

| | | |
|--------------------------------|--|--------------------------------------|
| Well Name: VACA 24 FED COM | Well Location: T25S / R33E / SEC 24 / SESE / 32.1102909 / -103.5216286 | County or Parish/State: LEA / NM |
| Well Number: 708H | Type of Well: OIL WELL | Allottee or Tribe Name: |
| Lease Number: NMNM108504 | Unit or CA Name: | Unit or CA Number: |
| US Well Number: 300254696700X1 | Well Status: Drilling Well | Operator: EOG RESOURCES INCORPORATED |

Notice of Intent

| | |
|---|------------------------------|
| Type of Submission: Notice of Intent | Type of Action APD Change |
| Date Sundry Submitted: 01/23/2021 | Time Sundry Submitted: 11:57 |
| Date proposed operation will begin: 01/14/2021 | |
| Procedure Description: EOG respectfully requests an amendment to our approved APD for this well to reflect the following changes: Change BHL to T-25-S R-33-E Sec 13 100 feet FNL 990 feet FEL Lea Co, NM Increase HSU to 640 acres | |

Application

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Section 1 - General

| | | |
|------------------------------------|---|------------------------------|
| APD ID: 10400049521 | Tie to previous NOS? N | Submission Date: 10/16/2019 |
| BLM Office: CARLSBAD | User: Star Harrell | Title: Regulatory Specialist |
| Federal/Indian APD: FED | Is the first lease penetrated for production Federal or Indian? FED | |
| Lease number: NMNM108504 | Lease Acres: | |
| Surface access agreement in place? | Allotted? | Reservation: |
| Agreement in place? NO | Federal or Indian agreement: | |
| Agreement number: | | |
| Agreement name: | | |
| Keep application confidential? Y | | |
| Permitting Agent? NO | APD Operator: EOG RESOURCES INCORPORATED | |
| Operator letter of designation: | | |

Operator Info

| | | |
|--|-----------|------------|
| Operator Organization Name: EOG RESOURCES INCORPORATED | | |
| Operator Address: 1111 BAGBY ST., SKY LOBBY 2 | | Zip: 77002 |
| Operator PO Box: | | |
| Operator City: Houston | State: TX | |
| Operator Phone: (713)651-7000 | | |
| Operator Internet Address: | | |

Section 2 - Well Information

| | | |
|---|---|--|
| Well in Master Development Plan? NO | Master Development Plan name: | |
| Well in Master SUPO? NO | Master SUPO name: | |
| Well in Master Drilling Plan? NO | Master Drilling Plan name: | |
| Well Name: VACA 24 FED COM | Well Number: 708H | Well API Number: 3002546967 |
| Field/Pool or Exploratory? Field and Pool | Field Name: BOBCAT DRAW; UPPER WOLFCAMP | Pool Name: BOBCAT DRAW; UPPER WOLFCAMP |
| Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL | | |
| Is the proposed well in a Helium production area? N | Use Existing Well Pad? N | New surface disturbance? |
| Type of Well Pad: MULTIPLE WELL | Multiple Well Pad Name: VACA Number: 708H,709H,710H | |
| Well Class: HORIZONTAL | 24 FED COM | |
| | Number of Legs: 1 | |
| Well Work Type: Drill | | |
| Well Type: OIL WELL | | |
| Describe Well Type: | | |

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Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM108504

Unit or CA Name:

Unit or CA Number:

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Well Status: Drilling Well

Operator: EOG RESOURCES INCORPORATED

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Well sub-Type: INFILL

Describe sub-type:

Distance to town:Distance to nearest well: 33 FTDistance to lease line: 556 FT

Reservoir well spacing assigned acres Measurement: 480 Acres

Well plat: VACA_24_FED_COM_708H_C_102_20191016092604.pdf

Well work start Date: 05/01/2020Duration: 25 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83Vertical Datum: NAVD88

Survey number:Reference Datum: KELLY BUSHING

| Wellbore | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | TVD | Will this well produce from this lease? |
|--------------|---------|--------------|---------|--------------|------|-------|---------|-------------------|------------|--------------|--------|------------|------------|------------|--------------|-----------|-------|-------|---|
| SHL Leg #1 | 556 | FSL | 1271 | FEL | 25S | 33E | 24 | Aliquot SESE | 32.1102909 | -103.5216286 | LEA | NEW MEXICO | NEW MEXICO | F | NMNM108504 | 3331 | 0 | 0 | Y |
| KOP Leg #1 | 50 | FSL | 1356 | FEL | 25S | 33E | 24 | Aliquot SWSE | 32.1089004 | -103.5219023 | LEA | NEW MEXICO | NEW MEXICO | F | NMNM108504 | -8669 | 12020 | 12000 | Y |
| PPP Leg #1-1 | 100 | FSL | 1356 | FEL | 25S | 33E | 24 | Aliquot SWSE | 32.109037 | -103.521903 | LEA | NEW MEXICO | NEW MEXICO | F | NMNM108504 | -8881 | 12240 | 12212 | Y |
| EXIT Leg #1 | 100 | FNL | 990 | FEL | 25S | 33E | 13 | Aliquot NENE | 32.1375031 | -103.5207074 | LEA | NEW MEXICO | NEW MEXICO | F | NMNM019623 | -9146 | 22740 | 12477 | Y |

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Well Number: 708H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM108504

Unit or CA Name:

Unit or CA Number:

US Well Number: 300254696700X1

Well Status: Drilling Well

Operator: EOG RESOURCES INCORPORATED

| Wellbore | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | TVD | Will this well produce from this lease? |
|------------|---------|--------------|---------|--------------|------|-------|---------|-------------------|------------|--------------|--------|------------|------------|------------|--------------|-----------|-------|-------|---|
| BHL Leg #1 | 100 | FNL | 990 | FEL | 25S | 33E | 13 | Aliquot NENE | 32.1375031 | -103.5207074 | LEA | NEW MEXICO | NEW MEXICO | F | NMNM019623 | -9146 | 22740 | 12477 | Y |

Drilling Plan

Section 1 - Geologic Formations

| Formation ID | Formation Name | Elevation | True Vertical Depth | Measured Depth | Lithologies | Mineral Resources | Producing Formation |
|--------------|----------------|-----------|---------------------|----------------|-------------|-------------------|---------------------|
| 1375275 | PERMIAN | 3331 | 0 | 0 | ALLUVIUM | NONE | N |
| 1375276 | | 2210 | 1121 | 1121 | ANHYDRITE | NONE | N |
| 1375277 | | 1928 | 1403 | 1403 | SALT | NONE | N |
| 1375279 | | -1731 | 5062 | 5062 | SALT | NONE | N |
| 1375280 | | -1839 | 5170 | 5170 | LIMESTONE | NONE | N |
| 1375281 | | -1856 | 5187 | 5187 | SANDSTONE | NATURAL GAS, OIL | N |
| 1375282 | | -2860 | 6191 | 6191 | SANDSTONE | NATURAL GAS, OIL | N |
| 1375283 | | -4613 | 7944 | 7944 | SANDSTONE | NATURAL GAS, OIL | N |
| 1375278 | | -5951 | 9282 | 9282 | LIMESTONE | NONE | N |
| 1375284 | | -6961 | 10292 | 10292 | SANDSTONE | NATURAL GAS, OIL | N |
| 1375285 | | -7605 | 10936 | 10936 | SANDSTONE | NATURAL GAS, OIL | N |
| 1375286 | | -8598 | 11929 | 11929 | SANDSTONE | NATURAL GAS, OIL | N |
| 1375287 | | -9053 | 12384 | 12384 | SHALE | NATURAL GAS, OIL | Y |

Section 2 - Blowout Prevention

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|--------------------------------|--|--------------------------------------|
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| Well Number: 708H | Type of Well: OIL WELL | Allottee or Tribe Name: |
| Lease Number: NMNM108504 | Unit or CA Name: | Unit or CA Number: |
| US Well Number: 300254696700X1 | Well Status: Drilling Well | Operator: EOG RESOURCES INCORPORATED |

Pressure Rating (PSI): 10M Rating Depth: 12477

Equipment: The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. A multi-bowl wellhead system will be utilized. After running the 9-5/8 surface casing, a 9-5/8 BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 10,000 psi pressure test. This pressure test will be repeated at least every 30 days, as per Onshore Order No. 2 The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 10,000 psi. The multi-bowl wellhead will be installed by vendors representative(s). A copy of the installation instructions for the Cactus Multi-Bowl WH system has been sent to the NM BLM office in Carlsbad, NM. The wellhead will be installed by a third party welder while being monitored by WH vendors representative. All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type. A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi. Casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

Requesting Variance? YES

Variance request: Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line). Variance is requested to use a 5,000 psi annular BOP with the 10,000 psi BOP stack. Variance is requested to waive the centralizer requirements for the 7-5/8" FJ casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" hole interval to maximize cement bond and zonal isolation. Variance is also requested to waive any centralizer requirements for the 5-1/2" FJ casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation. Variance is also requested to waive the annular clearance requirements for the 5-1/2" casing by 7-5/8" casing annulus to the proposed top of cement. EOG requests permission to allow deviation from the 0.422" annulus clearance requirement from Onshore Order #2 under the following conditions: - Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casing strings. - Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section. EOG Resources also requests approval to implement Casing Design B. BLM will be notified of elected design at spud.

Testing Procedure: Pipe rams and blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

Choke Diagram Attachment:

- Co_Flex_Hose_Certification_20190814063604.pdf
- Co_Flex_Hose_Test_Chart_20190814063604.pdf
- 10_M_Choke_Manifold_20190814063605.pdf

BOP Diagram Attachment:

- 10_M_BOP_Diagram_9.675_in_20190814063620.pdf
- 10_M_BOP_Diagram_13.375_in_20190814063621.pdf
- EOG_BLM_10M_Annular_Variance___13.375_in_20190814063621.pdf
- EOG_BLM_10M_Annular_Variance___9.675_in_20190814063621.pdf

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County or Parish/State: LEA / NM

Well Number: 708H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM108504

Unit or CA Name:

Unit or CA Number:

US Well Number: 300254696700X1

Well Status: Drilling Well

Operator: EOG RESOURCES INCORPORATED

Section 3 - Casing

| Casing ID | String Type | Hole Size | Csg Size | Condition | Standard | Tapered String | Top Set MD | Bottom Set MD | Top Set TVD | Bottom Set TVD | Top Set MSL | Bottom Set MSL | Calculated casing length MD | Grade | Weight | Joint Type | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | |
|-----------|------------------|-----------|----------|-----------|----------|----------------|------------|---------------|-------------|----------------|-------------|----------------|-----------------------------|-------------|--------|---------------------------|-------------|----------|---------------|----------|--------------|-----|
| 1 | SURFACE | 12.25 | 9.625 | NEW | API | N | 0 | 1195 | 0 | 1195 | 3331 | 2136 | 1195 | J-55 | 40 | LT&C | 1.125 | 1.25 | BUOY | 1.6 | BUOY | 1.6 |
| 2 | PRODUCTI ON | 6.75 | 5.5 | NEW | API | N | 0 | 10945 | 0 | 10945 | | -7614 | 10945 | OT HER | 20 | OTHER - DWC/C-IS MS | 1.125 | 1.25 | BUOY | 1.6 | BUOY | 1.6 |
| 3 | INTERMED IATE | 8.75 | 7.625 | NEW | API | N | 0 | 11445 | 0 | 11445 | | -8114 | 11445 | HCP -110 | 29.7 | OTHER - FXL | 1.125 | 1.25 | BUOY | 1.6 | BUOY | 1.6 |
| 4 | PRODUCTI ON | 6.75 | 5.5 | NEW | API | N | 10945 | 11445 | 10945 | 11445 | -7614 | -8114 | 500 | OT HER | 20 | OTHER - VAM SFC | 1.125 | 1.25 | BUOY | 1.6 | BUOY | 1.6 |
| 5 | PRODUCTI ON | 6.75 | 5.5 | NEW | API | N | 11445 | 20061 | 11445 | 12477 | -8113 | -9146 | 8616 | OT HER | 20 | OTHER - DWC/C-IS MS | 1.125 | 1.25 | BUOY | 1.6 | BUOY | 1.6 |

Casing Attachments

Casing ID: 1String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Vaca_24_Fed_Com_708H_Permit_Info_20191016095334.pdf

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Well Name: VACA 24 FED COM

Well Location: T25S / R33E / SEC 24 / SESE / 32.1102909 / -103.5216286

County or Parish/State: LEA / NM

Well Number: 708H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM108504

Unit or CA Name:

Unit or CA Number:

US Well Number: 300254696700X1

Well Status: Drilling Well

Operator: EOG RESOURCES INCORPORATED

Casing Attachments

Casing ID: 2String Type:PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_20191016095822.pdf
5.500in_20.00_VST_P110EC_DWC_C_IS_MS_Spec_Sheet_20191016095828.pdf

Casing ID: 3String Type:INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_20191015152747.pdf
7.625in_29.70_P110HC_FXL_20191016095810.pdf

Casing ID: 4String Type:PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_20191016100136.pdf
5.500in_20.00_VST_P110EC_VAM_SFC_20191016100148.pdf

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Well Name: VACA 24 FED COM

Well Location: T25S / R33E / SEC 24 / SESE / 32.1102909 / -103.5216286

County or Parish/State: LEA / NM

Well Number: 708H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM108504

Unit or CA Name:

Unit or CA Number:

US Well Number: 300254696700X1

Well Status: Drilling Well

Operator: EOG RESOURCES INCORPORATED

Casing Attachments

Casing ID: 5String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

See_previously_attached_Drill_Plan_20191016100054.pdf
5.500in_20.00_VST_P110EC_DWC_C_IS_MS_Spec_Sheet_20191016100104.pdf

Section 4 - Cement

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|-------------|-----------|------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|-----------|
| PRODUCTION | Lead | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | n/a | n/a |

| | | | | | | | | | | | |
|------------|------|--|---|---|---|---|---|---|---|-----|-----|
| PRODUCTION | Lead | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A | N/A |
|------------|------|--|---|---|---|---|---|---|---|-----|-----|

| | | | | | | | | | | | |
|--------------|------|--|------|-------|------|------|------|------|----|---------|---|
| SURFACE | Lead | | 0 | 995 | 1060 | 1.73 | 13.5 | 1834 | 25 | Class C | Class C + 4.0% Bentonite + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface) |
| SURFACE | Tail | | 995 | 1195 | 80 | 1.34 | 14.8 | 107 | 25 | Class C | Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 995') |
| INTERMEDIATE | Lead | | 0 | 7900 | 1000 | 2.3 | 12.7 | 2300 | 25 | Class C | Lead: Bradenhead Squeeze Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ Surface) |
| INTERMEDIATE | Tail | | 7900 | 11445 | 450 | 1.11 | 14.2 | 500 | 25 | Class C | Tail: Class C: + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC 7,900') |

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Well Number: 708H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM108504

Unit or CA Name:

Unit or CA Number:

US Well Number: 300254696700X1

Well Status: Drilling Well

Operator: EOG RESOURCES INCORPORATED

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|-------------|-----------|------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|--|
| PRODUCTION | Lead | | 11445 | 20061 | 740 | 1.31 | 14.2 | 969 | 25 | Class H | Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,945') |

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: ((A) A kelly cock will be kept in the drill string at all times. (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times. (C) H2S monitoring and detection equipment will be utilized from surface casing point to TD.

Describe the mud monitoring system utilized: The highest mud weight needed to balance formation is expected to be 11.5 ppg. In order to maintain hole stability, mud weights up to 14.0 ppg may be utilized. An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate. Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

Circulating Medium Table

| Top Depth | Bottom Depth | Mud Type | Min Weight (lbs/gal) | Max Weight (lbs/gal) | Density (lbs/cu ft) | Gel Strength (lbs/100 sqft) | PH | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|--------------|-----------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
| 1195 | 11445 | SALT SATURATED | 10 | 10.2 | | | | | | | |
| 0 | 1195 | WATER-BASED MUD | 8.6 | 8.8 | | | | | | | |
| 11445 | 12020 | OIL-BASED MUD | 8.7 | 9.4 | | | | | | | |
| 12020 | 12477 | OIL-BASED MUD | 10 | 14 | | | | | | | |

| | | |
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| US Well Number: 300254696700X1 | Well Status: Drilling Well | Operator: EOG RESOURCES INCORPORATED |

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Open-hole logs are not planned for this well.

List of open and cased hole logs run in the well:

DIRECTIONAL SURVEY,

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 9073

Anticipated Surface Pressure: 6328

Anticipated Bottom Hole Temperature(F): 181

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Vaca_24_Fed_Com_708H_H2S_Plan_Summary_20191016100745.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Vaca_24_Fed_Com_708H_Planning_report_20191016100804.pdf

Vaca_24_Fed_Com_708H_Wall_Plot_20191016100809.pdf

Other proposed operations facets description:

(A) EOG Resources requests the option to contract a Surface Rig to drill, set surface casing, and cement on the subject well. After WOC 8 hours or 500 psi compressive strength (whichever is greater), the Surface Rig will move off so the wellhead can be installed. A welder will cut the casing to the proper height and weld on the wellhead (both A and B sections). The weld will be tested to 1000 psi. All valves will be closed and a wellhead cap will be installed (diagram attached). If the timing between rigs is such that EOG Resources would not be able to preset the surface, the Primary Rig will MIRU and drill the well in its entirety per the APD.

EOG requests to pump a two stage cement job on the 7-5/8 intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (7,944) and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 1,000 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. The final cement top will be verified by Echo-meter.

EOG will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

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| US Well Number: 300254696700X1 | Well Status: Drilling Well | Operator: EOG RESOURCES INCORPORATED |

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

EOG Resources respectfully requests approval to implement Casing Design B (Pages 8-9 of the attached Permit Info document). BLM will be notified of elected design at spud.

Other proposed operations facets attachment:

- 5.500in_20.00_VST_P110EC_DWC_C_IS_MS_Spec_Sheet_20191015153655.pdf
- 5.500in_20.00_VST_P110EC_VAM_SFC_20191015153655.pdf
- 7.625in_29.70_P110HC_FXL_20191015153655.pdf
- Vaca_24_Fed_Com_708H_Rig_Layout_20191016115657.pdf
- Vaca_24_Fed_Com_708H_Permit_Info_20191016115657.pdf
- Wellhead_13.375_in_20191015153714.pdf
- Wellhead_9.675_in_20191015153714.pdf

Other Variance attachment:

- 10_M_BOP_Diagram_13.375_in_20191015153819.pdf
- 10_M_BOP_Diagram_9.675_in_20191015153819.pdf
- 10_M_Choke_Manifold_20191015153825.pdf
- Co_Flex_Hose_Certification_20191015153752.pdf
- Co_Flex_Hose_Test_Chart_20191015153753.pdf
- EOG_BLM_10M_Annular_Variance___13.375_in_20191015153752.pdf
- EOG_BLM_10M_Annular_Variance___9.675_in_20191015153753.pdf

SUPO

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

VACA_24_FED_COM_708H_Vicinity_20191016115723.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

County or Parish/State: LEA / NM

Allottee or Tribe Name:

Unit or CA Number:

Operator: EOG RESOURCES
INCORPORATED

| | | |
|--------------------------------|--|--------------------------------------|
| Well Name: VACA 24 FED COM | Well Location: T25S / R33E / SEC 24 / SESE / 32.1102909 / -103.5216286 | County or Parish/State: LEA / NM |
| Well Number: 708H | Type of Well: OIL WELL | Allottee or Tribe Name: |
| Lease Number: NMNM108504 | Unit or CA Name: | Unit or CA Number: |
| US Well Number: 300254696700X1 | Well Status: Drilling Well | Operator: EOG RESOURCES INCORPORATED |

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

VACA_24_FED_COM_708H_Radius_20191016115816.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Vaca 24 Fed Com Central Tank Battery is located in the S/2 of Section 24.

Production Facilities map:

- EP_VACA24FEDCOM_708H_710H_FL_STATE_1_S_20191016115856.PDF
- EP_VACA24FEDCOM_708H_710H_FL_USA_1_S_20191016115855.PDF
- EP_TRAPER_VACA_GL_S24_STATE_S_20190814080240.pdf
- EP_TRAPPER_VACA_GL_S19_S_20190814080240.pdf
- EP_TRAPPER_VACA_GL_S24_USA_S_20190814080241.pdf
- EP_TRAPPER_VACA_GL_S30_STATE_S_20190814080241.pdf
- EP_VACA24FC_GAS_S24_STATE_1_S_20190814080240.pdf
- EP_VACA24FC_GAS_S24_USA_S_20190814080241.pdf
- EP_VACA24FC_GAS_S25_S_20190814080241.pdf
- EP_VACA24FC_GAS_S30_S_20190814080241.pdf
- EP_VACA24FC_WATER_S24_STATE_S_20190814080252.pdf
- EP_VACA24FC_WATER_S24_USA_S_20190814080252.pdf
- EP_VACA24FC_WATER_S25_S_20190814080252.pdf
- EP_VACA24FC_WATER_S30_S_20190814080252.pdf
- VACA_24_FED_COM_CTB_S_20190814080857.pdf
- VACA_24_FED_COM_INFRA_REV3_20190814080856.pdf
- EP_VACA24FEDCOM_708H_710H_ROAD_1_S_20191016123127.PDF

Section 5 - Location and Types of Water Supply

Water Source Table

| | |
|-----------------------------|---|
| Water source type: RECYCLED | |
| Water source use type: | OTHER |
| Source latitude: | Describe use type: Water will be supplied from the fra water source map. This location will be drilled using a c (outlined in the drilling program). The water will be obta in the area or recycled treated water and hauled to loca using existing and proposed roads depicted on the prop these cases where a poly pipeline is used to transport f proper authorizations will be secured by the contractor. |
| Source datum: | Source longitude: |

| | | |
|--------------------------------|--|--------------------------------------|
| Well Name: VACA 24 FED COM | Well Location: T25S / R33E / SEC 24 / SESE / 32.1102909 / -103.5216286 | County or Parish/State: LEA / NM |
| Well Number: 708H | Type of Well: OIL WELL | Allottee or Tribe Name: |
| Lease Number: NMNM108504 | Unit or CA Name: | Unit or CA Number: |
| US Well Number: 300254696700X1 | Well Status: Drilling Well | Operator: EOG RESOURCES INCORPORATED |

OTHER

Describe use type: Water will be supplied from the fractured water source map. This location will be drilled using a completion (outlined in the drilling program). The water will be obtained in the area or recycled treated water and hauled to location using existing and proposed roads depicted on the proposed map. In these cases where a poly pipeline is used to transport fluid, proper authorizations will be secured by the contractor.

Water source permit type: WATER RIGHT

Water source transport method: PIPELINE
TRUCKING

Source land ownership: FEDERAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 0
Source volume (acre-feet): 0
Source volume (gal): 0

Water source and transportation map:
Vaca_Water_and_Caliche_Map_20190814080937.pdf

Water source comments:

New water well? N

New Water Well Info

Well latitude: Well Longitude: Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft): Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

| | |
|-------------------------------------|------------------------------------|
| Well depth (ft): | Well casing type: |
| Well casing outside diameter (in.): | Well casing inside diameter (in.): |
| New water well casing? | Used casing source: |
| Drilling method: | Drill material: |
| Grout material: | Grout depth: |
| Casing length (ft.): | Casing top depth (ft.): |
| Well Production type: | Completion Method: |

Water well additional information:

State appropriation permit:

Additional information attachment:

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| | | |
|--------------------------------|--|--------------------------------------|
| Well Name: VACA 24 FED COM | Well Location: T25S / R33E / SEC 24 / SESE / 32.1102909 / -103.5216286 | County or Parish/State: LEA / NM |
| Well Number: 708H | Type of Well: OIL WELL | Allottee or Tribe Name: |
| Lease Number: NMNM108504 | Unit or CA Name: | Unit or CA Number: |
| US Well Number: 300254696700X1 | Well Status: Drilling Well | Operator: EOG RESOURCES INCORPORATED |

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Caliche will be supplied from pits shown on the attached caliche source map. Caliche utilized for the drilling pad will be obtained either from an existing approved mineral pit, or by benching into a hill, which will allow the pad to be level with existing caliche from the cut, or extracted by “Flipping” the well location. A mineral material permit will be obtained from BLM prior to excavating any caliche on Federal Lands. Amount will vary for each pad. The procedure for “Flipping” a well location is as follows: * -An adequate amount of topsoil/root zone (usually top 6 inches of soil) will be stripped from the proposed well location and stockpiled along the side of the well location as depicted on the well site diagram/survey plat. -An area will be used within the proposed well site dimensions to excavate caliche. Subsoil will be removed and stockpiled within the surveyed well pad dimensions. -Once caliche/surfacing mineral is found, the mineral material will be excavated and stock piled within the approved drilling pad dimensions. -Then, subsoil will be pushed back in the excavated hole and caliche will be spread accordingly across the entire well pad and road (if available). -Neither caliche, nor subsoil will be stock piled outside of the well pad dimensions. Topsoil will be stockpiled along the edge of the pad as depicted in the Well Site Layout or survey plat. * In the event that no caliche is found onsite, caliche will be hauled in from a BLM approved caliche pit or other established mineral pit. A BLM mineral material permit will be acquired prior to obtaining any mineral material from BLM pits or federal land.

Construction Materials source location attachment:

Vaca_Water_and_Caliche_Map_20190814081253.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drill fluids and produced oil and water from the well during drilling and completion operations will be stored safely and disposed of properly in an NMOCD approved disposal facility. Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly. Human waste and grey water will be properly contained of and disposed of properly. After drilling and completion operations; trash, chemicals, salts, frac sand, and other waste material will be removed and disposed of properly at a state approved disposal facility.

Amount of waste: 0 barrels

Waste disposal frequency : Daily

Safe containment description: Steel Tanks

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY Disposal location ownership: COMMERCIAL

Disposal type description:

Disposal location description: Trucked to NMOCD approved disposal facility

Reserve Pit

Reserve Pit being used? N

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.) Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

| | | |
|--------------------------------|--|--------------------------------------|
| Well Name: VACA 24 FED COM | Well Location: T25S / R33E / SEC 24 / SESE / 32.1102909 / -103.5216286 | County or Parish/State: LEA / NM |
| Well Number: 708H | Type of Well: OIL WELL | Allottee or Tribe Name: |
| Lease Number: NMNM108504 | Unit or CA Name: | Unit or CA Number: |
| US Well Number: 300254696700X1 | Well Status: Drilling Well | Operator: EOG RESOURCES INCORPORATED |

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Description of cuttings location Closed Loop System. Drill cuttings will be disposed of into steel tanks and taken to an NMOCD approved disposal facility.

| | |
|----------------------------|--------------------------------|
| Cuttings area length (ft.) | Cuttings area width (ft.) |
| Cuttings area depth (ft.) | Cuttings area volume (cu. yd.) |

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

VACA_24_FED_COM_708H_Wellsite_20191016123308.pdf

VACA_24_FED_COM_708H_Padsite_20191016123314.pdf

Vaca_24_Fed_Com_708H_Rig_Layout_20191016123323.pdf

Comments: Exhibit 2A-Wellsite & Exhibit 2B-Padsite Rig Layout Exhibit 4

Section 10 - Plans for Surface Reclamation

| | |
|--|--|
| Type of disturbance: New Surface Disturbance | Multiple Well Pad Name: VACA 24 FED COM |
| | Multiple Well Pad Number: 708H,709H,710H |

Recontouring attachment:

VACA_24_FED_COM_708H_Reclamation_20191016123521.pdf

Drainage/Erosion control construction: Proper erosion control methods will be used on the area to control erosion, runoff, and siltation of the surrounding area.

Drainage/Erosion control reclamation: The interim reclamation will be monitored periodically to ensure that vegetation has reestablished and that erosion is controlled.

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Well Name: VACA 24 FED COM

Well Location: T25S / R33E / SEC 24 / SESE / 32.1102909 / -103.5216286

County or Parish/State: LEA / NM

Well Number: 708H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM108504

Unit or CA Name:

Unit or CA Number:

US Well Number: 300254696700X1

Well Status: Drilling Well

Operator: EOG RESOURCES INCORPORATED

| | | |
|---|--|--|
| Well pad proposed disturbance (acres): 0 | Well pad interim reclamation (acres): 0 | Well pad long term disturbance (acres): 0 |
| Road proposed disturbance (acres): 0 | Road interim reclamation (acres): 0 | Road long term disturbance (acres): 0 |
| Powerline proposed disturbance (acres): 0 | Powerline interim reclamation (acres): 0 | Powerline long term disturbance (acres): 0 |
| Pipeline proposed disturbance (acres): 0 | Pipeline interim reclamation (acres): 0 | Pipeline long term disturbance (acres): 0 |
| Other proposed disturbance (acres): 0 | Other interim reclamation (acres): 0 | Other long term disturbance (acres): 0 |
| Total proposed disturbance: 0 | Total interim reclamation: 0 | Total long term disturbance: 0 |

Disturbance Comments: All Interim and Final reclamation must be within 6 months. Interim must be within 6 months of completion and final within 6 months of abandonment plugging. Dual pad operations may alter timing.

Reconstruction method: In areas planned for interim reclamation, all the surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads. Areas planned for interim reclamation will be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

Topsoil redistribution: Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts and fills. To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

Soil treatment: Re-seed according to BLM standards. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion is controlled.

Existing Vegetation at the well pad: Grass, forbs, and small woody vegetation, such as mesquite will be excavated as the topsoil is removed. Large woody vegetation will be stripped and stored separately and respreads evenly on the site following topsoil resspreading. Topsoil depth is defined as the top layer of soil that contains 80% of the roots. In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location and along the perimeter of the access road to control run-on and run-off, to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: All disturbed areas, including roads, pipelines, pads, will be recontoured to the contour existing prior to the initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: All disturbed areas, including roads, pipelines, pads, will be recontoured to the contour existing prior to the initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: All disturbed areas, including roads, pipelines, pads, will be recontoured to the contour existing prior to the initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.

Existing Vegetation Community at other disturbances attachment:

Non native seed used? N

Non native seed description:

| | | |
|--------------------------------|--|--------------------------------------|
| Well Name: VACA 24 FED COM | Well Location: T25S / R33E / SEC 24 / SESE / 32.1102909 / -103.5216286 | County or Parish/State: LEA / NM |
| Well Number: 708H | Type of Well: OIL WELL | Allottee or Tribe Name: |
| Lease Number: NMNM108504 | Unit or CA Name: | Unit or CA Number: |
| US Well Number: 300254696700X1 | Well Status: Drilling Well | Operator: EOG RESOURCES INCORPORATED |

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

| Seed Summary | |
|--------------|-------------|
| Seed Type | Pounds/Acre |

Total pounds/Acre:

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

| | |
|-------------|------------|
| First Name: | Last Name: |
| Phone: | Email: |

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, erosion is controlled, and free of noxious weeds. Weeds will be treated if found.
Weed treatment plan attachment:

Monitoring plan description: Reclamation will be completed within 6 months of well plugging. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, erosion is controlled, and free of noxious weeds.
Monitoring plan attachment:

Success standards: N/A

Pit closure description: NA

Pit closure attachment:

Section 11 - Surface Ownership

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| | | |
|--------------------------------|--|--------------------------------------|
| Well Name: VACA 24 FED COM | Well Location: T25S / R33E / SEC 24 / SESE / 32.1102909 / -103.5216286 | County or Parish/State: LEA / NM |
| Well Number: 708H | Type of Well: OIL WELL | Allottee or Tribe Name: |
| Lease Number: NMNM108504 | Unit or CA Name: | Unit or CA Number: |
| US Well Number: 300254696700X1 | Well Status: Drilling Well | Operator: EOG RESOURCES INCORPORATED |

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? N

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information: Poly lines are planned to transport water for operations. Will truck if necessary. See attached SUPO Plan.

Use a previously conducted onsite? N

Previous Onsite information:

Other SUPO Attachment

VACA_24_FED_COM_708H_Location_20191016123538.pdf

SUPO_VACA_24_FED_COM_708H_20191016123604.pdf

PWD

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| | | |
|--------------------------------|--|--------------------------------------|
| Well Name: VACA 24 FED COM | Well Location: T25S / R33E / SEC 24 / SESE / 32.1102909 / -103.5216286 | County or Parish/State: LEA / NM |
| Well Number: 708H | Type of Well: OIL WELL | Allottee or Tribe Name: |
| Lease Number: NMNM108504 | Unit or CA Name: | Unit or CA Number: |
| US Well Number: 300254696700X1 | Well Status: Drilling Well | Operator: EOG RESOURCES INCORPORATED |

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

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| | | |
|--------------------------------|--|--------------------------------------|
| Well Name: VACA 24 FED COM | Well Location: T25S / R33E / SEC 24 / SESE / 32.1102909 / -103.5216286 | County or Parish/State: LEA / NM |
| Well Number: 708H | Type of Well: OIL WELL | Allottee or Tribe Name: |
| Lease Number: NMNM108504 | Unit or CA Name: | Unit or CA Number: |
| US Well Number: 300254696700X1 | Well Status: Drilling Well | Operator: EOG RESOURCES INCORPORATED |

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? N

| | | |
|--------------------------------|--|--------------------------------------|
| Well Name: VACA 24 FED COM | Well Location: T25S / R33E / SEC 24 / SESE / 32.1102909 / -103.5216286 | County or Parish/State: LEA / NM |
| Well Number: 708H | Type of Well: OIL WELL | Allottee or Tribe Name: |
| Lease Number: NMNM108504 | Unit or CA Name: | Unit or CA Number: |
| US Well Number: 300254696700X1 | Well Status: Drilling Well | Operator: EOG RESOURCES INCORPORATED |

| | |
|---|----------------------------|
| Produced Water Disposal (PWD) Location: | |
| PWD surface owner: | PWD disturbance (acres): |
| Injection PWD discharge volume (bbl/day): | |
| Injection well mineral owner: | |
| Injection well type: | |
| Injection well number: | Injection well name: |
| Assigned injection well API number? | Injection well API number: |
| Injection well new surface disturbance (acres): | |
| Minerals protection information: | |
| Mineral protection attachment: | |
| Underground Injection Control (UIC) Permit? | |
| UIC Permit attachment: | |

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? N

| | |
|---|--------------------------|
| Produced Water Disposal (PWD) Location: | |
| PWD surface owner: | PWD disturbance (acres): |
| Surface discharge PWD discharge volume (bbl/day): | |
| Surface Discharge NPDES Permit? | |
| Surface Discharge NPDES Permit attachment: | |
| Surface Discharge site facilities information: | |
| Surface discharge site facilities map: | |

Section 6 - Other

Would you like to utilize Other PWD options? N

| | |
|--|--------------------------|
| Produced Water Disposal (PWD) Location: | |
| PWD surface owner: | PWD disturbance (acres): |
| Other PWD discharge volume (bbl/day): | |
| Other PWD type description: | |
| Other PWD type attachment: | |
| Have other regulatory requirements been met? | |
| Other regulatory requirements attachment: | |

Operator Certification

| | | |
|--------------------------------|--|--------------------------------------|
| Well Name: VACA 24 FED COM | Well Location: T25S / R33E / SEC 24 / SESE / 32.1102909 / -103.5216286 | County or Parish/State: LEA / NM |
| Well Number: 708H | Type of Well: OIL WELL | Allottee or Tribe Name: |
| Lease Number: NMNM108504 | Unit or CA Name: | Unit or CA Number: |
| US Well Number: 300254696700X1 | Well Status: Drilling Well | Operator: EOG RESOURCES INCORPORATED |

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

| | |
|--|-----------------------|
| NAME: Star Harrell | Signed on: 01/23/2021 |
| Title: Regulatory Specialist | |
| Street Address: 5509 CHAMPIONS DRIVE | |
| City: MIDLAND | State: TX |
| | Zip: 79702 |
| Phone: (432)848-9161 | |
| Email address: Star_Harrell@eogresources.com | |

Field Representative

| | |
|----------------------|--------|
| Representative Name: | |
| Street Address: | |
| City: | State: |
| | Zip: |
| Phone: | |
| Email address: | |

NOI Attachments

Procedure Description

- VACA_24_FED_COM_708H_C102_signed_20210123115119.pdf
- Vaca_24_Fed_Com_708H_Wall_Plot_20210123115118.pdf

| | | |
|---------------------------------------|---|---|
| Well Name: VACA 24 FED COM | Well Location: T25S / R33E / SEC 24 / SESE / 32.1102909 / -103.5216286 | County or Parish/State: LEA / NM |
| Well Number: 708H | Type of Well: OIL WELL | Allottee or Tribe Name: |
| Lease Number: NMNM108504 | Unit or CA Name: | Unit or CA Number: |
| US Well Number: 300254696700X1 | Well Status: Drilling Well | Operator: EOG RESOURCES INCORPORATED |

Vaca_24_Fed_Com_708H_Planning_Report_20210123115111.pdf

Vaca_24_Fed_Com_708H_Permit_Info___Revised_HSU___BHL_1.5.2020_20210123115101.pdf

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

| | |
|--|---|
| Operator Electronic Signature: HARRELL | Signed on: JAN 23, 2021 11:56 AM |
| Name: EOG RESOURCES INCORPORATED | |
| Title: Regulatory Specialist | |
| Street Address: 1111 BAGBY ST., SKY LOBBY 2 | |
| City: Houston | State: TX |
| Phone: (713) 651-7000 | |
| Email address: | |

Field Representative

| | | |
|-----------------------------|---------------|-------------|
| Representative Name: | | |
| Street Address: | | |
| City: | State: | Zip: |
| Phone: | | |
| Email address: | | |

BLM Point of Contact

| | |
|----------------------------------|--|
| BLM POC Name: Cody Layton | BLM POC Title: Assistant Field Manager Lands & Minerals |
| BLM POC Phone: 5752345959 | BLM POC Email Address: clayton@blm.gov |
| Disposition: Approved | Disposition Date: 01/26/2021 |
| Signature: Cody r. Layton | |

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

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

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | | |
|---|--|--|--|
| ¹ API Number 30-025- 46967 | | ² Pool Code 98094 | ³ Pool Name BOBCAT DRAW, UPPER WOLFCAMP |
| ⁴ Property Code 39180 | ⁵ Property Name VACA 24 FED COM | | ⁶ Well Number 708H |
| ⁷ OGRID No. 7377 | ⁸ Operator Name EOG RESOURCES, INC. | | ⁹ Elevation 3331' |

¹⁰Surface Location

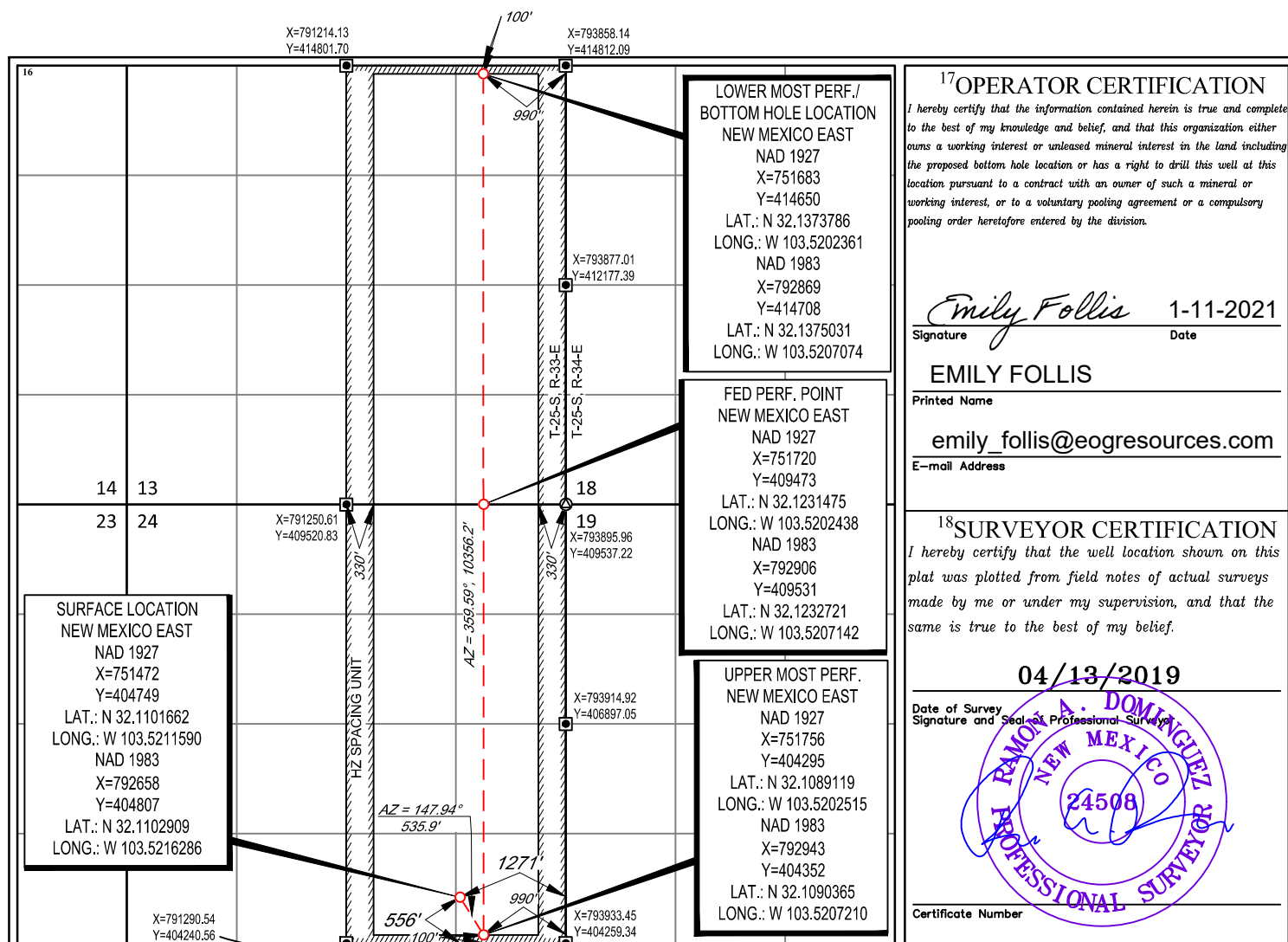
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|-----------|-------------|-------------|----------|---------------|------------------|---------------|----------------|------------|
| P | 24 | 25-S | 33-E | - | 556' | SOUTH | 1271' | EAST | LEA |

¹¹Bottom Hole Location If Different From Surface

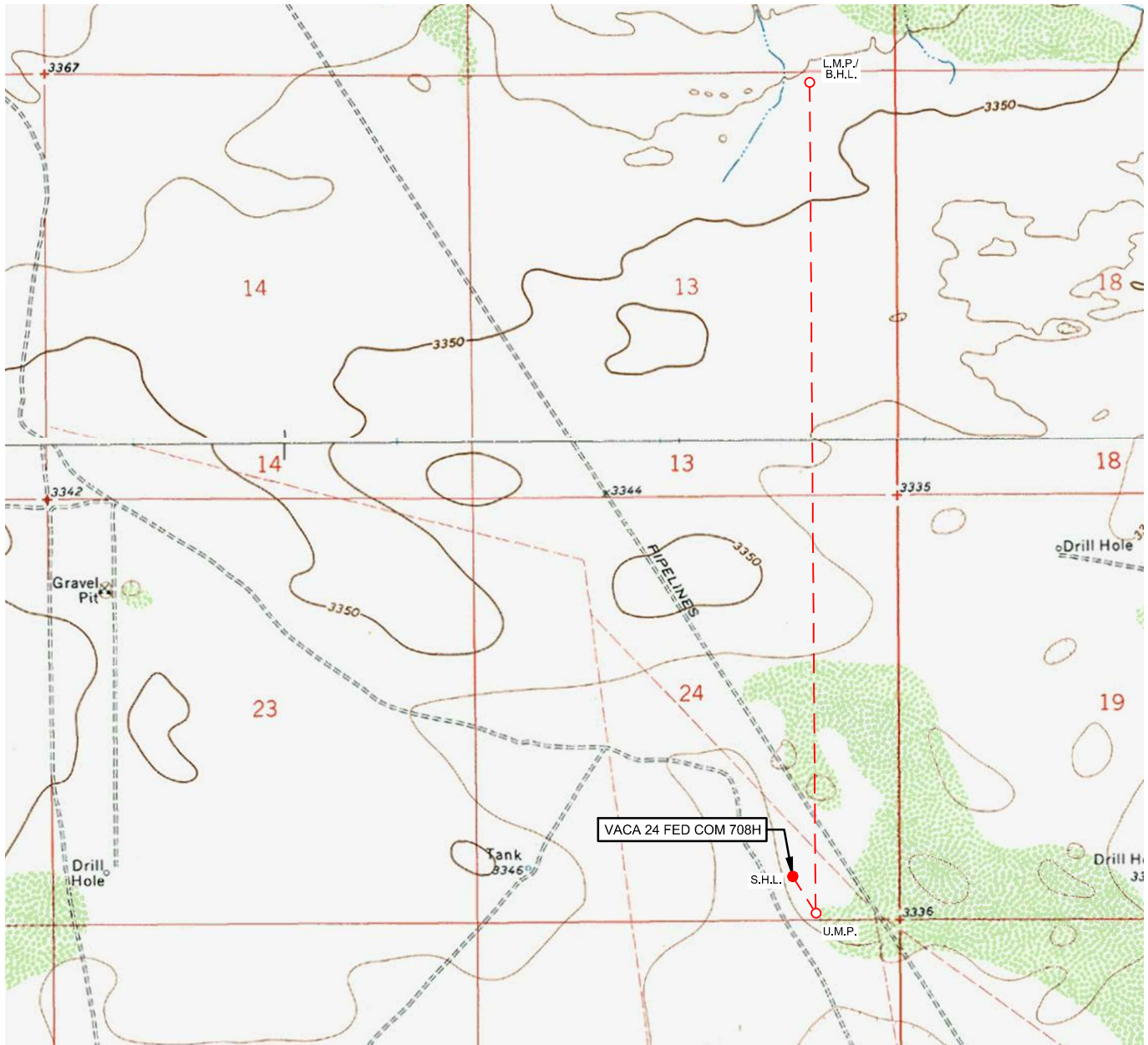
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|-----------|-------------|-------------|----------|---------------|------------------|---------------|----------------|------------|
| A | 13 | 25-S | 33-E | - | 100' | NORTH | 990' | EAST | LEA |

| | | | |
|---|-------------------------------|----------------------------------|-------------------------|
| ¹² Dedicated Acres 640 | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ¹⁵ Order No. |
|---|-------------------------------|----------------------------------|-------------------------|

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



LOCATION & ELEVATION VERIFICATION MAP

LEASE NAME & WELL NO.: VACA 24 FED COM 708H

SECTION 24 TWP 25-S RGE 33-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM ELEVATION 3331'
 DESCRIPTION 556' FSL & 1271' FEL

LATITUDE N 32.1102909 LONGITUDE W 103.5216286

SCALE: 1" = 2000'
 0' 1000' 2000'

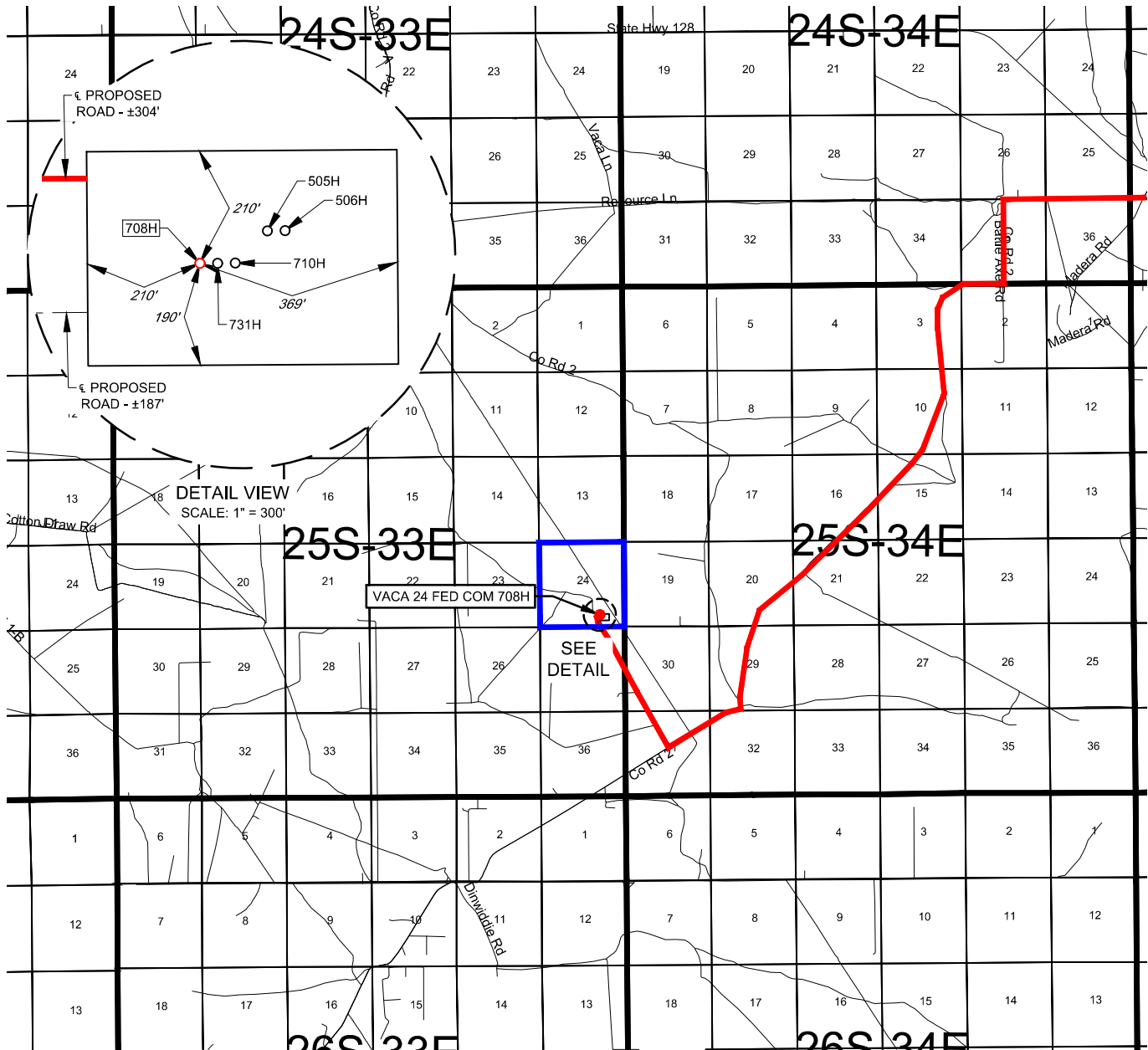
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.



TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM

EXHIBIT 2
VICINITY MAPLEASE NAME & WELL NO.: VACA 24 FED COM 708HSECTION 24 TWP 25-S RGE 33-E SURVEY N.M.P.M.COUNTY LEA STATE NMDESCRIPTION 556' FSL & 1271' FEL

DISTANCE & DIRECTION

FROM INT. OF NM-18 N. & NM-128. GO WEST ON NM-128 ± 14.1 MILES.
 THENCE SOUTHWEST (LEFT) ON BATTLE AXE RD. ± 10.4 MILES, THENCE
 NORTHWEST (RIGHT) ON LEASE RD. ± 1.8 MILES, THENCE EAST (RIGHT)
 ON A PROPOSED RD. ± 304 FEET TO A POINT ± 264 FEET NORTHWEST OF
 THE LOCATION.

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY
 SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA
 PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR
 ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS
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ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW
 MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.



SCALE: 1" = 10000'
 0' 5000' 10000'



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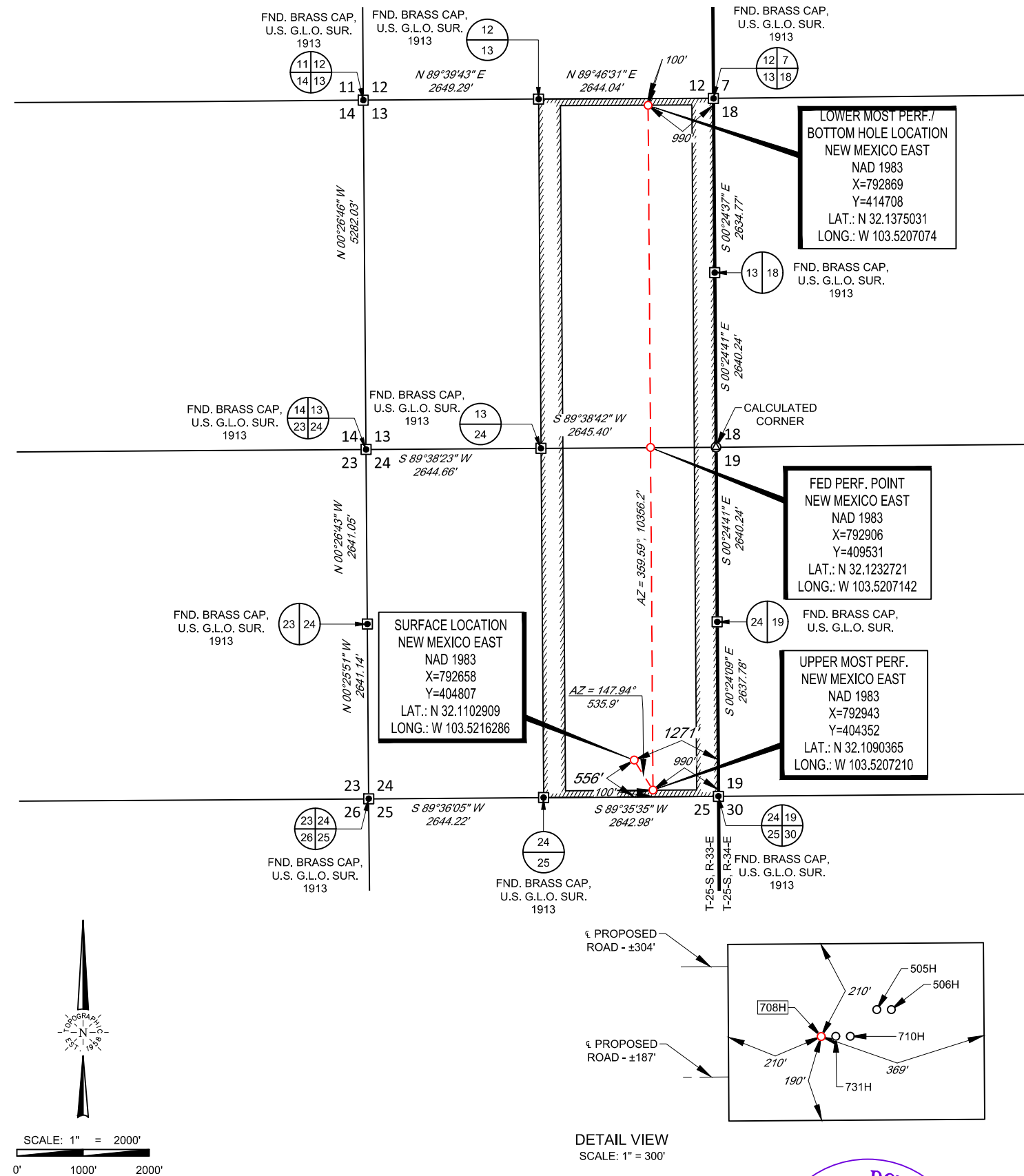
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743

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EXHIBIT 2A

SECTION 24, TOWNSHIP 25-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



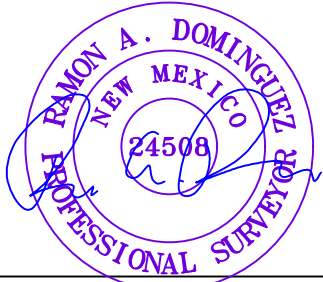
LEASE NAME & WELL NO.: _____ VACA 24 FED COM 708H

SECTION 24 TWP 25-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 556' FSL & 1271' FEL

DISTANCE & DIRECTION
FROM INT. OF NM-18 N. & NM-128. GO WEST ON NM-128 ±14.1 MILES.
THENCE SOUTHWEST (LEFT) ON BATTLE AXE RD. ±10.4 MILES. THENCE
NORTHWEST (RIGHT) ON LEASE RD. ±1.8 MILES, THENCE EAST (RIGHT)
ON A PROPOSED RD. ±304 FEET TO A POINT ±264 FEET NORTHWEST OF
THE LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID
BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY
FEET.

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND
UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF
SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED
TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE.
THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



Ramon A. Dominguez, P.S. No. 24508
December 14, 2020

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
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EXHIBIT 2B

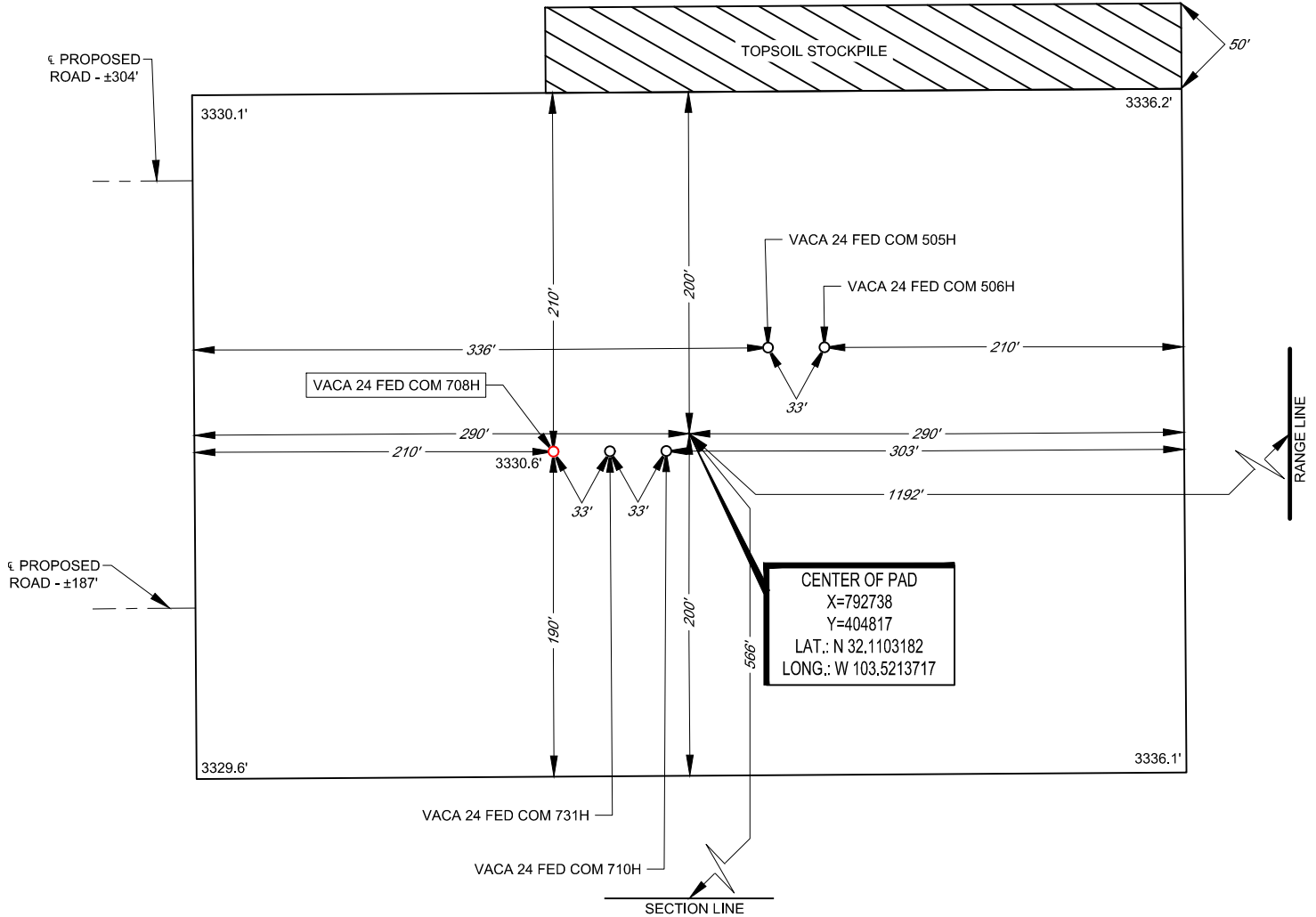


LEGEND

— SECTION LINE
 --- PROPOSED ROAD

SECTION 24, TOWNSHIP 25-S, RANGE 33-E, N.M.P.M.
 LEA COUNTY, NEW MEXICO

DETAIL VIEW
 SCALE: 1" = 100'



LEASE NAME & WELL NO.: VACA 24 FED COM 708H

708H LATITUDE N 32.1102909 708H LONGITUDE W 103.5216286

CENTER OF PAD IS 566' FSL & 1192' FEL



Ramon A. Dominguez, P.S. No. 24508

DECEMBER 14, 2020

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO. ALL OTHER INFORMATION WAS INTENTIONALLY OMITTED. THIS PLAT IS ONLY INTENDED TO BE USED FOR A PERMIT AND IS NOT A BOUNDARY SURVEY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"

SCALE: 1" = 100'
 0' 50' 100'



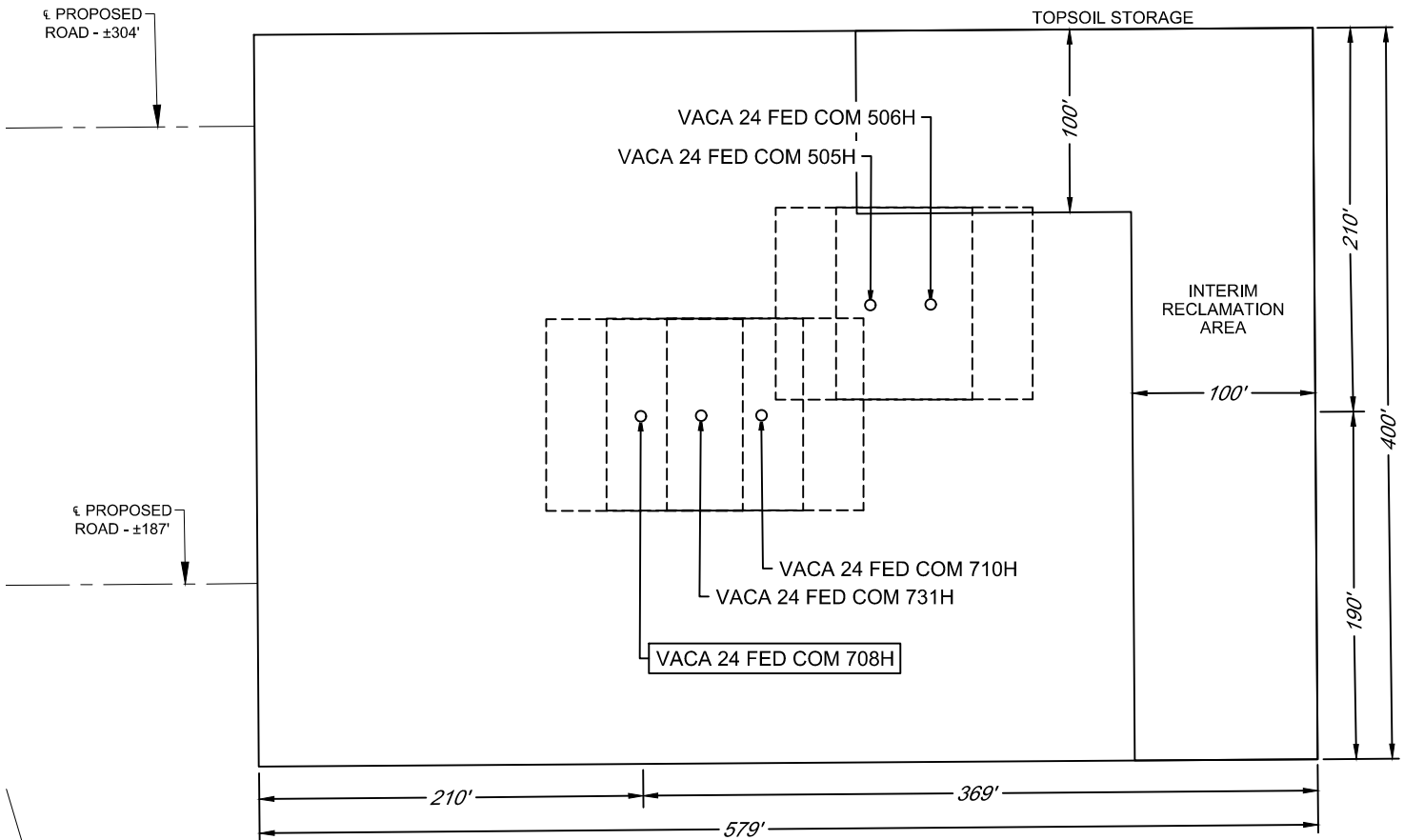
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EXHIBIT 2C

RECLAMATION AND FACILITY DIAGRAM - PRODUCTION FACILITIES DIAGRAM

SECTION 24, TOWNSHIP 25-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

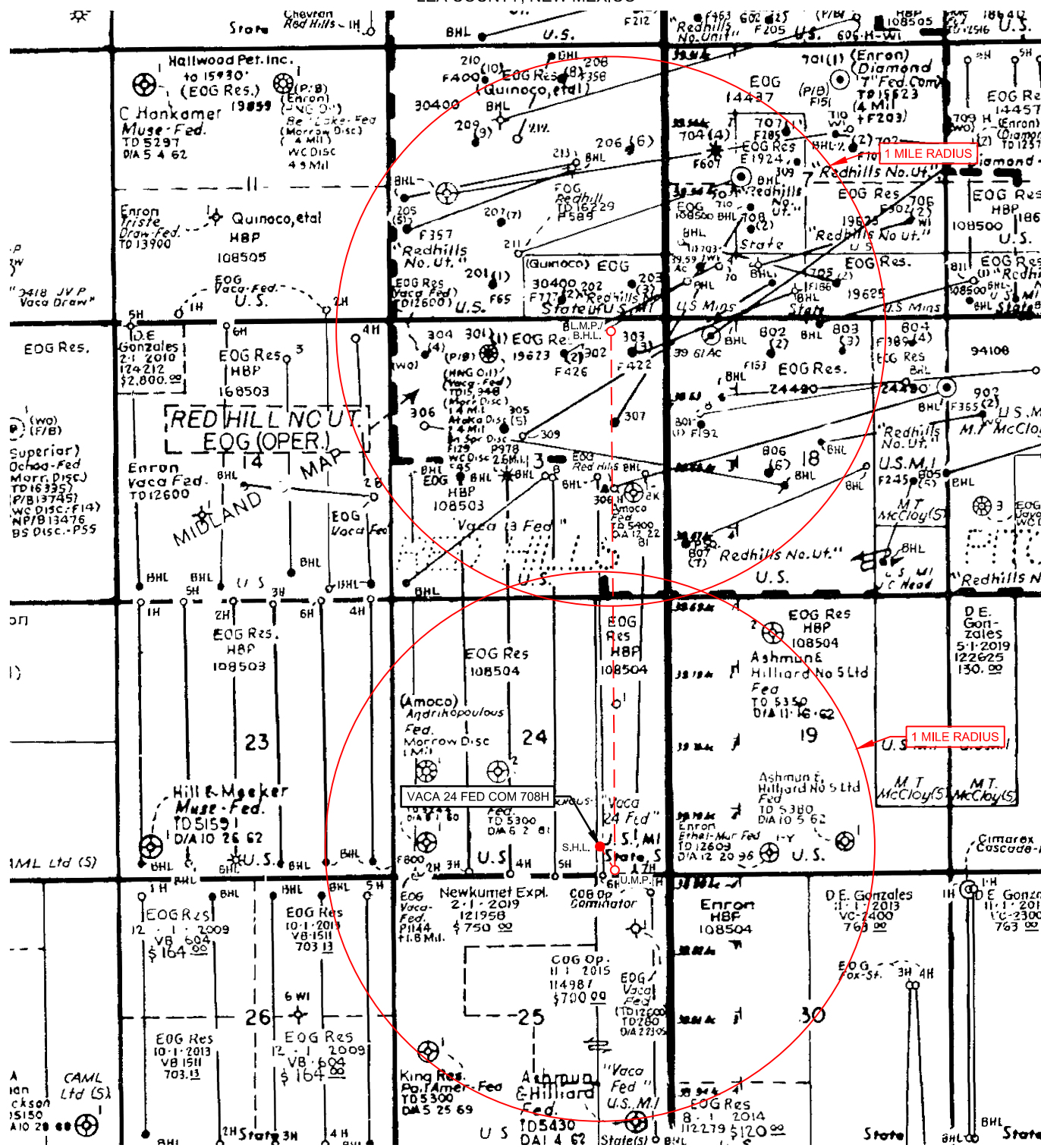
DETAIL VIEW
SCALE: 1" = 100'



LEASE NAME & WELL NO.: VACA 24 FED COM 708H
708H LATITUDE N 32.1102909 708H LONGITUDE W 103.5216286

EXHIBIT 3

SECTION 24, TOWNSHIP 25-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO. VACA 24 FED COM 708H

708H LATITUDE N 32.1102909

708H LONGITUDE W 103.5216286

SCALE: NTS

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.

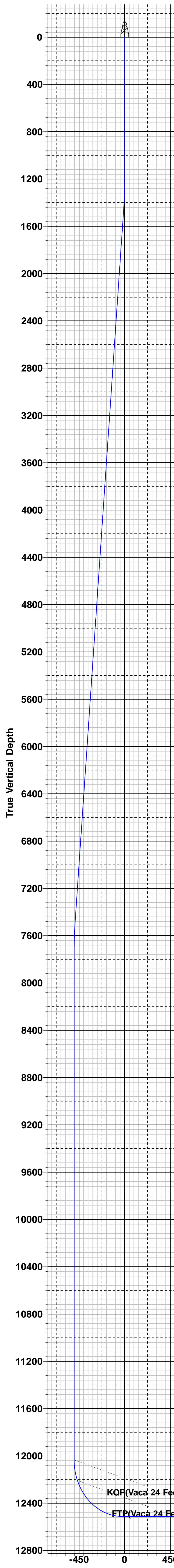
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



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WWW.TOPOGRAPHIC.COM

S:\SURVEY\EOG MIDLAND\VACA 24\FINAL PRODUCTS\LO VACA 24 FED COM 708H REV1.DWG 12/15/2020 10:02:49 AM rdominguez



To convert a Magnetic Direction to a Grid Direction, Add 6.24°
To convert a Magnetic Direction to a True Direction, Add 6.67° East
To convert a True Direction to a Grid Direction, Subtract 0.43°

| WELL DETAILS: #708H | | | | |
|------------------------------|-----------|-----------------|-------------------|--|
| KB = 26' @ 3357.0usft 3331.0 | | | | |
| Northing | Easting | Latitude | Longitude | |
| 404807.00 | 792658.00 | 32° 6' 37.052 N | 103° 31' 17.866 W | |

| SECTION DETAILS | | | | | | | | | | |
|-----------------|---------|-------|--------|---------|--------|-------|-------|--------|--------|-----------------------------|
| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect | Target |
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 1200.0 | 0.00 | 0.00 | 1200.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 1464.0 | 5.28 | 150.56 | 1463.6 | -10.6 | 6.0 | 2.00 | 150.56 | -10.5 | |
| 4 | 7501.4 | 5.28 | 150.56 | 7475.4 | -494.4 | 279.0 | 0.00 | 0.00 | -488.4 | |
| 5 | 7765.4 | 0.00 | 0.00 | 7739.0 | -505.0 | 285.0 | 2.00 | 180.00 | -498.8 | |
| 6 | 12060.9 | 0.00 | 0.00 | 12034.5 | -505.0 | 285.0 | 0.00 | 0.00 | -498.8 | KOP(Vaca 24 Fed Com #708H) |
| 7 | 12811.7 | 90.10 | 359.59 | 12512.0 | -26.7 | 281.6 | 12.00 | 359.59 | -20.7 | |
| 8 | 22739.7 | 90.10 | 359.59 | 12495.0 | 9901.0 | 211.0 | 0.00 | 0.00 | 9903.2 | PBHL(Vaca 24 Fed Com #708H) |

| CASING DETAILS |
|-----------------------------|
| No casing data is available |

| WELLBORE TARGET DETAILS (MAP CO-ORDINATES) | | | | | |
|--|---------|--------|-------|-----------|-----------|
| Name | TVD | +N/-S | +E/-W | Northing | Easting |
| KOP(Vaca 24 Fed Com #708H) | 12034.5 | -505.0 | 285.0 | 404302.00 | 792943.00 |
| PBHL(Vaca 24 Fed Com #708H) | 12495.0 | 9901.0 | 211.0 | 414708.00 | 792869.00 |
| FTP(Vaca 24 Fed Com #708H) | 12213.2 | -455.0 | 285.0 | 404352.00 | 792943.00 |

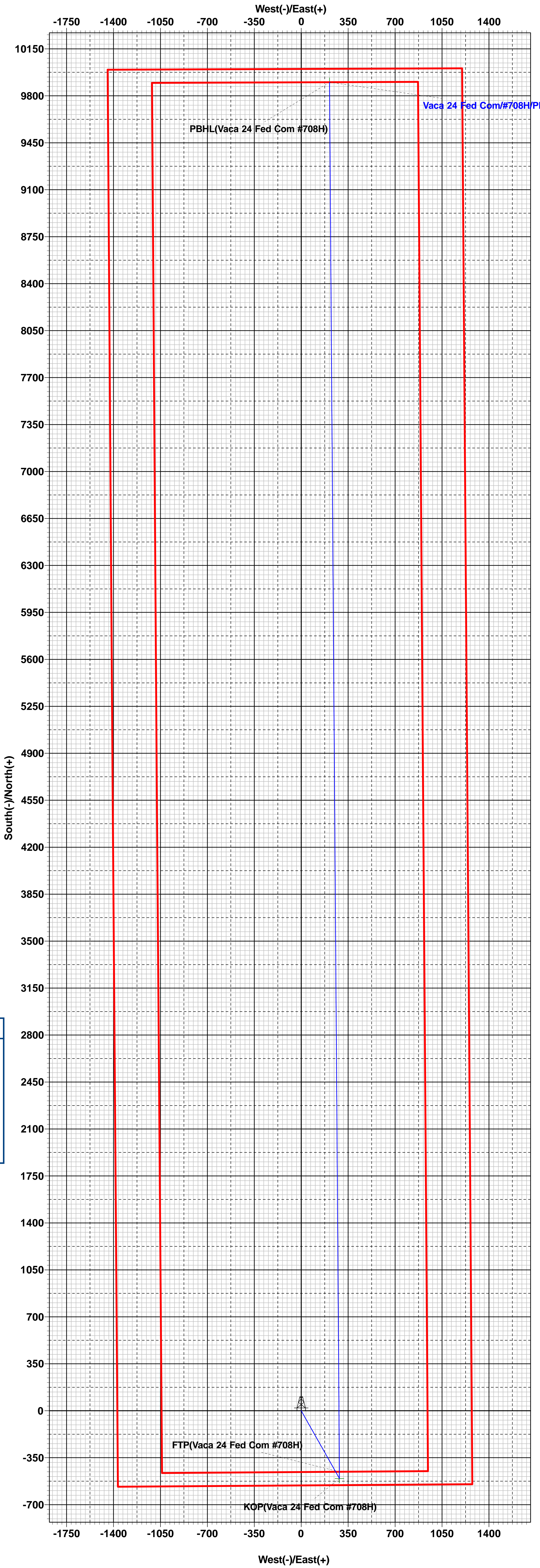
Lea County, NM (NAD 83 NME)

Vaca 24 Fed Com #708H

Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Vaca 24 Fed Com

#708H

OH

Plan: Plan #0.1

Standard Planning Report

06 January, 2021

EOG Resources

Planning Report



| | | | |
|------------------|-----------------------------|-------------------------------------|-----------------------|
| Database: | EDM | Local Co-ordinate Reference: | Well #708H |
| Company: | EOG Resources - Midland | TVD Reference: | KB = 26' @ 3357.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | KB = 26' @ 3357.0usft |
| Site: | Vaca 24 Fed Com | North Reference: | Grid |
| Well: | #708H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #0.1 | | |

| | | | |
|--------------------|-----------------------------|----------------------|----------------|
| Project | Lea County, NM (NAD 83 NME) | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | New Mexico Eastern Zone | | |

| Site | | Vaca 24 Fed Com | | | |
|-----------------------|----------|-----------------|-----------------|-------------------|-------------------|
| Site Position: | | Northing: | 404,270.00 usft | Latitude: | 32° 6' 31.982 N |
| From: | Map | Easting: | 789,366.00 usft | Longitude: | 103° 31' 56.186 W |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13-3/16 " | Grid Convergence: | 0.43 ° |

| Well | #708H | | | | | |
|----------------------|-------|--------------|---------------------|-----------------|---------------|-------------------|
| Well Position | +N/-S | 537.0 usft | Northing: | 404,807.00 usft | Latitude: | 32° 6' 37.052 N |
| | +E/-W | 3,292.0 usft | Easting: | 792,658.00 usft | Longitude: | 103° 31' 17.866 W |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: | | Ground Level: | 3,331.0 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2015 | 10/2/2019 | 6.67 | 59.94 | 47,640.95587659 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| Design | Plan #0.1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | 0.0 | 0.0 | 0.0 | 1.22 |

| | | | | |
|---------------------------------|------------------------|--------------------------|------------------|---------------------|
| Plan Survey Tool Program | Date | 1/6/2021 | | |
| Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks |
| 1 | 0.0 | 22,739.7 | Plan #0.1 (OH) | MWD |
| | | | | OWSG MWD - Standard |

| | | | | | | | | | | |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|-------------------------------|------------------------------|----------------|--------------------|
| Plan Sections | | | | | | | | | | |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,200.0 | 0.00 | 0.00 | 1,200.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,464.0 | 5.28 | 150.56 | 1,463.6 | -10.6 | 6.0 | 2.00 | 2.00 | 0.00 | 150.56 | |
| 7,501.4 | 5.28 | 150.56 | 7,475.4 | -494.4 | 279.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,765.4 | 0.00 | 0.00 | 7,739.0 | -505.0 | 285.0 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 12,060.9 | 0.00 | 0.00 | 12,034.5 | -505.0 | 285.0 | 0.00 | 0.00 | 0.00 | 0.00 | KOP(Vaca 24 Fed Co |
| 12,811.7 | 90.10 | 359.59 | 12,512.0 | -26.7 | 281.6 | 12.00 | 12.00 | -0.05 | 359.59 | |
| 22,739.7 | 90.10 | 359.59 | 12,495.0 | 9,901.0 | 211.0 | 0.00 | 0.00 | 0.00 | 0.00 | PBHL(Vaca 24 Fed C |

EOG Resources

Planning Report



| | | | |
|-----------|-----------------------------|------------------------------|-----------------------|
| Database: | EDM | Local Co-ordinate Reference: | Well #708H |
| Company: | EOG Resources - Midland | TVD Reference: | KB = 26' @ 3357.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | KB = 26' @ 3357.0usft |
| Site: | Vaca 24 Fed Com | North Reference: | Grid |
| Well: | #708H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #0.1 | | |

| Planned Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 800.0 | 0.00 | 0.00 | 800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 900.0 | 0.00 | 0.00 | 900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,100.0 | 0.00 | 0.00 | 1,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,200.0 | 0.00 | 0.00 | 1,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,300.0 | 2.00 | 150.56 | 1,300.0 | -1.5 | 0.9 | -1.5 | 2.00 | 2.00 | 0.00 |
| 1,400.0 | 4.00 | 150.56 | 1,399.8 | -6.1 | 3.4 | -6.0 | 2.00 | 2.00 | 0.00 |
| 1,464.0 | 5.28 | 150.56 | 1,463.6 | -10.6 | 6.0 | -10.5 | 2.00 | 2.00 | 0.00 |
| 1,500.0 | 5.28 | 150.56 | 1,499.5 | -13.5 | 7.6 | -13.3 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 5.28 | 150.56 | 1,599.0 | -21.5 | 12.1 | -21.2 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 5.28 | 150.56 | 1,698.6 | -29.5 | 16.6 | -29.1 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 5.28 | 150.56 | 1,798.2 | -37.5 | 21.2 | -37.1 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 5.28 | 150.56 | 1,897.8 | -45.5 | 25.7 | -45.0 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 5.28 | 150.56 | 1,997.4 | -53.5 | 30.2 | -52.9 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 5.28 | 150.56 | 2,096.9 | -61.6 | 34.7 | -60.8 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 5.28 | 150.56 | 2,196.5 | -69.6 | 39.3 | -68.7 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 5.28 | 150.56 | 2,296.1 | -77.6 | 43.8 | -76.6 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 5.28 | 150.56 | 2,395.7 | -85.6 | 48.3 | -84.5 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 5.28 | 150.56 | 2,495.2 | -93.6 | 52.8 | -92.5 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 5.28 | 150.56 | 2,594.8 | -101.6 | 57.4 | -100.4 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 5.28 | 150.56 | 2,694.4 | -109.6 | 61.9 | -108.3 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 5.28 | 150.56 | 2,794.0 | -117.7 | 66.4 | -116.2 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 5.28 | 150.56 | 2,893.5 | -125.7 | 70.9 | -124.1 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 5.28 | 150.56 | 2,993.1 | -133.7 | 75.4 | -132.0 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 5.28 | 150.56 | 3,092.7 | -141.7 | 80.0 | -140.0 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 5.28 | 150.56 | 3,192.3 | -149.7 | 84.5 | -147.9 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 5.28 | 150.56 | 3,291.8 | -157.7 | 89.0 | -155.8 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 5.28 | 150.56 | 3,391.4 | -165.7 | 93.5 | -163.7 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 5.28 | 150.56 | 3,491.0 | -173.7 | 98.1 | -171.6 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 5.28 | 150.56 | 3,590.6 | -181.8 | 102.6 | -179.5 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 5.28 | 150.56 | 3,690.1 | -189.8 | 107.1 | -187.5 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 5.28 | 150.56 | 3,789.7 | -197.8 | 111.6 | -195.4 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 5.28 | 150.56 | 3,889.3 | -205.8 | 116.1 | -203.3 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 5.28 | 150.56 | 3,988.9 | -213.8 | 120.7 | -211.2 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 5.28 | 150.56 | 4,088.4 | -221.8 | 125.2 | -219.1 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 5.28 | 150.56 | 4,188.0 | -229.8 | 129.7 | -227.0 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 5.28 | 150.56 | 4,287.6 | -237.9 | 134.2 | -234.9 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 5.28 | 150.56 | 4,387.2 | -245.9 | 138.8 | -242.9 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 5.28 | 150.56 | 4,486.7 | -253.9 | 143.3 | -250.8 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 5.28 | 150.56 | 4,586.3 | -261.9 | 147.8 | -258.7 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 5.28 | 150.56 | 4,685.9 | -269.9 | 152.3 | -266.6 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 5.28 | 150.56 | 4,785.5 | -277.9 | 156.9 | -274.5 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 5.28 | 150.56 | 4,885.0 | -285.9 | 161.4 | -282.4 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 5.28 | 150.56 | 4,984.6 | -294.0 | 165.9 | -290.4 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 5.28 | 150.56 | 5,084.2 | -302.0 | 170.4 | -298.3 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 5.28 | 150.56 | 5,183.8 | -310.0 | 174.9 | -306.2 | 0.00 | 0.00 | 0.00 |

EOG Resources

Planning Report



| | | | |
|------------------|-----------------------------|-------------------------------------|-----------------------|
| Database: | EDM | Local Co-ordinate Reference: | Well #708H |
| Company: | EOG Resources - Midland | TVD Reference: | KB = 26' @ 3357.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | KB = 26' @ 3357.0usft |
| Site: | Vaca 24 Fed Com | North Reference: | Grid |
| Well: | #708H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #0.1 | | |

| Planned Survey | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 5,300.0 | 5.28 | 150.56 | 5,283.4 | -318.0 | 179.5 | -314.1 | 0.00 | 0.00 | 0.00 | |
| 5,400.0 | 5.28 | 150.56 | 5,382.9 | -326.0 | 184.0 | -322.0 | 0.00 | 0.00 | 0.00 | |
| 5,500.0 | 5.28 | 150.56 | 5,482.5 | -334.0 | 188.5 | -329.9 | 0.00 | 0.00 | 0.00 | |
| 5,600.0 | 5.28 | 150.56 | 5,582.1 | -342.0 | 193.0 | -337.9 | 0.00 | 0.00 | 0.00 | |
| 5,700.0 | 5.28 | 150.56 | 5,681.7 | -350.1 | 197.6 | -345.8 | 0.00 | 0.00 | 0.00 | |
| 5,800.0 | 5.28 | 150.56 | 5,781.2 | -358.1 | 202.1 | -353.7 | 0.00 | 0.00 | 0.00 | |
| 5,900.0 | 5.28 | 150.56 | 5,880.8 | -366.1 | 206.6 | -361.6 | 0.00 | 0.00 | 0.00 | |
| 6,000.0 | 5.28 | 150.56 | 5,980.4 | -374.1 | 211.1 | -369.5 | 0.00 | 0.00 | 0.00 | |
| 6,100.0 | 5.28 | 150.56 | 6,080.0 | -382.1 | 215.6 | -377.4 | 0.00 | 0.00 | 0.00 | |
| 6,200.0 | 5.28 | 150.56 | 6,179.5 | -390.1 | 220.2 | -385.3 | 0.00 | 0.00 | 0.00 | |
| 6,300.0 | 5.28 | 150.56 | 6,279.1 | -398.1 | 224.7 | -393.3 | 0.00 | 0.00 | 0.00 | |
| 6,400.0 | 5.28 | 150.56 | 6,378.7 | -406.2 | 229.2 | -401.2 | 0.00 | 0.00 | 0.00 | |
| 6,500.0 | 5.28 | 150.56 | 6,478.3 | -414.2 | 233.7 | -409.1 | 0.00 | 0.00 | 0.00 | |
| 6,600.0 | 5.28 | 150.56 | 6,577.8 | -422.2 | 238.3 | -417.0 | 0.00 | 0.00 | 0.00 | |
| 6,700.0 | 5.28 | 150.56 | 6,677.4 | -430.2 | 242.8 | -424.9 | 0.00 | 0.00 | 0.00 | |
| 6,800.0 | 5.28 | 150.56 | 6,777.0 | -438.2 | 247.3 | -432.8 | 0.00 | 0.00 | 0.00 | |
| 6,900.0 | 5.28 | 150.56 | 6,876.6 | -446.2 | 251.8 | -440.8 | 0.00 | 0.00 | 0.00 | |
| 7,000.0 | 5.28 | 150.56 | 6,976.1 | -454.2 | 256.4 | -448.7 | 0.00 | 0.00 | 0.00 | |
| 7,100.0 | 5.28 | 150.56 | 7,075.7 | -462.2 | 260.9 | -456.6 | 0.00 | 0.00 | 0.00 | |
| 7,200.0 | 5.28 | 150.56 | 7,175.3 | -470.3 | 265.4 | -464.5 | 0.00 | 0.00 | 0.00 | |
| 7,300.0 | 5.28 | 150.56 | 7,274.9 | -478.3 | 269.9 | -472.4 | 0.00 | 0.00 | 0.00 | |
| 7,400.0 | 5.28 | 150.56 | 7,374.4 | -486.3 | 274.4 | -480.3 | 0.00 | 0.00 | 0.00 | |
| 7,501.4 | 5.28 | 150.56 | 7,475.4 | -494.4 | 279.0 | -488.4 | 0.00 | 0.00 | 0.00 | |
| 7,600.0 | 3.31 | 150.56 | 7,573.7 | -500.8 | 282.7 | -494.7 | 2.00 | -2.00 | 0.00 | |
| 7,700.0 | 1.31 | 150.56 | 7,673.6 | -504.4 | 284.6 | -498.2 | 2.00 | -2.00 | 0.00 | |
| 7,765.4 | 0.00 | 0.00 | 7,739.0 | -505.0 | 285.0 | -498.8 | 2.00 | -2.00 | 0.00 | |
| 7,800.0 | 0.00 | 0.00 | 7,773.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 7,900.0 | 0.00 | 0.00 | 7,873.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 8,000.0 | 0.00 | 0.00 | 7,973.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 8,100.0 | 0.00 | 0.00 | 8,073.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 8,200.0 | 0.00 | 0.00 | 8,173.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 8,300.0 | 0.00 | 0.00 | 8,273.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 8,400.0 | 0.00 | 0.00 | 8,373.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 8,500.0 | 0.00 | 0.00 | 8,473.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 8,600.0 | 0.00 | 0.00 | 8,573.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 8,700.0 | 0.00 | 0.00 | 8,673.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 8,800.0 | 0.00 | 0.00 | 8,773.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 8,900.0 | 0.00 | 0.00 | 8,873.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 9,000.0 | 0.00 | 0.00 | 8,973.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 9,100.0 | 0.00 | 0.00 | 9,073.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 9,200.0 | 0.00 | 0.00 | 9,173.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 9,300.0 | 0.00 | 0.00 | 9,273.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 9,400.0 | 0.00 | 0.00 | 9,373.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 9,500.0 | 0.00 | 0.00 | 9,473.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 9,600.0 | 0.00 | 0.00 | 9,573.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 9,700.0 | 0.00 | 0.00 | 9,673.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 9,800.0 | 0.00 | 0.00 | 9,773.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 9,900.0 | 0.00 | 0.00 | 9,873.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 10,000.0 | 0.00 | 0.00 | 9,973.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 10,100.0 | 0.00 | 0.00 | 10,073.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 10,200.0 | 0.00 | 0.00 | 10,173.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 10,300.0 | 0.00 | 0.00 | 10,273.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 10,400.0 | 0.00 | 0.00 | 10,373.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |
| 10,500.0 | 0.00 | 0.00 | 10,473.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 | |

EOG Resources

Planning Report



| | | | |
|------------------|-----------------------------|-------------------------------------|-----------------------|
| Database: | EDM | Local Co-ordinate Reference: | Well #708H |
| Company: | EOG Resources - Midland | TVD Reference: | KB = 26' @ 3357.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | KB = 26' @ 3357.0usft |
| Site: | Vaca 24 Fed Com | North Reference: | Grid |
| Well: | #708H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #0.1 | | |

| Planned Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 10,600.0 | 0.00 | 0.00 | 10,573.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 0.00 | 0.00 | 10,673.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 0.00 | 0.00 | 10,773.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | 0.00 | 0.00 | 10,873.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 0.00 | 0.00 | 10,973.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 0.00 | 0.00 | 11,073.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | 0.00 | 0.00 | 11,173.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | 0.00 | 0.00 | 11,273.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 |
| 11,400.0 | 0.00 | 0.00 | 11,373.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 |
| 11,500.0 | 0.00 | 0.00 | 11,473.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 |
| 11,600.0 | 0.00 | 0.00 | 11,573.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 |
| 11,700.0 | 0.00 | 0.00 | 11,673.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 |
| 11,800.0 | 0.00 | 0.00 | 11,773.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 |
| 11,900.0 | 0.00 | 0.00 | 11,873.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 |
| 12,000.0 | 0.00 | 0.00 | 11,973.6 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 |
| 12,060.9 | 0.00 | 0.00 | 12,034.5 | -505.0 | 285.0 | -498.8 | 0.00 | 0.00 | 0.00 |
| 12,075.0 | 1.70 | 359.59 | 12,048.6 | -504.8 | 285.0 | -498.6 | 12.00 | 12.00 | 0.00 |
| 12,100.0 | 4.70 | 359.59 | 12,073.6 | -503.4 | 285.0 | -497.2 | 12.00 | 12.00 | 0.00 |
| 12,125.0 | 7.70 | 359.59 | 12,098.4 | -500.7 | 285.0 | -494.5 | 12.00 | 12.00 | 0.00 |
| 12,150.0 | 10.70 | 359.59 | 12,123.1 | -496.7 | 284.9 | -490.5 | 12.00 | 12.00 | 0.00 |
| 12,175.0 | 13.70 | 359.59 | 12,147.6 | -491.4 | 284.9 | -485.2 | 12.00 | 12.00 | 0.00 |
| 12,200.0 | 16.70 | 359.59 | 12,171.7 | -484.9 | 284.9 | -478.7 | 12.00 | 12.00 | 0.00 |
| 12,225.0 | 19.70 | 359.59 | 12,195.4 | -477.1 | 284.8 | -470.9 | 12.00 | 12.00 | 0.00 |
| 12,250.0 | 22.70 | 359.59 | 12,218.7 | -468.0 | 284.7 | -461.9 | 12.00 | 12.00 | 0.00 |
| 12,275.0 | 25.70 | 359.59 | 12,241.5 | -457.8 | 284.7 | -451.6 | 12.00 | 12.00 | 0.00 |
| 12,300.0 | 28.70 | 359.59 | 12,263.8 | -446.4 | 284.6 | -440.2 | 12.00 | 12.00 | 0.00 |
| 12,325.0 | 31.70 | 359.59 | 12,285.4 | -433.8 | 284.5 | -427.6 | 12.00 | 12.00 | 0.00 |
| 12,350.0 | 34.70 | 359.59 | 12,306.3 | -420.1 | 284.4 | -413.9 | 12.00 | 12.00 | 0.00 |
| 12,375.0 | 37.70 | 359.59 | 12,326.5 | -405.3 | 284.3 | -399.2 | 12.00 | 12.00 | 0.00 |
| 12,400.0 | 40.70 | 359.59 | 12,345.8 | -389.5 | 284.2 | -383.4 | 12.00 | 12.00 | 0.00 |
| 12,425.0 | 43.70 | 359.59 | 12,364.4 | -372.8 | 284.1 | -366.6 | 12.00 | 12.00 | 0.00 |
| 12,450.0 | 46.70 | 359.59 | 12,382.0 | -355.0 | 283.9 | -348.9 | 12.00 | 12.00 | 0.00 |
| 12,475.0 | 49.70 | 359.59 | 12,398.6 | -336.4 | 283.8 | -330.3 | 12.00 | 12.00 | 0.00 |
| 12,500.0 | 52.70 | 359.59 | 12,414.3 | -316.9 | 283.7 | -310.8 | 12.00 | 12.00 | 0.00 |
| 12,525.0 | 55.70 | 359.59 | 12,428.9 | -296.6 | 283.5 | -290.5 | 12.00 | 12.00 | 0.00 |
| 12,550.0 | 58.70 | 359.59 | 12,442.5 | -275.6 | 283.4 | -269.5 | 12.00 | 12.00 | 0.00 |
| 12,575.0 | 61.70 | 359.59 | 12,454.9 | -253.9 | 283.2 | -247.8 | 12.00 | 12.00 | 0.00 |
| 12,600.0 | 64.70 | 359.59 | 12,466.2 | -231.6 | 283.1 | -225.5 | 12.00 | 12.00 | 0.00 |
| 12,625.0 | 67.70 | 359.59 | 12,476.2 | -208.7 | 282.9 | -202.7 | 12.00 | 12.00 | 0.00 |
| 12,650.0 | 70.70 | 359.59 | 12,485.1 | -185.4 | 282.7 | -179.3 | 12.00 | 12.00 | 0.00 |
| 12,675.0 | 73.70 | 359.59 | 12,492.8 | -161.6 | 282.6 | -155.5 | 12.00 | 12.00 | 0.00 |
| 12,700.0 | 76.70 | 359.59 | 12,499.2 | -137.4 | 282.4 | -131.4 | 12.00 | 12.00 | 0.00 |
| 12,725.0 | 79.70 | 359.59 | 12,504.3 | -112.9 | 282.2 | -106.9 | 12.00 | 12.00 | 0.00 |
| 12,750.0 | 82.70 | 359.59 | 12,508.1 | -88.2 | 282.0 | -82.2 | 12.00 | 12.00 | 0.00 |
| 12,775.0 | 85.70 | 359.59 | 12,510.6 | -63.4 | 281.9 | -57.4 | 12.00 | 12.00 | 0.00 |
| 12,800.0 | 88.70 | 359.59 | 12,511.8 | -38.4 | 281.7 | -32.4 | 12.00 | 12.00 | 0.00 |
| 12,811.7 | 90.10 | 359.59 | 12,512.0 | -26.7 | 281.6 | -20.7 | 12.00 | 12.00 | 0.00 |
| 12,900.0 | 90.10 | 359.59 | 12,511.8 | 61.6 | 281.0 | 67.6 | 0.00 | 0.00 | 0.00 |
| 13,000.0 | 90.10 | 359.59 | 12,511.6 | 161.6 | 280.3 | 167.5 | 0.00 | 0.00 | 0.00 |
| 13,100.0 | 90.10 | 359.59 | 12,511.5 | 261.6 | 279.5 | 267.5 | 0.00 | 0.00 | 0.00 |
| 13,200.0 | 90.10 | 359.59 | 12,511.3 | 361.6 | 278.8 | 367.4 | 0.00 | 0.00 | 0.00 |
| 13,300.0 | 90.10 | 359.59 | 12,511.1 | 461.6 | 278.1 | 467.4 | 0.00 | 0.00 | 0.00 |
| 13,400.0 | 90.10 | 359.59 | 12,511.0 | 561.6 | 277.4 | 567.4 | 0.00 | 0.00 | 0.00 |
| 13,500.0 | 90.10 | 359.59 | 12,510.8 | 661.6 | 276.7 | 667.3 | 0.00 | 0.00 | 0.00 |

EOG Resources

Planning Report



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|------------------|-----------------------------|-------------------------------------|-----------------------|
| Database: | EDM | Local Co-ordinate Reference: | Well #708H |
| Company: | EOG Resources - Midland | TVD Reference: | KB = 26' @ 3357.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | KB = 26' @ 3357.0usft |
| Site: | Vaca 24 Fed Com | North Reference: | Grid |
| Well: | #708H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #0.1 | | |

| Planned Survey | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 13,600.0 | 90.10 | 359.59 | 12,510.6 | 761.6 | 276.0 | 767.3 | 0.00 | 0.00 | 0.00 | |
| 13,700.0 | 90.10 | 359.59 | 12,510.4 | 861.6 | 275.3 | 867.2 | 0.00 | 0.00 | 0.00 | |
| 13,800.0 | 90.10 | 359.59 | 12,510.3 | 961.6 | 274.6 | 967.2 | 0.00 | 0.00 | 0.00 | |
| 13,900.0 | 90.10 | 359.59 | 12,510.1 | 1,061.6 | 273.9 | 1,067.2 | 0.00 | 0.00 | 0.00 | |
| 14,000.0 | 90.10 | 359.59 | 12,509.9 | 1,161.6 | 273.1 | 1,167.1 | 0.00 | 0.00 | 0.00 | |
| 14,100.0 | 90.10 | 359.59 | 12,509.8 | 1,261.6 | 272.4 | 1,267.1 | 0.00 | 0.00 | 0.00 | |
| 14,200.0 | 90.10 | 359.59 | 12,509.6 | 1,361.6 | 271.7 | 1,367.0 | 0.00 | 0.00 | 0.00 | |
| 14,300.0 | 90.10 | 359.59 | 12,509.4 | 1,461.6 | 271.0 | 1,467.0 | 0.00 | 0.00 | 0.00 | |
| 14,400.0 | 90.10 | 359.59 | 12,509.2 | 1,561.5 | 270.3 | 1,567.0 | 0.00 | 0.00 | 0.00 | |
| 14,500.0 | 90.10 | 359.59 | 12,509.1 | 1,661.5 | 269.6 | 1,666.9 | 0.00 | 0.00 | 0.00 | |
| 14,600.0 | 90.10 | 359.59 | 12,508.9 | 1,761.5 | 268.9 | 1,766.9 | 0.00 | 0.00 | 0.00 | |
| 14,700.0 | 90.10 | 359.59 | 12,508.7 | 1,861.5 | 268.2 | 1,866.8 | 0.00 | 0.00 | 0.00 | |
| 14,800.0 | 90.10 | 359.59 | 12,508.6 | 1,961.5 | 267.5 | 1,966.8 | 0.00 | 0.00 | 0.00 | |
| 14,900.0 | 90.10 | 359.59 | 12,508.4 | 2,061.5 | 266.7 | 2,066.7 | 0.00 | 0.00 | 0.00 | |
| 15,000.0 | 90.10 | 359.59 | 12,508.2 | 2,161.5 | 266.0 | 2,166.7 | 0.00 | 0.00 | 0.00 | |
| 15,100.0 | 90.10 | 359.59 | 12,508.1 | 2,261.5 | 265.3 | 2,266.7 | 0.00 | 0.00 | 0.00 | |
| 15,200.0 | 90.10 | 359.59 | 12,507.9 | 2,361.5 | 264.6 | 2,366.6 | 0.00 | 0.00 | 0.00 | |
| 15,300.0 | 90.10 | 359.59 | 12,507.7 | 2,461.5 | 263.9 | 2,466.6 | 0.00 | 0.00 | 0.00 | |
| 15,400.0 | 90.10 | 359.59 | 12,507.5 | 2,561.5 | 263.2 | 2,566.5 | 0.00 | 0.00 | 0.00 | |
| 15,500.0 | 90.10 | 359.59 | 12,507.4 | 2,661.5 | 262.5 | 2,666.5 | 0.00 | 0.00 | 0.00 | |
| 15,600.0 | 90.10 | 359.59 | 12,507.2 | 2,761.5 | 261.8 | 2,766.5 | 0.00 | 0.00 | 0.00 | |
| 15,700.0 | 90.10 | 359.59 | 12,507.0 | 2,861.5 | 261.1 | 2,866.4 | 0.00 | 0.00 | 0.00 | |
| 15,800.0 | 90.10 | 359.59 | 12,506.9 | 2,961.5 | 260.3 | 2,966.4 | 0.00 | 0.00 | 0.00 | |
| 15,900.0 | 90.10 | 359.59 | 12,506.7 | 3,061.5 | 259.6 | 3,066.3 | 0.00 | 0.00 | 0.00 | |
| 16,000.0 | 90.10 | 359.59 | 12,506.5 | 3,161.5 | 258.9 | 3,166.3 | 0.00 | 0.00 | 0.00 | |
| 16,100.0 | 90.10 | 359.59 | 12,506.3 | 3,261.5 | 258.2 | 3,266.3 | 0.00 | 0.00 | 0.00 | |
| 16,200.0 | 90.10 | 359.59 | 12,506.2 | 3,361.5 | 257.5 | 3,366.2 | 0.00 | 0.00 | 0.00 | |
| 16,300.0 | 90.10 | 359.59 | 12,506.0 | 3,461.5 | 256.8 | 3,466.2 | 0.00 | 0.00 | 0.00 | |
| 16,400.0 | 90.10 | 359.59 | 12,505.8 | 3,561.5 | 256.1 | 3,566.1 | 0.00 | 0.00 | 0.00 | |
| 16,500.0 | 90.10 | 359.59 | 12,505.7 | 3,661.5 | 255.4 | 3,666.1 | 0.00 | 0.00 | 0.00 | |
| 16,600.0 | 90.10 | 359.59 | 12,505.5 | 3,761.5 | 254.7 | 3,766.1 | 0.00 | 0.00 | 0.00 | |
| 16,700.0 | 90.10 | 359.59 | 12,505.3 | 3,861.5 | 253.9 | 3,866.0 | 0.00 | 0.00 | 0.00 | |
| 16,800.0 | 90.10 | 359.59 | 12,505.1 | 3,961.5 | 253.2 | 3,966.0 | 0.00 | 0.00 | 0.00 | |
| 16,900.0 | 90.10 | 359.59 | 12,505.0 | 4,061.5 | 252.5 | 4,065.9 | 0.00 | 0.00 | 0.00 | |
| 17,000.0 | 90.10 | 359.59 | 12,504.8 | 4,161.5 | 251.8 | 4,165.9 | 0.00 | 0.00 | 0.00 | |
| 17,100.0 | 90.10 | 359.59 | 12,504.6 | 4,261.5 | 251.1 | 4,265.9 | 0.00 | 0.00 | 0.00 | |
| 17,200.0 | 90.10 | 359.59 | 12,504.5 | 4,361.5 | 250.4 | 4,365.8 | 0.00 | 0.00 | 0.00 | |
| 17,300.0 | 90.10 | 359.59 | 12,504.3 | 4,461.5 | 249.7 | 4,465.8 | 0.00 | 0.00 | 0.00 | |
| 17,400.0 | 90.10 | 359.59 | 12,504.1 | 4,561.5 | 249.0 | 4,565.7 | 0.00 | 0.00 | 0.00 | |
| 17,500.0 | 90.10 | 359.59 | 12,504.0 | 4,661.5 | 248.3 | 4,665.7 | 0.00 | 0.00 | 0.00 | |
| 17,600.0 | 90.10 | 359.59 | 12,503.8 | 4,761.5 | 247.5 | 4,765.7 | 0.00 | 0.00 | 0.00 | |
| 17,700.0 | 90.10 | 359.59 | 12,503.6 | 4,861.5 | 246.8 | 4,865.6 | 0.00 | 0.00 | 0.00 | |
| 17,800.0 | 90.10 | 359.59 | 12,503.4 | 4,961.5 | 246.1 | 4,965.6 | 0.00 | 0.00 | 0.00 | |
| 17,900.0 | 90.10 | 359.59 | 12,503.3 | 5,061.5 | 245.4 | 5,065.5 | 0.00 | 0.00 | 0.00 | |
| 18,000.0 | 90.10 | 359.59 | 12,503.1 | 5,161.5 | 244.7 | 5,165.5 | 0.00 | 0.00 | 0.00 | |
| 18,100.0 | 90.10 | 359.59 | 12,502.9 | 5,261.4 | 244.0 | 5,265.5 | 0.00 | 0.00 | 0.00 | |
| 18,200.0 | 90.10 | 359.59 | 12,502.8 | 5,361.4 | 243.3 | 5,365.4 | 0.00 | 0.00 | 0.00 | |
| 18,300.0 | 90.10 | 359.59 | 12,502.6 | 5,461.4 | 242.6 | 5,465.4 | 0.00 | 0.00 | 0.00 | |
| 18,400.0 | 90.10 | 359.59 | 12,502.4 | 5,561.4 | 241.9 | 5,565.3 | 0.00 | 0.00 | 0.00 | |
| 18,500.0 | 90.10 | 359.59 | 12,502.2 | 5,661.4 | 241.1 | 5,665.3 | 0.00 | 0.00 | 0.00 | |
| 18,600.0 | 90.10 | 359.59 | 12,502.1 | 5,761.4 | 240.4 | 5,765.3 | 0.00 | 0.00 | 0.00 | |
| 18,700.0 | 90.10 | 359.59 | 12,501.9 | 5,861.4 | 239.7 | 5,865.2 | 0.00 | 0.00 | 0.00 | |
| 18,800.0 | 90.10 | 359.59 | 12,501.7 | 5,961.4 | 239.0 | 5,965.2 | 0.00 | 0.00 | 0.00 | |
| 18,900.0 | 90.10 | 359.59 | 12,501.6 | 6,061.4 | 238.3 | 6,065.1 | 0.00 | 0.00 | 0.00 | |

EOG Resources

Planning Report



| | | | |
|------------------|-----------------------------|-------------------------------------|-----------------------|
| Database: | EDM | Local Co-ordinate Reference: | Well #708H |
| Company: | EOG Resources - Midland | TVD Reference: | KB = 26' @ 3357.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | KB = 26' @ 3357.0usft |
| Site: | Vaca 24 Fed Com | North Reference: | Grid |
| Well: | #708H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #0.1 | | |

| Planned Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 19,000.0 | 90.10 | 359.59 | 12,501.4 | 6,161.4 | 237.6 | 6,165.1 | 0.00 | 0.00 | 0.00 |
| 19,100.0 | 90.10 | 359.59 | 12,501.2 | 6,261.4 | 236.9 | 6,265.0 | 0.00 | 0.00 | 0.00 |
| 19,200.0 | 90.10 | 359.59 | 12,501.0 | 6,361.4 | 236.2 | 6,365.0 | 0.00 | 0.00 | 0.00 |
| 19,300.0 | 90.10 | 359.59 | 12,500.9 | 6,461.4 | 235.5 | 6,465.0 | 0.00 | 0.00 | 0.00 |
| 19,400.0 | 90.10 | 359.59 | 12,500.7 | 6,561.4 | 234.7 | 6,564.9 | 0.00 | 0.00 | 0.00 |
| 19,500.0 | 90.10 | 359.59 | 12,500.5 | 6,661.4 | 234.0 | 6,664.9 | 0.00 | 0.00 | 0.00 |
| 19,600.0 | 90.10 | 359.59 | 12,500.4 | 6,761.4 | 233.3 | 6,764.8 | 0.00 | 0.00 | 0.00 |
| 19,700.0 | 90.10 | 359.59 | 12,500.2 | 6,861.4 | 232.6 | 6,864.8 | 0.00 | 0.00 | 0.00 |
| 19,800.0 | 90.10 | 359.59 | 12,500.0 | 6,961.4 | 231.9 | 6,964.8 | 0.00 | 0.00 | 0.00 |
| 19,900.0 | 90.10 | 359.59 | 12,499.9 | 7,061.4 | 231.2 | 7,064.7 | 0.00 | 0.00 | 0.00 |
| 20,000.0 | 90.10 | 359.59 | 12,499.7 | 7,161.4 | 230.5 | 7,164.7 | 0.00 | 0.00 | 0.00 |
| 20,100.0 | 90.10 | 359.59 | 12,499.5 | 7,261.4 | 229.8 | 7,264.6 | 0.00 | 0.00 | 0.00 |
| 20,200.0 | 90.10 | 359.59 | 12,499.3 | 7,361.4 | 229.1 | 7,364.6 | 0.00 | 0.00 | 0.00 |
| 20,300.0 | 90.10 | 359.59 | 12,499.2 | 7,461.4 | 228.3 | 7,464.6 | 0.00 | 0.00 | 0.00 |
| 20,400.0 | 90.10 | 359.59 | 12,499.0 | 7,561.4 | 227.6 | 7,564.5 | 0.00 | 0.00 | 0.00 |
| 20,500.0 | 90.10 | 359.59 | 12,498.8 | 7,661.4 | 226.9 | 7,664.5 | 0.00 | 0.00 | 0.00 |
| 20,600.0 | 90.10 | 359.59 | 12,498.7 | 7,761.4 | 226.2 | 7,764.4 | 0.00 | 0.00 | 0.00 |
| 20,700.0 | 90.10 | 359.59 | 12,498.5 | 7,861.4 | 225.5 | 7,864.4 | 0.00 | 0.00 | 0.00 |
| 20,800.0 | 90.10 | 359.59 | 12,498.3 | 7,961.4 | 224.8 | 7,964.4 | 0.00 | 0.00 | 0.00 |
| 20,900.0 | 90.10 | 359.59 | 12,498.1 | 8,061.4 | 224.1 | 8,064.3 | 0.00 | 0.00 | 0.00 |
| 21,000.0 | 90.10 | 359.59 | 12,498.0 | 8,161.4 | 223.4 | 8,164.3 | 0.00 | 0.00 | 0.00 |
| 21,100.0 | 90.10 | 359.59 | 12,497.8 | 8,261.4 | 222.7 | 8,264.2 | 0.00 | 0.00 | 0.00 |
| 21,200.0 | 90.10 | 359.59 | 12,497.6 | 8,361.4 | 221.9 | 8,364.2 | 0.00 | 0.00 | 0.00 |
| 21,300.0 | 90.10 | 359.59 | 12,497.5 | 8,461.4 | 221.2 | 8,464.2 | 0.00 | 0.00 | 0.00 |
| 21,400.0 | 90.10 | 359.59 | 12,497.3 | 8,561.4 | 220.5 | 8,564.1 | 0.00 | 0.00 | 0.00 |
| 21,500.0 | 90.10 | 359.59 | 12,497.1 | 8,661.4 | 219.8 | 8,664.1 | 0.00 | 0.00 | 0.00 |
| 21,600.0 | 90.10 | 359.59 | 12,496.9 | 8,761.4 | 219.1 | 8,764.0 | 0.00 | 0.00 | 0.00 |
| 21,700.0 | 90.10 | 359.59 | 12,496.8 | 8,861.4 | 218.4 | 8,864.0 | 0.00 | 0.00 | 0.00 |
| 21,800.0 | 90.10 | 359.59 | 12,496.6 | 8,961.3 | 217.7 | 8,964.0 | 0.00 | 0.00 | 0.00 |
| 21,900.0 | 90.10 | 359.59 | 12,496.4 | 9,061.3 | 217.0 | 9,063.9 | 0.00 | 0.00 | 0.00 |
| 22,000.0 | 90.10 | 359.59 | 12,496.3 | 9,161.3 | 216.3 | 9,163.9 | 0.00 | 0.00 | 0.00 |
| 22,100.0 | 90.10 | 359.59 | 12,496.1 | 9,261.3 | 215.5 | 9,263.8 | 0.00 | 0.00 | 0.00 |
| 22,200.0 | 90.10 | 359.59 | 12,495.9 | 9,361.3 | 214.8 | 9,363.8 | 0.00 | 0.00 | 0.00 |
| 22,300.0 | 90.10 | 359.59 | 12,495.8 | 9,461.3 | 214.1 | 9,463.8 | 0.00 | 0.00 | 0.00 |
| 22,400.0 | 90.10 | 359.59 | 12,495.6 | 9,561.3 | 213.4 | 9,563.7 | 0.00 | 0.00 | 0.00 |
| 22,500.0 | 90.10 | 359.59 | 12,495.4 | 9,661.3 | 212.7 | 9,663.7 | 0.00 | 0.00 | 0.00 |
| 22,600.0 | 90.10 | 359.59 | 12,495.2 | 9,761.3 | 212.0 | 9,763.6 | 0.00 | 0.00 | 0.00 |
| 22,700.0 | 90.10 | 359.59 | 12,495.1 | 9,861.3 | 211.3 | 9,863.6 | 0.00 | 0.00 | 0.00 |
| 22,739.7 | 90.10 | 359.59 | 12,495.0 | 9,901.0 | 211.0 | 9,903.2 | 0.00 | 0.00 | 0.00 |



EOG Resources

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|-----------------------|
| Database: | EDM | Local Co-ordinate Reference: | Well #708H |
| Company: | EOG Resources - Midland | TVD Reference: | KB = 26' @ 3357.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | KB = 26' @ 3357.0usft |
| Site: | Vaca 24 Fed Com | North Reference: | Grid |
| Well: | #708H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #0.1 | | |

| Design Targets | | | | | | | | | |
|--|-----------|----------|----------|---------|--------|------------|------------|-----------------|-------------------|
| Target Name | | | | | | | | | |
| - hit/miss target | Dip Angle | Dip Dir. | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
| - Shape | (°) | (°) | (usft) | (usft) | (usft) | (usft) | (usft) | | |
| KOP(Vaca 24 Fed Com : - plan hits target center - Point | 0.00 | 0.00 | 12,034.5 | -505.0 | 285.0 | 404,302.00 | 792,943.00 | 32° 6' 32.034 N | 103° 31' 14.597 W |
| FTP(Vaca 24 Fed Com # - plan misses target center by 14.2usft at 12249.6usft MD (12218.3 TVD, -468.2 N, 284.7 E) - Point | 0.00 | 0.00 | 12,213.2 | -455.0 | 285.0 | 404,352.00 | 792,943.00 | 32° 6' 32.529 N | 103° 31' 14.593 W |
| PBHL(Vaca 24 Fed Corr - plan hits target center - Point | 0.00 | 0.00 | 12,495.0 | 9,901.0 | 211.0 | 414,708.00 | 792,869.00 | 32° 8' 15.009 N | 103° 31' 14.545 W |

Revised Permit Information 1/5/2020:

Well Name: Vaca 24 Fed Com #708H

Location:

SHL: 556' FSL & 1271' FEL, Section 24, T-25-S, R-33-E, Lea Co., N.M.

BHL: 100' FNL & 990' FEL, Section 13, T-25-S, R-33-E, Lea Co., N.M.

Design A**Casing Program:**

| Hole Size | Interval | Csg OD | Weight | Grade | Conn | DF _{min} Collapse | DF _{min} Burst | DF _{min} Tension |
|-----------|-------------------|--------|--------|---------|-------------|----------------------------|-------------------------|---------------------------|
| 12.25" | 0' – 1,200' | 9.625" | 40# | J-55 | LTC | 1.125 | 1.25 | 1.60 |
| 8.75" | 0' – 11,430' | 7.625" | 29.7# | HCP-110 | FXL | 1.125 | 1.25 | 1.60 |
| 6.75" | 0' – 10,930' | 5.5" | 20# | P-110EC | DWC/C-IS MS | 1.125 | 1.25 | 1.60 |
| 6.75" | 10,930'–11,430' | 5.5" | 20# | P-110EC | VAM SFC | 1.125 | 1.25 | 1.60 |
| 6.75" | 11,430' – 22,740' | 5.5" | 20# | P-110EC | DWC/C-IS MS | 1.125 | 1.25 | 1.60 |

Variance is requested to wave the centralizer requirements for the 7-5/8" casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to wave any centralizer requirements for the 5-1/2" casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

EOG requests variance to allow deviation from the 0.422" annulus clearance requirement from Onshore Order #2 under the following conditions:

- Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casing strings.
- Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

Cement Program:

| Depth | No. Sacks | Wt. ppg | Yld Ft ³ /sk | Slurry Description |
|-------------------|-----------|---------|-------------------------|--|
| 1,200' 9-5/8" | 330 | 13.5 | 1.73 | Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface) |
| | 100 | 14.8 | 1.34 | Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,000') |
| 11,430' 7-5/8" | 420 | 14.2 | 1.11 | 1 st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,925') |
| | 1,320 | 14.8 | 1.5 | 2 nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface) |
| 22,740' 5-1/2" | 1,000 | 14.2 | 1.31 | Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,930') |

| Additive | Purpose |
|---------------------|---|
| Bentonite Gel | Lightweight/Lost circulation prevention |
| Calcium Chloride | Accelerator |
| Cello-flake | Lost circulation prevention |
| Sodium Metasilicate | Accelerator |
| MagOx | Expansive agent |
| Pre-Mag-M | Expansive agent |
| Sodium Chloride | Accelerator |
| FL-62 | Fluid loss control |
| Halad-344 | Fluid loss control |
| Halad-9 | Fluid loss control |
| HR-601 | Retarder |
| Microbond | Expansive Agent |

EOG requests variance from minimum standards to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated TOC at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary a top out consisting of 1,000 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Top of cement will be verified by Echo-meter.

EOG will include the final fluid top verified by Echo-meter and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

Mud Program:

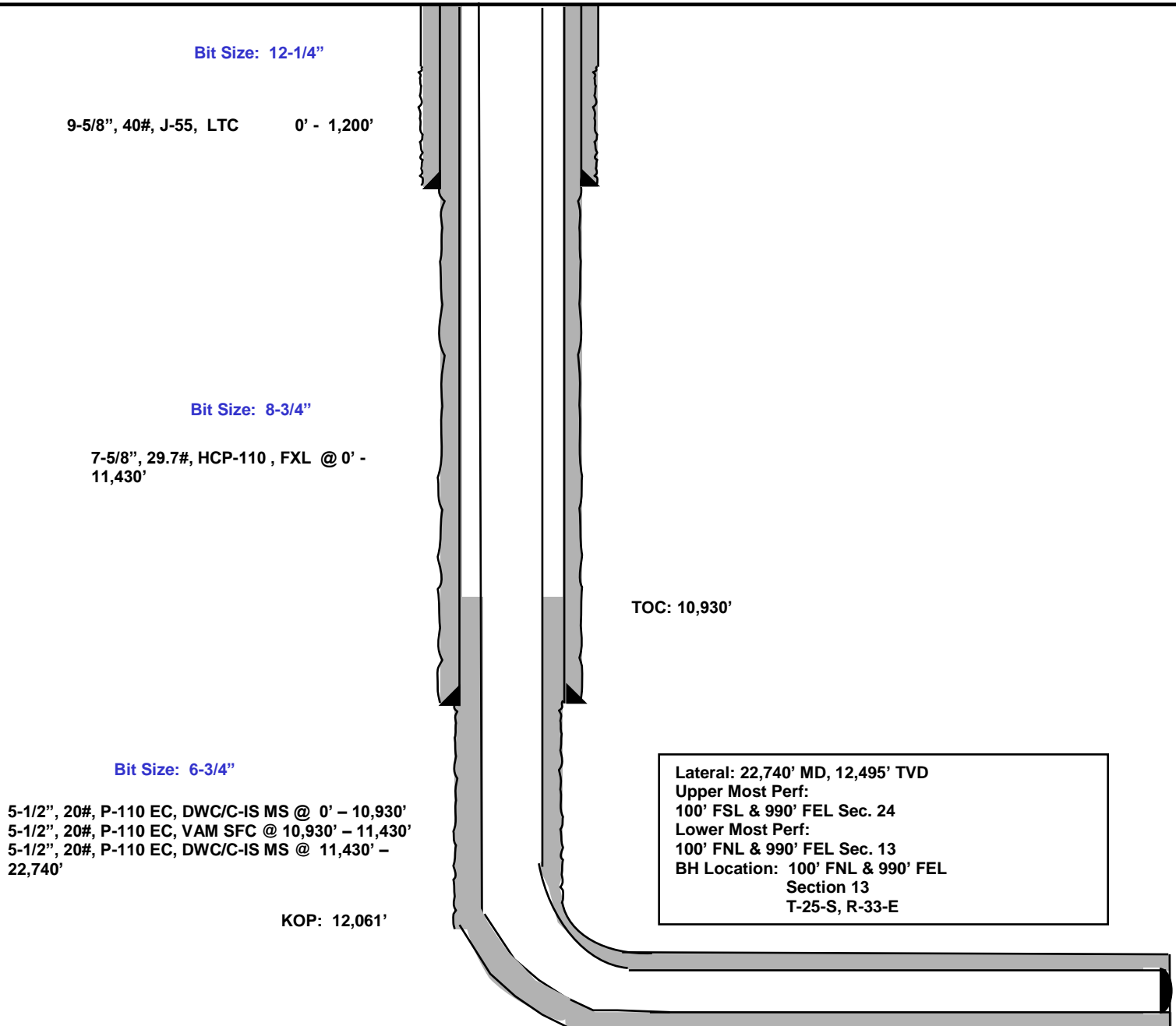
| Depth | Type | Weight (ppg) | Viscosity | Water Loss |
|------------------------------|-------------|---------------------|------------------|-------------------|
| 0 – 1,200' | Fresh - Gel | 8.6-8.8 | 28-34 | N/c |
| 1,200' – 11,430' | Brine | 10.0-10.2 | 28-34 | N/c |
| 11,430' – 12,061' | Oil Base | 8.7-9.4 | 58-68 | N/c - 6 |
| 12,061' – 22,740' Lateral | Oil Base | 10.0-14.0 | 58-68 | 3 - 6 |

556' FSL
1271' FEL
Section 24
T-25-S, R-33-E

Revised Wellbore

KB: 3,356'
GL: 3,331'

API: 30-025-46967



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 15751

CONDITIONS OF APPROVAL

| | | | | | | | | | |
|--------------|-------------------|---------------|------------------|--------|------|----------------|-------|--------------|-----------|
| Operator: | EOG RESOURCES INC | P.O. Box 2267 | Midland, TX79702 | OGRID: | 7377 | Action Number: | 15751 | Action Type: | C-103A |
| OCD Reviewer | | | | | | | | | Condition |
| pkautz | | | | | | | | | None |