1 Form 3160 -3 (March 2012)

DEPARTMENT OF THE INTERIOR

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

6. If Indian, Allotee or Tribe Name

5. Lease Serial No.

NMNM119280

## BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER

UNITED STATES

				APARTITE				
la. Type of work:	R			7. If Unit or CA Agre	eement, Na	me and No.		
lb. Type of Well: Oil Well Gas Well Other	V	Single Zone Multip	le Zone	8. Lease Name and SQUARE BILL FE		(3/967) COM 1H		
2. Name of Operator COG OPERATING LLC 229/7	37		A	9. API Well No.	5-4	4046		
3a. Address 600 West Illinois Ave Midland TX 79701	3b. Phone (432)68	No. (include area code)		10. Field and Pool, or WILDCAT / WOLF	-	(17980)		
4. Location of Well (Report location clearly and in accordance with any	0	11. Sec., T. R. M. or E	lk. and Su	vey or Area				
At surface SESE / 210 FSL / 957 FEL / LAT 32.080203 / At proposed prod. zone NESE / 2440 FSL / 660 FEL / LAT 3	Attended		SEC 31 / T25S / R35E / NMP  12. County or Parish 13. State					
14. Distance in miles and direction from nearest town or post office*  11 miles	54 / LONG -105,40020	4	12. County or Parish LEA		13. State NM			
15. Distance from proposed* location to nearest 210 feet property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. 880.32	of acres in lease	17. Spacin 240	g Unit dedicated to this	well			
18. Distance from proposed location* to nearest well, drilling, completed, 3656 feet applied for, on this lease, ft.		osed Depth feet / 19620 feet		BIA Bond No. on file MB000215				
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22 Appr	roximate date work will star	rt*	23. Estimated duration	n			
3274 feet	08/01/2	2017		30 days				
	24. A	ttachments						
The following, completed in accordance with the requirements of Onshor	e Oil and (	Gas Order No.1, must be at	tached to the	is form:				
Well plat certified by a registered surveyor.     A Drilling Plan.     A Surface Use Plan (if the location is on National Forest System)	Lands, the	Item 20 above).	•	ns unless covered by ar	existing l	oond on file (see		
SUPO must be filed with the appropriate Forest Service Office).				ormation and/or plans a	s may be r	equired by the		
25. Signature	177.50	me (Printed/Typed)			Date			
(Electronic Submission)	M	ayte Reyes / Ph: (575)	748-6945		04/05/	2017		
Title Regulatory Analyst								
Approved by (Signature) (Electronic Submission)		nme <i>(Printed/Typed)</i> ody Layton / Ph: (575)2	34-5959		Date 09/14/	2017		
Title Supervisor Multiple Resources	1000	fice ARLSBAD						
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								

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. \*(Instructions on page 2)

(Continued on page 2)

conduct operations thereon.

Conditions of approval, if any, are attached.





U.S₄Department of the Interior BUREAU OF LAND MANAGEMENT

# orator Certification Data Report 09/15/2017

## **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: Mayte Reyes

Signed on: 03/28/2017

Title: Regulatory Analyst

Street Address: 2208 W Main Street

City: Artesia

State: NM

Zip: 88210

Phone: (575)748-6945

Email address: Mreyes1@concho.com

#### Field Representative

Representative Name: Rand French

Street Address: 2208 West Main Street

City: Artesia

State: NM

Zip: 88210

Phone: (575)748-6940

Email address: mreyes1@concho.com



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

## **Application Data Report**

APD ID: 10400012753

Operator Name: COG OPERATING LLC

Submission Date: 04/05/2017

Highlighted data reflects the most recent changes

Well Name: SQUARE BILL FEDERAL COM

Well Number: 1H

**Show Final Text** 

Well Type: OIL WELL

Well Work Type: Drill

#### Section 1 - General

APD ID:

10400012753

Tie to previous NOS?

Submission Date: 04/05/2017

**BLM Office: CARLSBAD** 

User: Mayte Reyes

Title: Regulatory Analyst

Federal/Indian APD: FED

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

Lease number: NMNM119280

Lease Acres: 880.32

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: COG OPERATING LLC

Operator letter of designation:

## **Operator Info**

Operator Organization Name: COG OPERATING LLC

Operator Address: 600 West Illinois Ave

Zip: 79701

**Operator PO Box:** 

Operator City: Midland

State: TX

**Operator Phone:** (432)683-7443

Operator Internet Address: RODOM@CONCHO.COM

#### Section 2 - Well Information

Well in Master Development Plan? NO

Mater Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: SQUARE BILL FEDERAL COM

Well Number: 1H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WILDCAT

Pool Name: WOLFCAMP

Is the proposed well in an area containing other mineral resources? USEABLE WATER,OIL

Welf Name: SQUARE BILL FEDERAL COM Well Number: 1H

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: SINGLE WELL

Multiple Well Pad Name:

Number:

Well Class: HORIZONTAL

Number of Legs:

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town: 11 Miles

Distance to nearest well: 3656 FT

Distance to lease line: 210 FT

Reservoir well spacing assigned acres Measurement: 240 Acres

Well plat: COG\_Square\_Bill\_1H\_C102\_03-28-2017.pdf

Well work start Date: 08/01/2017

**Duration: 30 DAYS** 

#### Section 3 - Well Location Table

Survey Type: RECTANGULAR

**Describe Survey Type:** 

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

	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
SHL	210	FSL	957	FEL	25S	35E	31	Aliquot	32.08020		LEA	NEW	NEW	F	NMNM	327	0	0
Leg								SESE	3	103.4011		MEXI		H-	119280	4		
#1										36		СО	СО					
KOP	210	FSL	957	FEL	25S	35E	31	Aliquot	32.08020	-	LEA	NEW	NEW	F	NMNM	327	0	0
Leg				1				SESE	3	103.4011		MEXI	MEXI		119280	4		
#1										36		СО	СО					
PPP	330	FSL	660	FEL	25S	35E	31	Aliquot	32.08053	- 100	LEA	NEW	NEW	F	NMNM	-	500	500
Leg								SESE	2	103.4001		MEXI	MEXI		119280	172	0	0
#1	4 - 1									77		СО	CO			6		

Well\*Name: \$QUARE BILL FEDERAL COM

Well Number: 1H

	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	ΔΛΤ
PPP	264	FNL	660	FEL	25S	35E	31	Aliquot	32.08690		LEA	The state of the s	NEW	F	NMNM	-	144	123
Leg	0							SENE	1	103.4001	1	MEXI			132954	908	00	56
#1										85		СО	СО			2		
EXIT	231	FSL	660	FEL	25S	35E	30	Aliquot	32.10047	-	LEA	NEW	NEW	F	NMNM	-	194	123
Leg	0							NESE	7	103.4002		MEXI	MEXI		119280	907	00	45
#1		2								03		CO	CO			1		
BHL	244	FSL	660	FEL	25S	35E	30	Aliquot	32.10083	- 4 10	LEA	NEW	NEW	F	NMNM	-	196	123
Leg	0							NESE	4	103.4002	1	MEXI	MEXI		119280	907	20	45
#1										04		СО	СО			1		



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

# Drilling Plan Data Report

09/15/2017

**APD ID:** 10400012753

Operator Name: COG OPERATING LLC

Well Name: SQUARE BILL FEDERAL COM

Well Type: OIL WELL

Submission Date: 04/05/2017

Highlighted data reflects the most recent changes

**Show Final Text** 

Well Number: 1H

Well Work Type: Drill

## Section 1 - Geologic Formations

Formation			True Vertical	Measured		The state of the s	Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
17318	UNKNOWN	3246	0	0	-	NONE	No
17348	RUSTLER	2103	1143	1143		NONE	No
17718	TOP SALT	1728	1518	1518	SALT	NONE	No
17722	BASE OF SALT	-1797	5043	5043	ANHYDRITE	NONE	No
17719	LAMAR	-2116	5362	5362	LIMESTONE	NATURAL GAS,OIL	No
15332	BELL CANYON	-2151	5397	5397		NONE	No
15316	CHERRY CANYON	-3136	6382	6382		NATURAL GAS,OIL	No
17713	BRUSHY CANYON	-4702	7948	7948		NATURAL GAS,OIL	No
17688	BONE SPRING	-5994	9240	9240	SANDSTONE	NATURAL GAS,OIL	. No
19973	UPPER AVALON SHALE	-6047	9293	9293		NATURAL GAS,OIL	. No
17769	AVALON SAND	-6323	9569	9569		NATURAL GAS,OIL	. No
15338	BONE SPRING 1ST	-7139	10385	10385		NATURAL GAS,OIL	. No
17737	BONE SPRING 2ND	-7679	10925	10925		NATURAL GAS,OIL	. No
17738	BONE SPRING 3RD	-8809	12055	12055		NATURAL GAS,OIL	. No
17709	WOLFCAMP	-9239	12485	12485	SHALE	NATURAL GAS,OIL	Yes

### Section 2 - Blowout Prevention

Well Name: SQUARE BILL FEDERAL COM Well Number: 1H

Pressure Rating (PSI): 3M

Rating Depth: 11870

**Equipment:** Annular. Accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Requesting Variance? YES

**Variance request:** A variance is requested for the use of a flexible choke line from the BOP to the choke manifold. See attached for specs and hydrostatic test chart.

**Testing Procedure:** BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. 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.

#### **Choke Diagram Attachment:**

COG\_Square\_Bill\_1H\_3M\_Choke\_03-28-2017.pdf

#### **BOP Diagram Attachment:**

COG Square Bill 1H 3M BOP 03-28-2017.pdf

Pressure Rating (PSI): 5M

Rating Depth: 12450

**Equipment:** Annular, Blind Ram, Pipe Ram. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold

Requesting Variance? YES

**Variance request:** A variance is requested for the use of a flexible choke line from the BOP to the choke manifold. See attached for specs and hydrostatic test chart.

**Testing Procedure:** BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. 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.

#### **Choke Diagram Attachment:**

COG\_Square\_Bill\_1H\_5M\_Choke\_03-28-2017.pdf

#### **BOP Diagram Attachment:**

COG Square Bill 1H 5M BOP 03-28-2017.pdf

## Section 3 - Casing

Well Name: SQUARE BILL FEDERAL COM

Well Number: 1H

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	Body SF
1	SURFACE	13.5	10.75	NEW	API	N	0	1170	0	1170	-9071	-9966	1170	N-80		OTHER - BTC	4.61	1.19	DRY	19.5 4	DRY	19.5 4
2	INTERMED IATE	9.87 5	7.875	NEW	API	N	0	11870	0	11870	-9071	- 20771	11870	P- 110		OTHER - BTC	1.28	1.18	DRY	3.08	DRY	3.08
3	PRODUCTI ON	6.75	5.0	NEW	API	N	0	19620	0	19620	-9071	- 31281	19620	P- 110		OTHER - BTC	2.06	2.17	DRY	3.28	DRY	3.28

Casing	Attach	iments
--------	--------	--------

Casing ID: 1

String Type: SURFACE

**Inspection Document:** 

Spec Document:

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

COG\_Square\_Bill\_1H\_Casing\_Prog\_03-28-2017.pdf

Casing ID: 2

String Type: INTERMEDIATE

Inspection Document:

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

COG\_Square\_Bill\_1H\_Casing\_Prog\_03-28-2017.pdf

Well Name: SQUARE BILL FEDERAL COM

Well Number: 1H

#### **Casing Attachments**

Casing ID: 3

String Type: PRODUCTION

Inspection Document:

Spec Document:

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

COG\_Square\_Bill\_1H\_Casing\_Prog\_03-28-2017.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
SURFACE	Lead		0	1170	180	1.75	13.5	315	50	Class C	4% Gel + 1% CaCl2
SURFACE	Tail		0	1170	250	1.34	14.8	335	50	Class C	2% CaCl2
INTERMEDIATE	Lead		0	1187 0	970	3.6	10.3	3492	50	Tuned Light Blend	As needed
INTERMEDIATE	Tail		0	1187 0	250	1.08	16.4	370	50	Class H	As needed
PRODUCTION	Lead		0	1962 0	110	2.5	11.9	275	35	50:50:10 H Blend	As needed
PRODUCTION	Tail		0	1962 0	950	1.24	14.4	1175	35	50:50:2 Class H Blend	As needed

Well Name: SQUARE BILL FEDERAL COM Well Number: 1H

## **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: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

## **Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	РН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1170	OTHER : FW Gel	8.6	8.8							FW Gel
1170	1187 0	OTHER : Diesel Brine Emulsion	8.4	9							Diesel Brine Emulsion
1187 0	1962 0	OIL-BASED MUD	9.6	11			-				

## Section 6 - Test, Logging, Coring

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

None planned

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

CNL,GR

Coring operation description for the well:

None planned

Well Name: SQUARE BILL FEDERAL COM Well Number: 1H

#### Section 7 - Pressure

**Anticipated Bottom Hole Pressure: 7065** 

Anticipated Surface Pressure: 4346.68

Anticipated Bottom Hole Temperature(F): 180

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:

COG\_Square\_Bill\_1H\_H2S\_Schem\_03-28-2017.pdf COG\_Square\_Bill\_1H\_H2S\_SUP\_03-28-2017.pdf

#### Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

COG\_Square\_Bill\_1H\_AC\_Report\_03-28-2017.pdf COG\_Square\_Bill\_1H\_Direc\_Plan\_03-28-2017.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

COG\_Square\_Bill\_1H\_Drill\_Prog\_03-28-2017.pdf

Other Variance attachment:

COG\_Square\_Bill\_1H\_Flex\_Hose\_03-28-2017.pdf



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT SUPO Data Report 09/15/2017

APD ID: 10400012753

Operator Name: COG OPERATING LLC

Well Name: SQUARE BILL FEDERAL COM

Well Type: OIL WELL

Submission Date: 04/05/2017

Well Number: 1H

Well Work Type: Drill

Highlighted data reflects the most recent changes

**Show Final Text** 

## Section 1 - Existing Roads

Will existing roads be used? NO

## Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

**New Road Map:** 

COG\_Square\_Bill\_1H\_Maps\_Plats\_03-28-2017.pdf

New road type: TWO-TRACK

Length: 10180.4

Feet

Width (ft.): 30

Max slope (%): 33

Max grade (%): 1

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns.

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: Caliche

Well Name: SQUARE BILL FEDERAL COM Well Number: 1H

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: Blading

Access other construction information: No turnouts are planned. Re-routing access road around proposed well location.

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

#### **Drainage Control**

New road drainage crossing: OTHER

Drainage Control comments: None necessary.

Road Drainage Control Structures (DCS) description: None needed.

Road Drainage Control Structures (DCS) attachment:

#### **Access Additional Attachments**

Additional Attachment(s):

## Section 3 - Location of Existing Wells

**Existing Wells Map?** YES

Attach Well map:

COG\_Square\_Bill\_1H\_1\_Mile\_Map\_Data\_03-28-2017.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 will be sent to the Square Bill Central Tank Battery facility. A surface flow line of approximately 473.7 of 3" steel pipe carrying oil, gas and water under a maximum pressure of 125 psi will go to the facility at the Square Bill Central Tank Battery location. We plan to install a 4" surface polyethylene pipe transporting Gas Lift Gas from the Square Bill Central Tank Battery to the Square Bill Federal Com #1H. The surface Gas Lift Gas pipe of approximately 473.7' under a maximum pressure of 125 psi will be installed as per the flowline plat. **Production Facilities map:** 

COG\_Square\_Bill\_1H\_Prod\_Facility\_03-28-2017.pdf COG\_Square\_Bill\_1H\_Flowline\_04-05-2017.pdf

#### Section 5 - Location and Types of Water Supply

**Water Source Table** 

Well Name: SQUARE BILL FEDERAL COM

Well Number: 1H

Water source use type: INTERMEDIATE/PRODUCTION CASING

Water source type: OTHER

**Describe type:** Brine water will be obtained from the Salty Dog Brine station leasted in Section 5, T10S, P36F.

station located in Section 5. T19S. R36E.

Source longitude:

Source latitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Source land ownership: COMMERCIAL

Water source transport method: TRUCKING

Source transportation land ownership: COMMERCIAL

Water source volume (barrels): 30000 Source volume (acre-feet): 3.866793

Source volume (gal): 1260000

Water source type: OTHER

Water source use type: STIMULATION, SURFACE CASING

**Describe type:** Fresh water will be obtained from CP-1285 Water Well located in Section 5, T26S, R36F. The water will be purchased from

located in Section 5, T26S, R36E. The water will be purchased from

Dinwiddie Cattle Co LLC. PO Box 963 Capitan, NM 88354.

Source longitude:

Source latitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Source land ownership: PRIVATE

Water source transport method: PIPELINE

Source transportation land ownership: PRIVATE

Water source volume (barrels): 450000

Source volume (gal): 18900000

Source volume (acre-feet): 58.001892

#### Water source and transportation map:

COG\_Square\_Bill\_1H\_Brine\_H2O\_03-28-2017.pdf COG\_Square\_Bill\_1H\_Fresh\_H2O\_03-28-2017.pdf

**Water source comments:** Fresh water will be obtained from CP-1285 Water Well located in Section 5, T26S, R36E. The water will be purchased from Dinwiddie Cattle Co LLC. PO Box 963 Capitan, NM 88354. Brine water will be obtained from the Salty Dog Brine station located in Section 5. T19S. R36E.

New water well? NO

#### **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 Name: SQUARE BILL FEDERAL COM Well Number: 1H

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 will be obtained from the actual well site if available. If not available onsite, caliche will be obtained from Dinwiddie Cattle Company LLC caliche pit located in Section 18. T25S. R35E. Phone 575-364-2489.

**Construction Materials source location attachment:** 

## Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drilling fluids and produced oil and water during drilling and completion operations

Amount of waste: 6000

barrels

Waste disposal frequency: One Time Only

Safe containment description: All drilling waste will be stored safely and disposed of properly

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL

Disposal location ownership: COMMERCIAL

**FACILITY** 

Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Waste type: SEWAGE

Waste content description: Human waste and gray water

Amount of waste: 250

gallons

Waste disposal frequency: Weekly

Safe containment description: Waste will be properly contained and disposed of properly at a state approved disposal

Safe containment attachment:

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

**FACILITY** 

Well Name: SQUARE BILL FEDERAL COM Well Number: 1H

Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Waste type: GARBAGE

Waste content description: Garbage and trash produced during drilling and completion operations

Amount of waste: 125

pounds

Waste disposal frequency: Weekly

Safe containment description: Garbage and trash produced during drilling and completion operations will be collected in a

trash container and disposed of properly at a state approved disposal facility

Safe containmant attachment:

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

**FACILITY** 

Disposal type description:

Disposal location description: Trucked to an 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 Roll off cuttings containers on tracks

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

Well Name: SQUARE BILL FEDERAL COM

Well Number: 1H

## **Section 8 - Ancillary Facilities**

Are you requesting any Ancillary Facilities?: NO

**Ancillary Facilities attachment:** 

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

COG\_Square\_Bill\_1H\_Prod\_Facility\_03-28-2017.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: NEW

Recontouring attachment:

**Drainage/Erosion control construction:** If needed, immediately following pad construction approximately 200' of straw waddles will be placed on the southwest side of the west side, 400' on the south side, and 200' on the southeast side of the east side of the location to reduce sediment impacts to fragile/sensitive soils.

Wellpad short term disturbance (acres): 3.67

Pipeline short term disturbance (acres): 0

Other short term disturbance (acres): 0

Total short term disturbance: 6.94

Access road short term disturbance (acres): 3.27

Drainage/Erosion control reclamation: Reclaim the north side.

Wellpad long term disturbance (acres): 3.12

Access road long term disturbance (acres): 3.27

Pipeline long term disturbance (acres): 0

Other long term disturbance (acres): 0

Total long term disturbance: 6.39

Reconstruction method: New construction of pad.

Topsoil redistribution: North 70'

Soil treatment: None

Existing Vegetation at the well pad: Shinnery Oak/Mesquite grassland

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Shinnery Oak/Mesquite grassland

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: Shinnery Oak/Mesquite grassland

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: N/A

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Well Name: SQUARE BILL FEDERAL COM

Well Number: 1H

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: Rand

Last Name: French

Phone: (432)254-5556

Email: rfrench@concho.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: N/A

Weed treatment plan attachment:

Well Name: SQUARE BILL FEDERAL COM

Well Number: 1H

Monitoring plan description: N/A

Monitoring plan attachment:

Success standards: N/A

Pit closure description: N/A

Pit closure attachment:

COG Square Bill\_1H\_Closed\_Loop\_03-28-2017.pdf

## Section 11 - Surface Ownership

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? NO

Use APD as ROW?

ROW Type(s):

**ROW Applications** 

Well Name: SQUARE BILL FEDERAL COM Well Number: 1H

#### **SUPO Additional Information:**

Use a previously conducted onsite? YES

Previous Onsite information: Onsite completed on 2/1/2017 by Gerald Herrera (COG) and Jeff Robertson (BLM).

### **Other SUPO Attachment**

COG\_Square\_Bill\_1H\_Certification\_03-28-2017.pdf COG\_Square\_Bill\_1H\_GCP\_05-30-2017.pdf

### 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:

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:

PWD disturbance (acres):

## Section 3 - Unlined Pits

Injection well mineral owner:

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:	
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 Disso that of the existing water to be protected?	lved Solids (TDS) concentration equal to or less than
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? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Injection PWD discharge volume (bbl/day):	

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?

Other regulatory requirements attachment:

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

### **Bond Information**

Federal/Indian APD: FED

BLM Bond number: NMB000215

**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: