

Carlsbad Field Office OCD Hobbs

HOBBS OCD

FEB 06 2017

RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM02965A 121490
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator EOG RESOURCES INC (7377)		7. If Unit or CA Agreement, Name and No.
3a. Address 1111 Bagby Sky Lobby2 Houston TX 77002		8. Lease Name and Well No. COLGROVE 35 FED COM 703H (315730)
3b. Phone No. (include area code) (713)651-7000		9. API Well No. 30-025-43568 (78097)
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface LOT 3 / 252 FSL / 1970 FWL / LAT 32.0008253 / LONG -103.5448152 At proposed prod. zone: NENW / 230 FNL / 1650 FWL / LAT 32.0209375 / LONG -103.5458485		10. Field and Pool, or Exploratory RED HILLS / WC-025 S263327G
14. Distance in miles and direction from nearest town or post office* 22.5 miles		11. Sec., T. R. M. or Blk. and Survey or Area SEC 35 / T26S / R33E / NMP
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 230 feet	16. No. of acres in lease	17. Spacing Unit dedicated to this well 236.32
18. Distance from proposed location* to nearest well, drilling, completed, 661 feet applied for, on this lease, ft.	19. Proposed Depth 12465 feet / 19783 feet	20. BLM/BIA Bond No. on file FED: NM2308
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3320 feet	22. Approximate date work will start* 11/01/2016	23. Estimated duration 25 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature (Electronic Submission)	Name (Printed/Typed) Stan Wagner / Ph: (432)686-3689	Date 07/25/2016
Title Regulatory Specialist		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 01/30/2017
Title Supervisor Multiple Resources		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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.

(Continued on page 2)

*(Instructions on page 2)

APPROVED WITH CONDITIONS

KZ
02/06/17



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

APD Print Report

01/31/2017

APD ID: 10400003293

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Type: OIL WELL

Submission Date: 07/25/2016

Federal/Indian APD: FED

Well Number: 703H

Well Work Type: Drill

Highlight

All Changes

Application

Section 1 - General

APD ID: 10400003293

BLM Office: HOBBS

Federal/Indian APD: FED

Lease number: NMNM02965A 121490

Surface access agreement in place?

Agreement in place? NO

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

Operator letter of designation:

Keep application confidential? YES

Tie to previous NOS?

User: Stan Wagner

Is the first lease penetrated for production Federal or Indian? FED

Lease Acres:

Allotted?

Reservation:

Federal or Indian agreement:

Submission Date: 07/25/2016

Title: Regulatory Specialsit

APD Operator: EOG RESOURCES INC

Operator Info

Operator Organization Name: EOG RESOURCES INC

Operator Address: 1111 Bagby Sky Lobby2

Operator PO Box:

Zip: 77002

Operator City: Houston

State: TX

Operator Phone: (713)651-7000

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Well in Master SUPO? NO

Well in Master Drilling Plan? NO

Mater Development Plan name:

Master SUPO name:

Master Drilling Plan name:

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

Well Name: COLGROVE 35 FED COM

Well Number: 703H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: RED HILLS

Pool Name: WC-025 S263327G

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

Describe other minerals:

Is the proposed well in a Helium production area? N

Use Existing Well Pad? NO

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:

Number: 703H/704H

COLGROVE 35 FED COM

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 22.5 Miles

Distance to nearest well: 661 FT

Distance to lease line: 230 FT

Reservoir well spacing assigned acres Measurement: 236.32 Acres

Well plat: Colgrove 35 Fed Com 703H Signed C-102_08-01-2016.pdf

Well work start Date: 11/01/2016

Duration: 25 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD27

Vertical Datum: NAVD88

Survey number:

STATE: NEW MEXICO

Meridian: NEW MEXICO PRINCIPAL **County:** LEA

Latitude: 32.0008253

Longitude: -103.5448152

SHL

Elevation: 3320

MD: 0

TVD: 0

Leg #: 1

Lease Type: FEDERAL

Lease #: NMNM121490

NS-Foot: 252

NS Indicator: FSL

EW-Foot: 1970

EW Indicator: FWL

Twsp: 26S

Range: 33E

Section: 35

Aliquot:

Lot: 3

Tract:

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL	County: LEA
	Latitude: 32.0002819	Longitude: -103.5457669	
KOP	Elevation: -8655	MD: 11983	TVD: 11975
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM121490	
	NS-Foot: 52	NS Indicator: FSL	
	EW-Foot: 1676	EW Indicator: FWL	
	Twsp: 26S	Range: 33E	Section: 35
	Aliquot:	Lot: 3	Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL	County: LEA
	Latitude: 32.0010405	Longitude: -103.5458307	
PPP	Elevation: -9100	MD: 12538	TVD: 12420
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM121490	
	NS-Foot: 330	NS Indicator: FSL	
	EW-Foot: 1655	EW Indicator: FWL	
	Twsp: 26S	Range: 33E	Section: 35
	Aliquot:	Lot: 3	Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL	County: LEA
	Latitude: 32.0206626	Longitude: -103.5458482	
EXIT	Elevation: -9145	MD: 19682	TVD: 12465
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM02965A	
	NS-Foot: 330	NS Indicator: FNL	
	EW-Foot: 1650	EW Indicator: FWL	
	Twsp: 26S	Range: 33E	Section: 26
	Aliquot: NENW	Lot:	Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL	County: LEA
	Latitude: 32.0209375	Longitude: -103.5458485	
BHL	Elevation: -9145	MD: 19783	TVD: 12465
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM02965A	
	NS-Foot: 230	NS Indicator: FNL	
	EW-Foot: 1650	EW Indicator: FWL	

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

Twsp: 26S

Range: 33E

Section: 26

Aliquot: NENW

Lot:

Tract:

Drilling Plan

Section 1 - Geologic Formations

ID: Surface formation

Name: RUSTLER

Lithology(ies):

ANHYDRITE

Elevation: 2500

True Vertical Depth: 820

Measured Depth: 820

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 1

Name: TOP OF SALT

Lithology(ies):

SALT

Elevation: 2160

True Vertical Depth: 1160

Measured Depth: 1160

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 2

Name: BASE OF SALT

Lithology(ies):

SALT

Elevation: -1460

True Vertical Depth: 4780

Measured Depth: 4780

Mineral Resource(s):

NONE

Is this a producing formation? N

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

ID: Formation 3

Name: LAMAR LS

Lithology(ies):

LIMESTONE

Elevation: -1710

True Vertical Depth: 5030

Measured Depth: 5030

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 4

Name: BELL CANYON

Lithology(ies):

SANDSTONE

Elevation: -1740

True Vertical Depth: 5060

Measured Depth: 5060

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? Y

ID: Formation 5

Name: CHERRY CANYON

Lithology(ies):

SANDSTONE

Elevation: -2765

True Vertical Depth: 6085

Measured Depth: 6085

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? Y

ID: Formation 6

Name: BRUSHY CANYON

Lithology(ies):

SANDSTONE

Elevation: -4440

True Vertical Depth: 7760

Measured Depth: 7760

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? Y

ID: Formation 7

Name: BONE SPRING LIME

Lithology(ies):

LIMESTONE

Elevation: -5925

True Vertical Depth: 9245

Measured Depth: 9245

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 8

Name: BONE SPRING 1ST

Lithology(ies):

SANDSTONE

Elevation: -6855

True Vertical Depth: 10175

Measured Depth: 10175

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? Y

ID: Formation 9

Name: BONE SPRING 2ND

Lithology(ies):

SANDSTONE

Elevation: -7360

True Vertical Depth: 10680

Measured Depth: 10680

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? Y

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

ID: Formation 10

Name: BONE SPRING 3RD

Lithology(ies):

SANDSTONE

Elevation: -8440

True Vertical Depth: 11760

Measured Depth: 11760

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? Y

ID: Formation 11

Name: WOLFCAMP

Lithology(ies):

SHALE

Elevation: -8905

True Vertical Depth: 12225

Measured Depth: 12225

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 12465

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 (5000-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. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

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 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.

Testing Procedure: Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 5000/ 250 psig and the annular preventer to 3500/ 250 psig. The surface casing will be tested to 1500 psi for 30 minutes. Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000/ 250 psig and the annular preventer to 3500/ 250 psig. The intermediate casing will be tested to 2000 psi for 30 minutes. Pipe rams will be operationally checked each 24-hour period. 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.

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

Choke Diagram Attachment:

5 M Choke Manifold Diagram (3-21-14)_06-02-2016.pdf

BOP Diagram Attachment:

5 M BOP Diagram (8-14-14)_06-02-2016.pdf

Section 3 - Casing

String Type: SURFACE

Other String Type:

Hole Size: 14.75

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth MSL:

Bottom setting depth MD: 845

Bottom setting depth TVD: 845

Bottom setting depth MSL: 2475

Calculated casing length MD: 845

Casing Size: 10.75

Other Size

Grade: J-55

Other Grade:

Weight: 40.5

Joint Type: STC

Other Joint Type:

Condition: NEW

Inspection Document:

Standard: API

Spec Document:

Tapered String?: N

Tapered String Spec:

Safety Factors

Collapse Design Safety Factor: 1.125

Burst Design Safety Factor: 1.25

Joint Tensile Design Safety Factor type: BUOYANT

Joint Tensile Design Safety Factor: 1.6

Body Tensile Design Safety Factor type: BUOYANT

Body Tensile Design Safety Factor: 1.6

Casing Design Assumptions and Worksheet(s):

Colgrove 35 Fed Com 703H BLM Plan_08-10-2016.pdf

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

String Type: INTERMEDIATE

Other String Type:

Hole Size: 8.75

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth MSL: 3320

Bottom setting depth MD: 11300

Bottom setting depth TVD: 11300

Bottom setting depth MSL: -7980

Calculated casing length MD: 11300

Casing Size: 7.625

Other Size

Grade: HCP-110

Other Grade:

Weight: 29.7

Joint Type: OTHER

Other Joint Type: Flushmax III

Condition: NEW

Inspection Document:

Standard: API

Spec Document:

Tapered String?: N

Tapered String Spec:

Safety Factors

Collapse Design Safety Factor: 1.125

Burst Design Safety Factor: 1.25

Joint Tensile Design Safety Factor type: BUOYANT

Joint Tensile Design Safety Factor: 1.6

Body Tensile Design Safety Factor type: BUOYANT

Body Tensile Design Safety Factor: 1.6

Casing Design Assumptions and Worksheet(s):

Colgrove 35 Fed Com 703H BLM Plan_08-10-2016.pdf

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

String Type: PRODUCTION

Other String Type:

Hole Size: 6.75

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth MSL: 3320

Bottom setting depth MD: 10800

Bottom setting depth TVD: 10800

Bottom setting depth MSL: -7480

Calculated casing length MD: 10800

Casing Size: 5.5

Other Size

Grade: HCP-110

Other Grade:

Weight: 23

Joint Type: OTHER

Other Joint Type: VAM TOP HT

Condition: NEW

Inspection Document:

Standard: API

Spec Document:

Tapered String?: N

Tapered String Spec:

Safety Factors

Collapse Design Safety Factor: 1.125

Burst Design Safety Factor: 1.25

Joint Tensile Design Safety Factor type: BUOYANT

Joint Tensile Design Safety Factor: 1.6

Body Tensile Design Safety Factor type: BUOYANT

Body Tensile Design Safety Factor: 1.6

Casing Design Assumptions and Worksheet(s):

Colgrove 35 Fed Com 703H BLM Plan_08-10-2016.pdf

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

String Type: PRODUCTION

Other String Type:

Hole Size: 6.75

Top setting depth MD: 10800

Top setting depth TVD: 10800

Top setting depth MSL: -7480

Bottom setting depth MD: 19783

Bottom setting depth TVD: 12465

Bottom setting depth MSL: -9145

Calculated casing length MD: 8983

Casing Size: 5.5

Other Size

Grade: HCP-110

Other Grade:

Weight: 23

Joint Type: OTHER

Other Joint Type: VAM SG

Condition: NEW

Inspection Document:

Standard: API

Spec Document:

Tapered String?: N

Tapered String Spec:

Safety Factors

Collapse Design Safety Factor: 1.125

Burst Design Safety Factor: 1.25

Joint Tensile Design Safety Factor type: BUOYANT

Joint Tensile Design Safety Factor: 1.6

Body Tensile Design Safety Factor type: BUOYANT

Body Tensile Design Safety Factor: 1.6

Casing Design Assumptions and Worksheet(s):

Colgrove 35 Fed Com 703H BLM Plan_08-10-2016.pdf

Section 4 - Cement

Casing String Type: SURFACE

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

Stage Tool Depth:

Lead

Top MD of Segment: 0 Bottom MD Segment: 845 Cement Type: Class C

Additives: Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface) Quantity (sks): 325 Yield (cu.ff./sk): 1.73

Density: 13.5 Volume (cu.ft.): 562 Percent Excess: 25

Tail

Top MD of Segment: 845 Bottom MD Segment: 845 Cement Type: Class C

Additives: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate Quantity (sks): 200 Yield (cu.ff./sk): 1.34

Density: 14.8 Volume (cu.ft.): 268 Percent Excess: 25

Casing String Type: INTERMEDIATE

Stage Tool Depth:

Lead

Top MD of Segment: 0 Bottom MD Segment: 11300 Cement Type: Class C

Additives: Class C + 5% Gypsum + 3% CaCl₂ Quantity (sks): 2250 Yield (cu.ff./sk): 1.38

Density: 14.8 Volume (cu.ft.): 3105 Percent Excess: 25

Tail

Top MD of Segment: 11300 Bottom MD Segment: 11300 Cement Type: Class H

Additives: 50:50 Class H:Poz + 0.25% CPT20A + 0.40% CPT49 + 0.20% CPT35 + 0.80% CPT16A + 0.25% CPT503P Quantity (sks): 550 Yield (cu.ff./sk): 1.2

Density: 14.4 Volume (cu.ft.): 660 Percent Excess: 25

Casing String Type: PRODUCTION

Stage Tool Depth:

Lead

Top MD of Segment: 10800 Bottom MD Segment: 19783 Cement Type: Class H

Additives: Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 10,800') Quantity (sks): 725 Yield (cu.ff./sk): 1.26

Density: 14.1 Volume (cu.ft.): 913 Percent Excess: 25

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

Stage Tool Depth:

Lead

Top MD of Segment: 10800

Bottom MD Segment: 19783

Cement Type: Class H

Additives: Class H + 0.1% C-20 +
0.05% CSA-1000 + 0.20% C-49 +
0.40% C-17 (TOC @ 10,800')

Quantity (sks): 725

Yield (cu.ff./sk): 1.26

Volume (cu.ft.): 913

Percent Excess: 25

Density: 14.1

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: An electronic pit volume totalizer (PVT) will be utilized on the circulating system to monitor pit volume, flow rate, pump pressure and stroke rate.

Circulating Medium Table

Top Depth: 845

Bottom Depth: 11300

Mud Type: SALT SATURATED

Min Weight (lbs./gal.): 8.8

Max Weight (lbs./gal.): 10

Density (lbs/cu.ft.):

Gel Strength (lbs/100 sq.ft.):

PH:

Viscosity (CP):

Filtration (cc):

Salinity (ppm):

Additional Characteristics:

Top Depth: 11300

Bottom Depth: 19783

Mud Type: OIL-BASED MUD

Min Weight (lbs./gal.): 10

Max Weight (lbs./gal.): 11.5

Density (lbs/cu.ft.):

Gel Strength (lbs/100 sq.ft.):

PH:

Viscosity (CP):

Filtration (cc):

Salinity (ppm):

Additional Characteristics:

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

Top Depth: 0

Bottom Depth: 845

Mud Type: WATER-BASED MUD

Min Weight (lbs./gal.): 8.6

Max Weight (lbs./gal.): 8.8

Density (lbs/cu.ft.):

Gel Strength (lbs/100 sq.ft.):

PH:

Viscosity (CP):

Filtration (cc):

Salinity (ppm):

Additional Characteristics:

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:

DS

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7454

Anticipated Surface Pressure: 7454

Anticipated Bottom Hole Temperature(F): 182

Anticipated abnormal proessures, 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:

Colgrove 35 Fed Com 703H H2S Plan Summary_07-21-2016.pdf

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Colgrove 35 Fed Com 703H Planning Report_07-21-2016.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Co-Flex Hose Test Chart_06-03-2016.pdf

Co-Flex Hose Certification_06-03-2016.PDF

Colgrove 35 Fed Com 703H Proposed Wellbore_07-21-2016.pdf

Colgrove 35 Fed Com 703H Well Site Diagram_07-21-2016.pdf

7.625 29.70 lb P-110 FlushMax III Spec Sheet_07-21-2016.pdf

5.5 23 lb HCP-110 VAM Top HT_07-21-2016.pdf

CDS_5.500_23.00lb_P110_VAM@@ TOP HT_07-21-2016.pdf

Colgrove 35 Fed Com 703H BLM Plan_07-21-2016.pdf

Other Variance attachment:

SUPO

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Colgrove 35 Fed Com 703H exhibit 2_07-18-2016.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:

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Colgrove 35 Fed Com 703H exhibit 2B_07-18-2016.pdf

New road type: RESOURCE

Length: 4247

Feet

Width (ft.): 24

Max slope (%): 2

Max grade (%): 20

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 24

New road access erosion control: Newly constructed or reconstructed roads will be constructed as outlined in the BLM "Gold Book" and to meet the standards of the anticipated traffic flow and all anticipated weather requirements as needed. Construction will include ditching, draining, crowning and capping or sloping and dipping the roadbed as necessary to provide a well-constructed and safe road. We plan to grade and water twice a year.

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: 6" of Compacted Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: An adequate amount of topsoil/root zone will be stripped by dozer from the proposed well location and stockpiled along the side of the well location as depicted on the well site diagram / survey plat.

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: No drainage crossings

Road Drainage Control Structures (DCS) description: N/A

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Colgrove 35 Fed Com 703H exhibit 3_07-18-2016.pdf

Existing Wells description:

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Estimated Production Facilities description:

Production Facilities description:

Production Facilities map:

SK_COLGROVE_EXHIBIT5_REV2_07-18-2016.pdf

Colgrove 35 Fed Com PL_07-18-2016.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: OTHER

Water source type: RECYCLED

Describe type:

Source latitude:

Source longitude:

Source datum:

Water source permit type: WATER RIGHT

Source land ownership: STATE

Water source transport method: PIPELINE,TRUCKING

Source transportation land ownership: STATE

Water source volume (barrels): 720000

Source volume (acre-feet): 92.80303

Source volume (gal): 30240000

Water source and transportation map:

Colgrove 35 Fed Com Water Source Map_08-10-2016.docx

Water source comments: We plan to use 4, 4-inch poly lines to supply water for drilling. 1, 12-inch lay flat hose will be used to supply water for the frac.

New water well? NO

New Water Well Info

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

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:

Section 6 - Construction Materials

Construction Materials description: 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.

Construction Materials source location attachment:

Caliche Map_07-12-2016.docx

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:

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

Disposal location description: Trucked to NMOCD approved disposal facility

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

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

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? YES

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?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Colgrove 35 Fed Com 703H exhibit 2A_07-18-2016.pdf

Colgrove 35 Fed Com 703H exhibit 2B_07-18-2016.pdf

Comments: Exhibit 2A & Exhibit 2B

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

Section 10 - Plans for Surface Reclamation

Type of disturbance: NEW

Recontouring attachment:

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.

Wellpad long term disturbance (acres): 3.122

Wellpad short term disturbance (acres): 4.029

Access road long term disturbance (acres): 2.3399

Access road short term disturbance (acres): 2.3399

Pipeline long term disturbance (acres): 0.9731405

Pipeline short term disturbance (acres): 0.9731405

Other long term disturbance (acres): 0

Other short term disturbance (acres): 0

Total long term disturbance: 6.4350405

Total short term disturbance: 7.3420405

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:

Colgrove 35 Fed Com 703H exhibit 2B_07-18-2016.pdf

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:

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

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? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary

Total pounds/Acre:

Seed Type

Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Stan

Last Name: Wagner

Phone: (432)686-3689

Email: stan_wagner@eogresources.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

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

Disturbance type: WELL PAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

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:

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

Fee Owner: Oliver Kiehne

Fee Owner Address: P.O. Box 135 Orla, TX 79770

Phone: (575)399-9281

Email:

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: Surface use agreement in place.

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information: OnSite meeting conducted 4/26/16

Use a previously conducted onsite? NO

Previous Onsite information:

Other SUPO Attachment

Colgrove 35 Fed Com 703H exhibit 2C_07-18-2016.pdf

Colgrove 35 Fed Com 703H L&E_07-18-2016.pdf

Colgrove 35 Fed Com 703H exhibit 2B_07-18-2016.pdf

Colgrove 35 Fed Com 703H Well Site Diagram_07-21-2016.pdf

Colgrove 35 Fed Com 703H deficiency letter response_08-10-2016.pdf

PWD

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

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? NO

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:

Describe 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:

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe 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:

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

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? NO

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? NO

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?

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

Other regulatory requirements attachment:

Bond Info

Bond Information

Federal/Indian APD: FED

BLM Bond number: NM2308

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Operator Certification

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: Stan Wagner

Signed on: 07/25/2016

Title: Regulatory Specialsit

Street Address: 5509 Champions Drive

City: Midland

State: TX

Zip: 79702

Phone: (432)686-3689

Email address: Stan_Wagner@eogresources.com

Field Representative

Representative Name: James Barwis

Street Address: 5509 Champions Drive

Operator Name: EOG RESOURCES INC

Well Name: COLGROVE 35 FED COM

Well Number: 703H

City: Midland

State: TX

Zip: 79706

Phone: (432)425-1204

Email address: james_barwis@eogresources.com

Payment Info

Payment

APD Fee Payment Method: BLM DIRECT

CBS Receipt number: 3613127