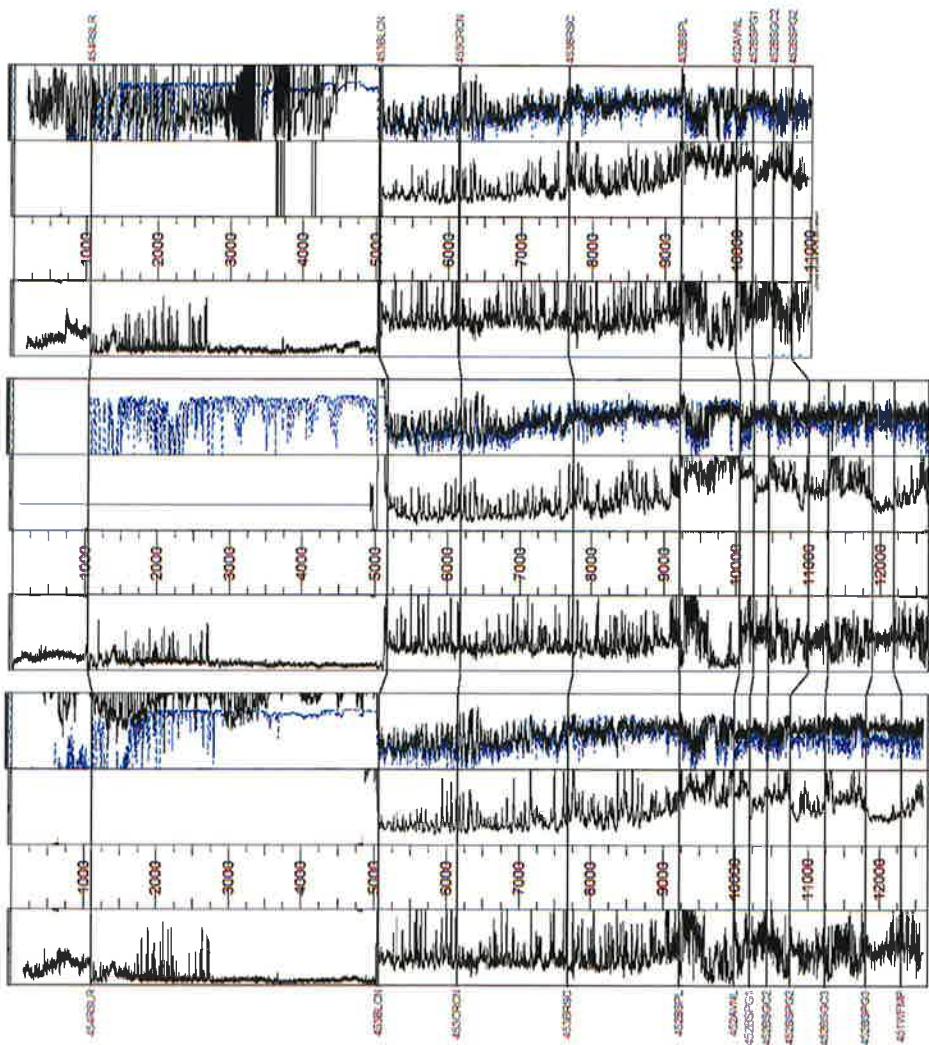
A
North

VACA '14' FEDERAL #1
30025341180000
ELEV_Z : 3.372

ANDRIKOPOULOS FEDERAL #001
30025341180000
ELEV_Z : 3.373

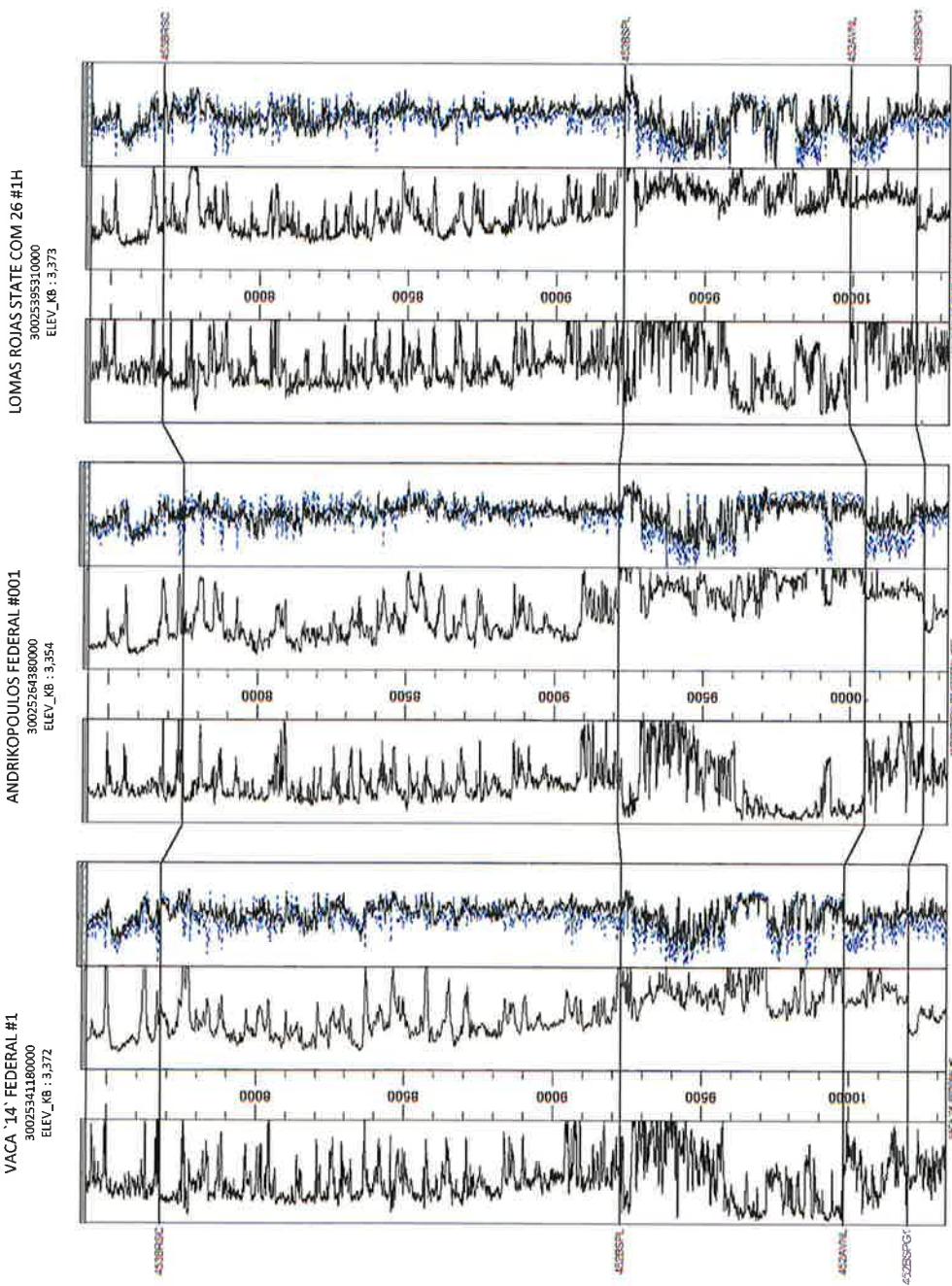
LOMAS ROJAS STATE COM 26 #1H
3002539310000
ELEV_XB : 3.373

A'
South



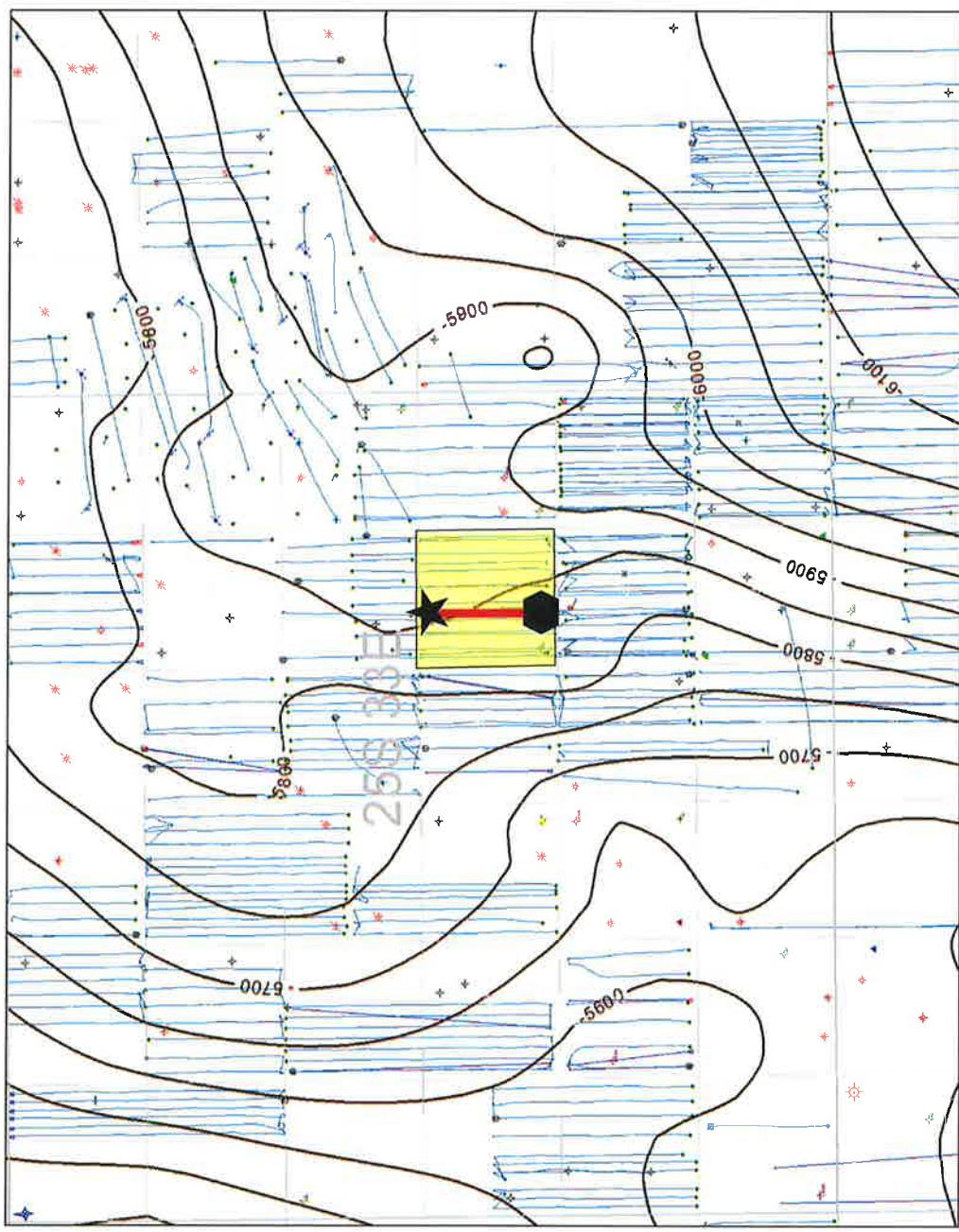
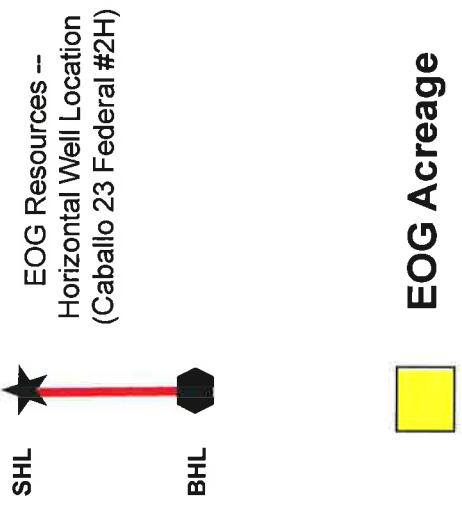
Caballo Area Cross Section

A' South
A North

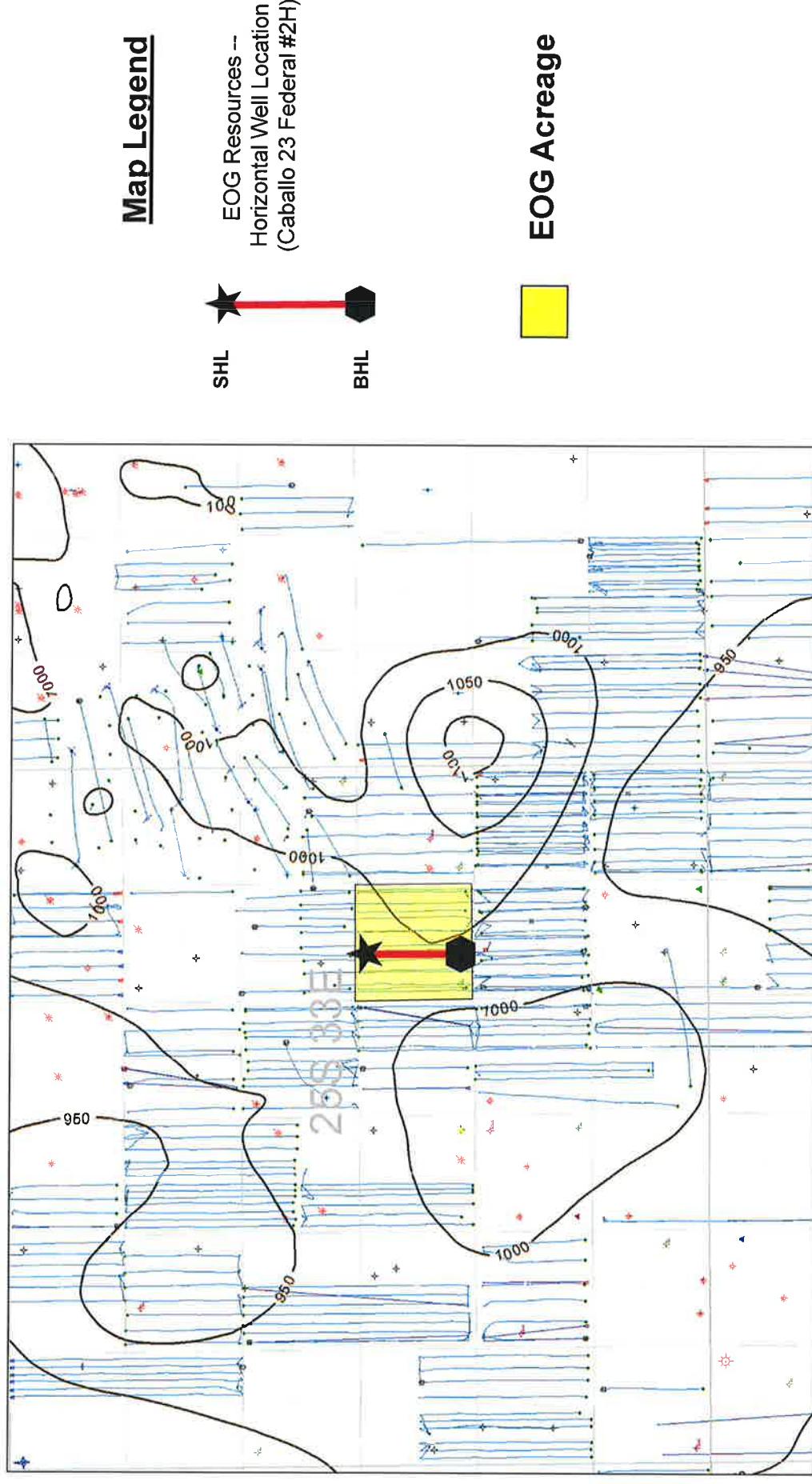


Caballo Area Structure with Top of Bone Spring Lime (SSTVD)

Map Legend



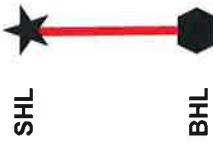
Caballo Area Isopach with Top Bone Spring Lime to Top First Bone



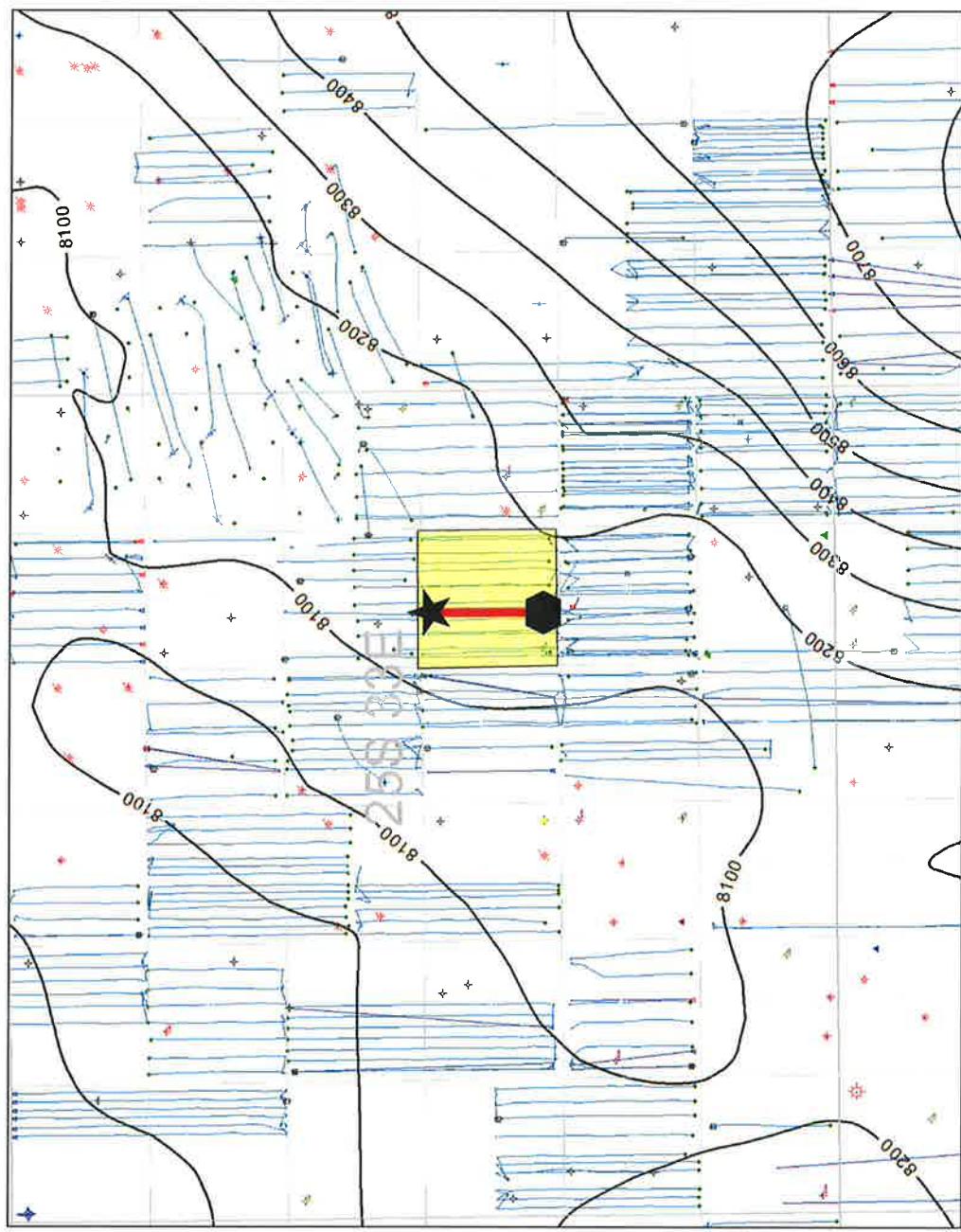
Caballo Area Isopach with Top Rustler to Top Bone Spring Lime

Map Legend

EOG Resources --
Horizontal Well Location
(Caballo 23 Federal #2H)



EOG Acreage



Caballo 23 Fed Com 2H Frac Summary

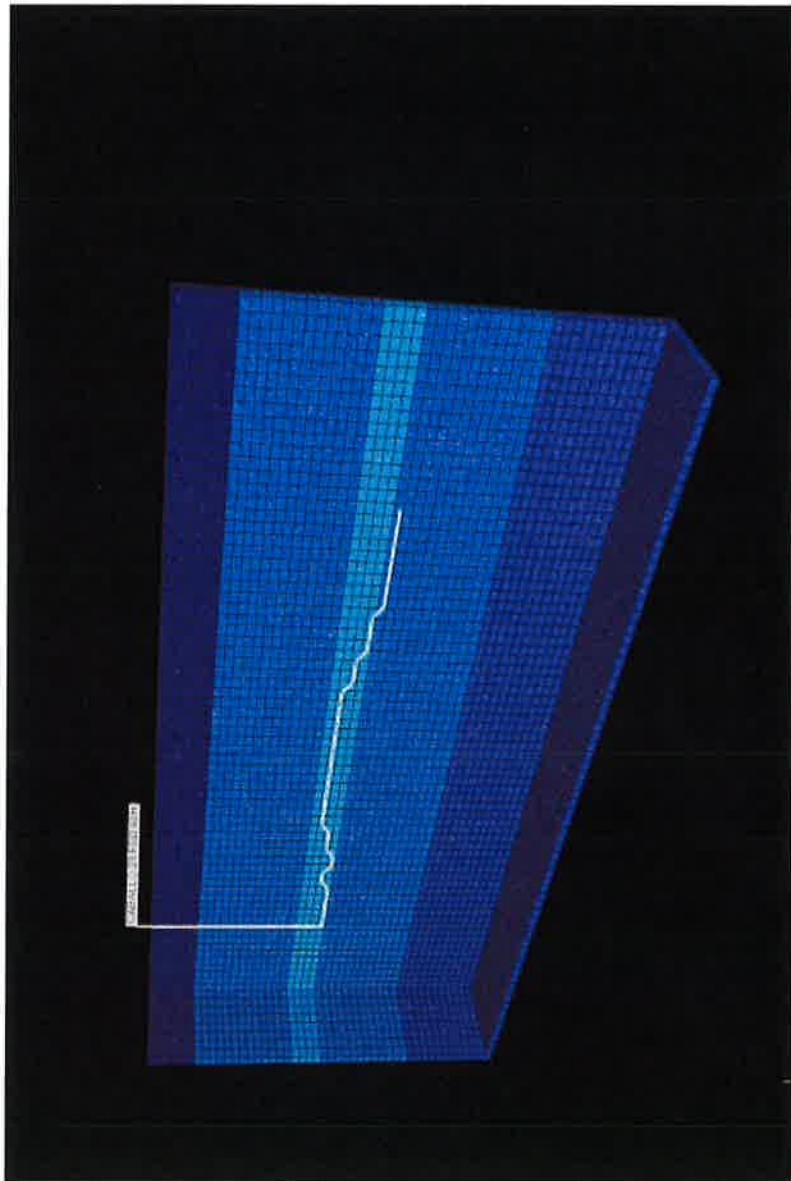
| Avg Pressure | Max Pressure | ISIP | FG |
|--------------|--------------|------|------|
| 6437 | 7786 | 2998 | 0.75 |

Prop
100 mesh
40/70

291 Mlbs
96 Mlbs
195 Mlbs

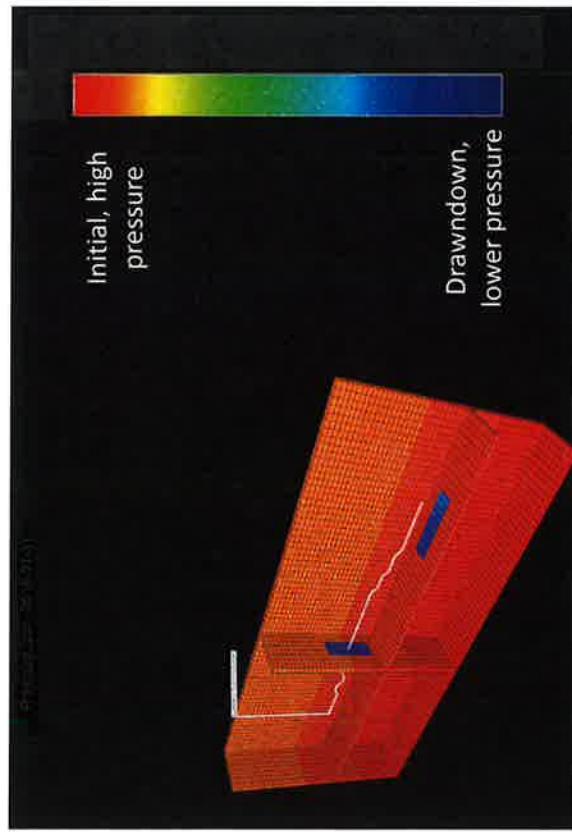
BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Exhibit No. 18
Submitted by: EOG Resources, Inc.
Hearing Date: December 12, 2019
Case # 20965

— Model



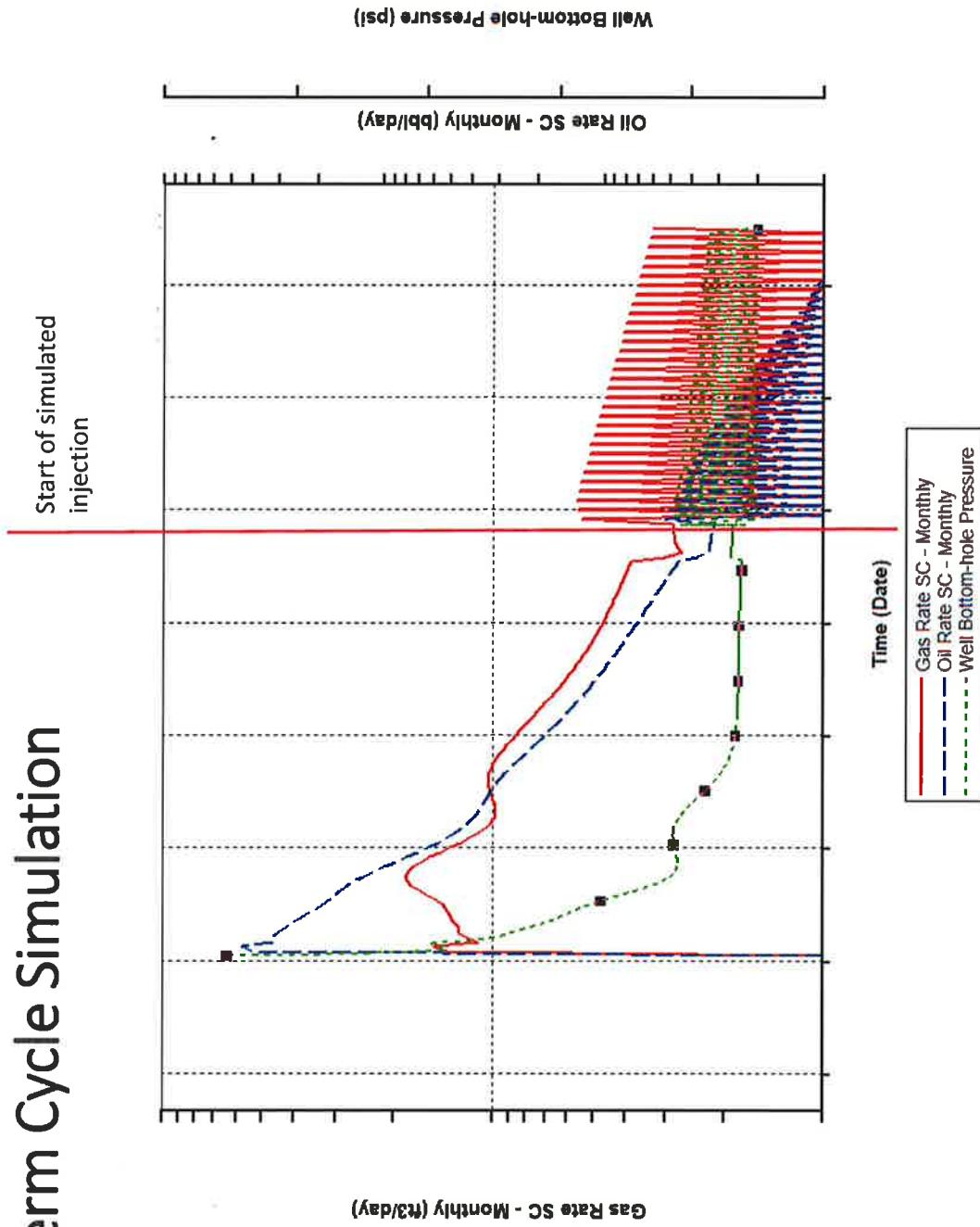
- Wellbore placed into geologic layers
- Layers assigned properties based on well log responses

Model



Within the matrix, drawdown is confined to near wellbore due to low permeability

Long Term Cycle Simulation



Long Term Cycle Simulation

