

OCA Artesia

Form 3160-3
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMLC031844

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
SHINER BOCK 1 FEDERAL COM 7H

2. Name of Operator
COG OPERATING LLC
Contact: ROBYN ODOM
E-Mail: rodom@conchoresources.com

9. API Well No.
30-015-42022-00-X1

3a. Address
ONE CONCHO CENTER 600 W ILLINOIS AVENUE
MIDLAND, TX 79701
3b. Phone No. (include area code)
Ph: 432-685-4385

10. Field and Pool, or Exploratory
FREN

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 1 T17S R31E SWSW 0990FSL 0150FWL
32.859032 N Lat, 103.820728 W Lon

11. County or Parish, and State
EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Change to Original APD
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

COG Operating LLC respectfully requests permission to change the originally approved location of this well to:
SHL: 1160' FSL & 170' FWL
BHL: 990' FSL & 330' FEL

This change was made to better accomodate well on same pad.
Attached is a revised C102, Directional Plan, and SUPO.

Accepted for record
NMOCD *TS*
5/20/14

RECEIVED
MAY 19 2014
NMOCD ARTESIA

Surface - See COAs TN 5/13/14
Drilling - original COAs still stand - JAM

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #234469 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by CHRISTOPHER WALLS on 04/29/2014 (14CRW0245SE)

Name (Printed/Typed) ROBYN ODOM

Title PERSON RESPONSIBLE

Signature (Electronic Submission)

Date 02/04/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Stephen J Coffey

For
Title FIELD MANAGER

Date 5/15/14

Conditions of approval, if any, are attached. Approval of this notice 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.

Office CARLSBAD FIELD OFFICE

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.

I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access road proposed herein; that I am familiar with the conditions that presently 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 COG Operating, LLC, 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. Executed this 3rd day of July, 2013.

Signed: _____

Carl Bird

Printed Name: Carl Bird

Position: Sr. Drilling Engineer

Address: One Concho Center, 600 W. Illinois, Midland, Texas 79701

Telephone: (432) 683-7443

Field Representative (if not above signatory): Same

E-mail: cbird@concho.com

Head Office
 1075 N. Front St., Santa Fe, NM 87503
 Phone: (505) 761-6161; Fax: (505) 793-2727
Alamogordo
 811 S. First St., Alamogordo, NM 88003
 Phone: (505) 744-1221; Fax: (505) 744-9720
Las Alamos
 1600 Rio Pecos Road, Alamosa, NM 87410
 Phone: (505) 331-6178; Fax: (505) 331-6173
Las Lunas
 1220 S. St. Francis Pl., Santa Fe, NM 87502
 Phone: (505) 426-6600; Fax: (505) 426-3462

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 30-015-39704	² Pool Code 97213	³ Pool Name FREN; GLORIETA-YESO, EAST
⁴ Property Code	⁵ Property Name SHINER BOCK 1 FED COM	
⁶ Well Number 7H	⁷ Elevation 3998'	
⁸ OGRIN No. 229137	⁹ Operator Name COG OPERATING, LLC	

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	1	17-S	31-E		1160	SOUTH	170	WEST	EDDY

Bottom 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
P	1	17-S	31-E		990	SOUTH	330	EAST	EDDY

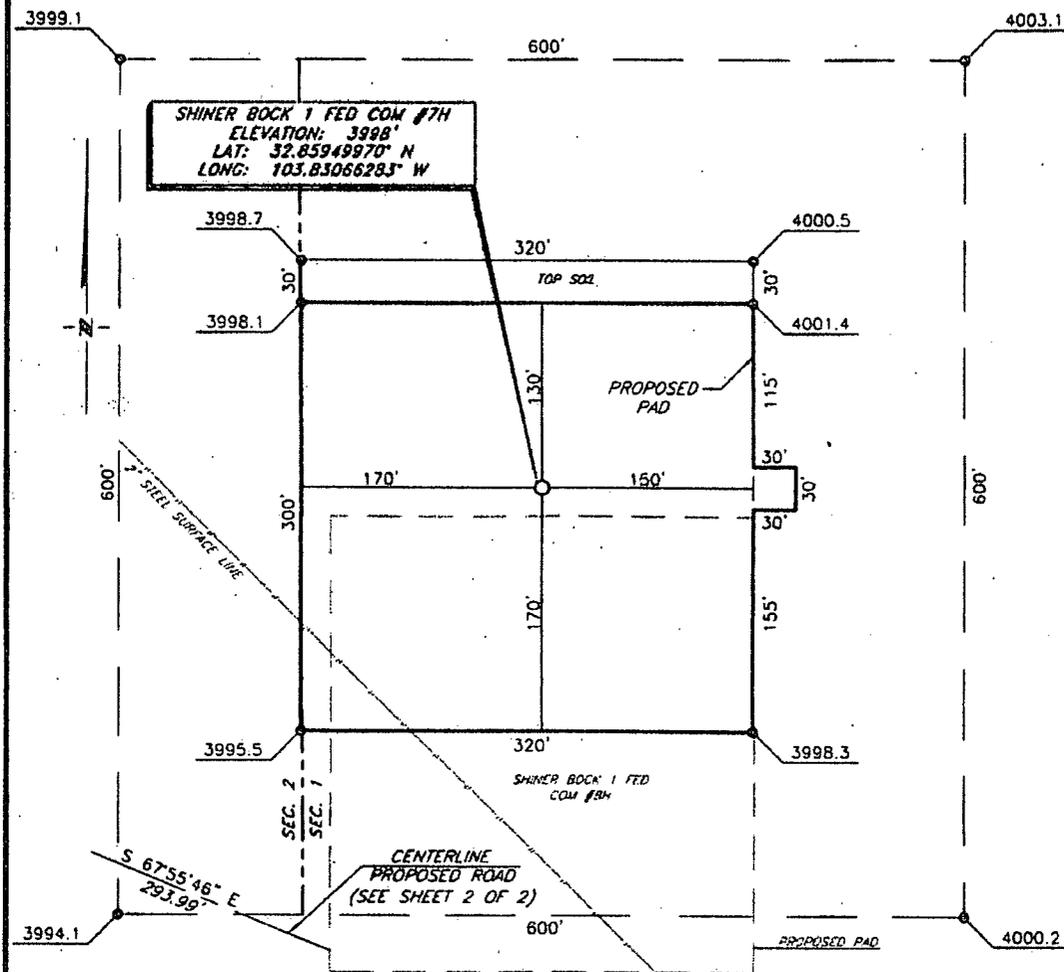
¹⁰ Dedicated Acres 160	¹¹ Joint or Infill	¹² Consolidation Code	¹³ Order No.
--------------------------------------	-------------------------------	----------------------------------	-------------------------

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

<p style="text-align: center;"> GEODETIC DATA NAD 27 GRID - NM EAST SURFACE LOCATION N 878764.7 E 654355.0 LAT: 32.85849970° N LONG: 103.83066285° W BOTTOM LOCATION N 876628.0 E 659137.8 DETAIL "A" 3998' 600' 4003' 600' 3984' 4000' S 88°21'48" E (GRID) 4785.84' (HORIZ.) SEE DETAIL "A" Producing Area Project Area </p>	<p>"OPERATOR CERTIFICATION" I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that the information is true over a working interest or mineral interest in the land including the proposed bottom hole location or has a right to drill the well at this location pursuant to a contract with an owner of such a mineral or working interest or to a voluntary pooling agreement or a compulsory pooling order as now or hereafter amended by the division.</p> <p style="text-align: right;"> 1/21/2014 Signature Date Robyn M. Odom Printed Name Rodom@concho.com E-mail Address </p> <p>"SURVEYOR CERTIFICATION" I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p style="text-align: right;"> 12/9/13 Date of Survey Signature and Seal of Professional Surveyor 19680 Certificate Number </p>
--	---

COG OPERATING, LLC

Shiner Bock 1 Fed Com #7H
 (1160' FSL & 170' FWL)
 Section 1, T-17-S, R-31-E,
 N. M. P. M., Eddy Co., New Mexico



DIRECTIONS TO LOCATION

From the intersection of U.S. Hwy. #82 and CR-223 (Sweet Gum).
 Go Northeast on U.S. Hwy. #82 approx. 1.5 miles.
 Turn left on a lease road and go Northwest approx. 0.3 mile.
 Turn right and go North approx. 0.2 mile.
 Turn right and go Northeast approx. 0.5 mile.
 Turn left and go North approx. 2.0 miles.
 Turn right and go East approx. 0.4 mile.
 Turn right and go South approx. 0.1 mile.
 Turn left on a two tract road go Southwest 0.1 mile to the Alamo State BCK #4;
 The location is 530' Northeast of the existing Alamo Resources Pumping Unit.

Copyright 2012 - All Rights Reserved

NO.	REVISION	DATE
JOB NO.: LS130524		
DWG. NO.: 130524PAD		

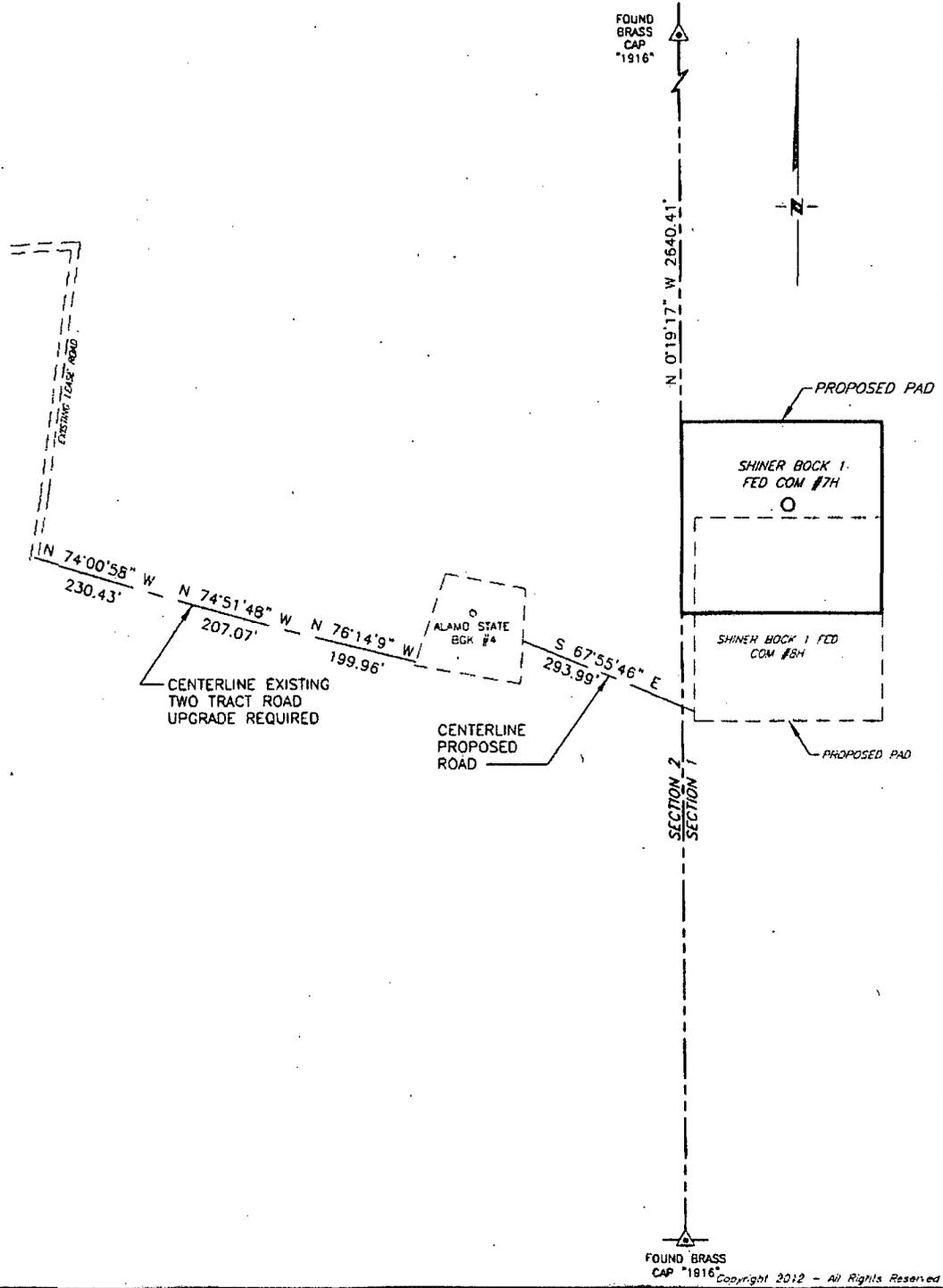
PROSPERITY CONSULTANTS, LLC



2751 Double Creek Drive, Suite 607, Round Rock, Texas 78664 o (512) 992-2087 f (512) 251-2318

SCALE: 1" = 100'
DATE: 12/9/13
SURVEYED BY: GB/JW
DRAWN BY: JC
APPROVED BY: LWB
SHEET : 1 OF 2

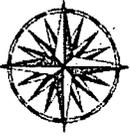
COG OPERATING, LLC
Access Road
Shiner Bock 1 Fed Com #7H
(1160' FSL & 170' FEL)
Section 1, T-17-S, R-31-E,
N. M. P. M., Eddy Co., New Mexico



NO.	REVISION	DATE
JOB NO.: LS130524		
DWG. NO.: 130524RD		

PROSPERITY CONSULTANTS, LLC

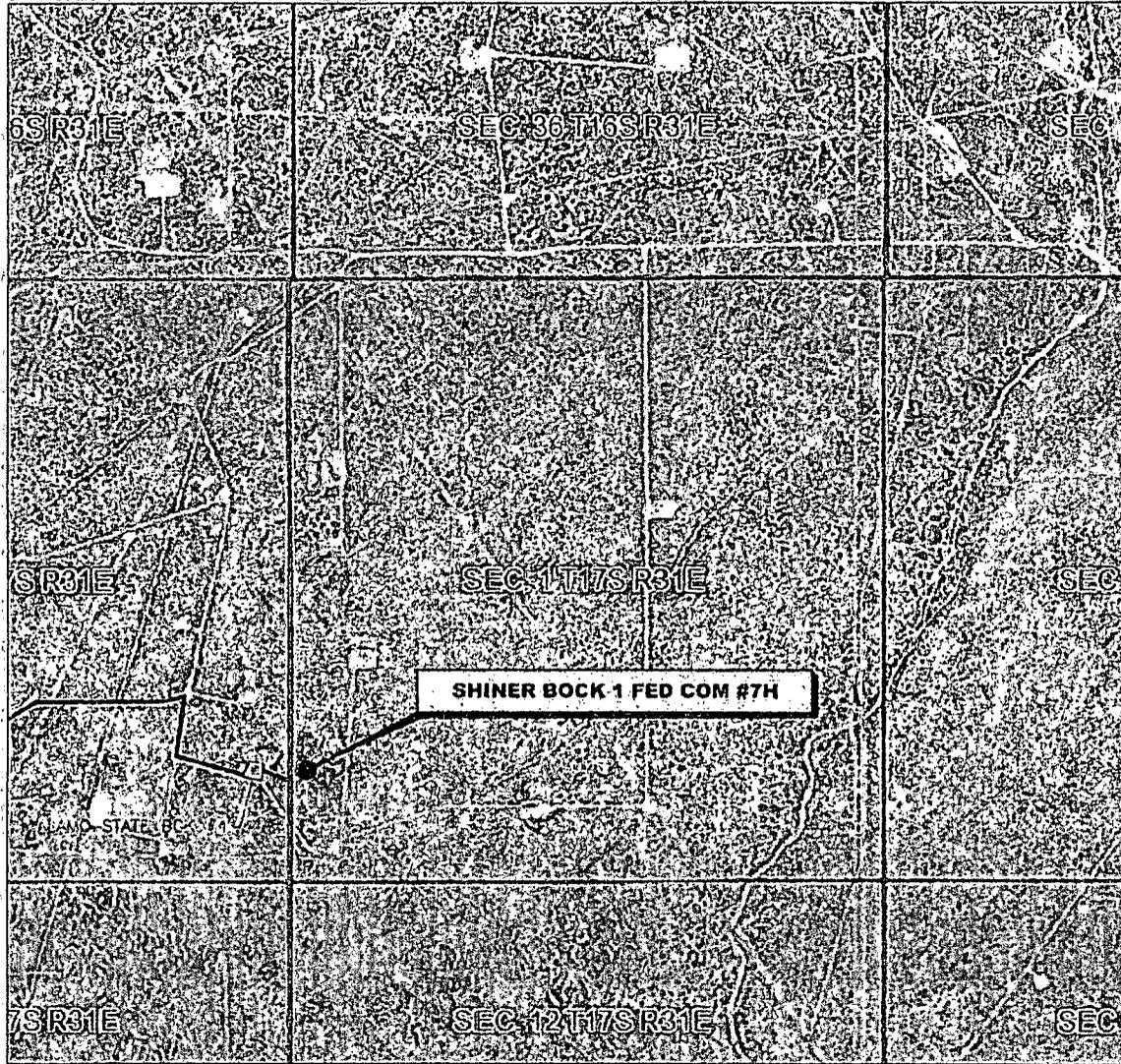
2251 Double Creek Drive, Suite 002, Round Rock, Texas 78664 o (512) 992-2087 f (512) 251-2518



SCALE: 1" = 200'
DATE: 12/9/13
SURVEYED BY: GB/JW
DRAWN BY: JC
APPROVED BY: LWB
SHEET : 2 OF 2

VICINITY MAP

NOT TO SCALE



SECTION 1, TWP. 17 SOUTH, RGE. 31 EAST,
N. M. P. M., EDDY COUNTY, NEW MEXICO

OPERATOR: COG Operating, LLC
LEASE: Shiner Bock 1 Fed Com
WELL NO.: 7H

LOCATION: 1160' FSL & 170' FWL
ELEVATION: 3998'

Copyright 2012 - All Rights Reserved

NO.	REVISION	DATE
JOB NO.: LS130524		
DWG. NO.: 130524VM		

PROSPERITY CONSULTANTS, LLC

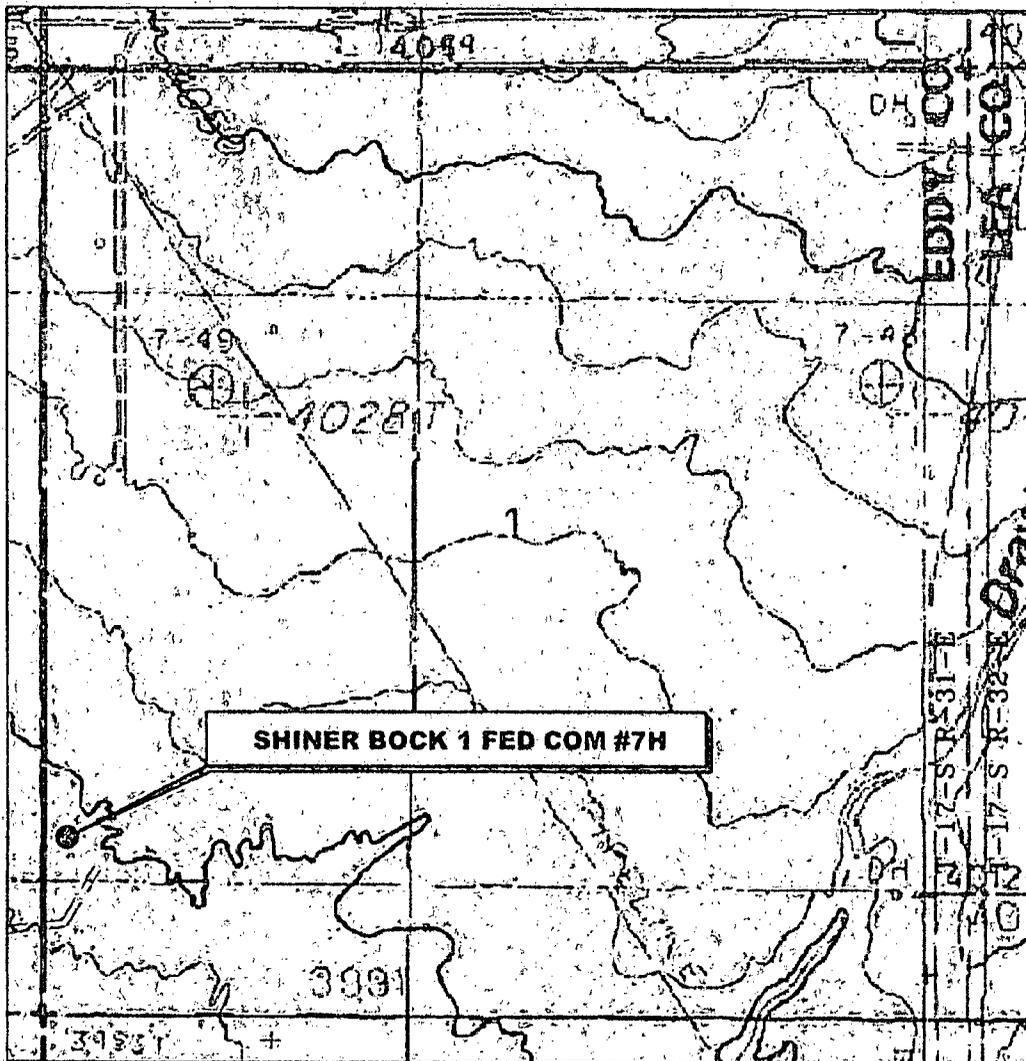


2251 Double Creek Drive, Suite 602, Round Rock, Texas 78664

o (512) 992-2087 / (512) 251-2518

SCALE: NONE
DATE: 12/9/13
SURVEYED BY: GB/JW
DRAWN BY: JC
APPROVED BY: LWB
SHEET: 1 OF 1

LOCATION VERIFICATION MAP



SECTION 1, TWP. 17 SOUTH, RGE. 31 EAST,
N. M. P. M., EDDY COUNTY, NEW MEXICO

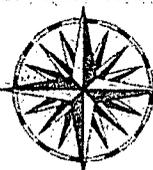
OPERATOR: COG Operating, LLC
 LEASE: Shiner Bock 1 Fed Com
 WELL NO.: 7H
 ELEVATION: 3998'

LOCATION: 1160' FSL & 170' FWL
 CONTOUR INTERVAL: 10'
 USGS TOPO. SOURCE MAP:
Maljamar, NM. (Prov. Ed. 1985)

Copyright 2012 - All Rights Reserved.

NO.	REVISION	DATE
JOB NO.: LS130524		
DWG. NO.: 130524LVM		

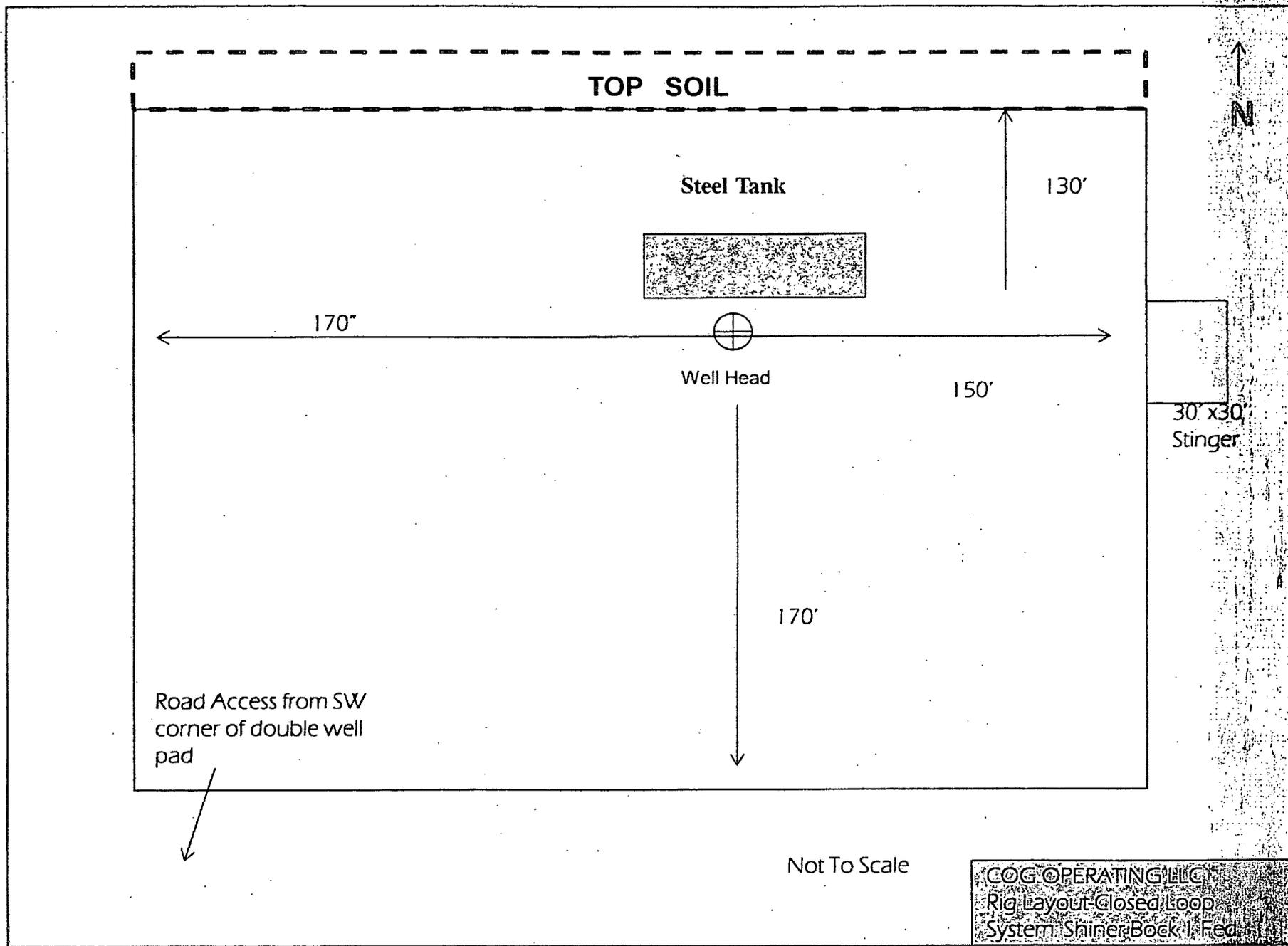
PROSPERITY CONSULTANTS, LLC



2251 Double Creek Drive, Suite 602, Round Rock, Texas 78664

(512) 992-2087 / (512) 251-2518

SCALE: 1" = 1000'
DATE: 12/9/13
SURVEYED BY: GB/JW
DRAWN BY: JC
APPROVED BY: LWB
SHEET : 1 OF 1



TOP SOIL

Steel Tank

130'

170'

Well Head

150'

30' x 30'
Stinger

170'

Road Access from SW
corner of double well
pad

Not To Scale

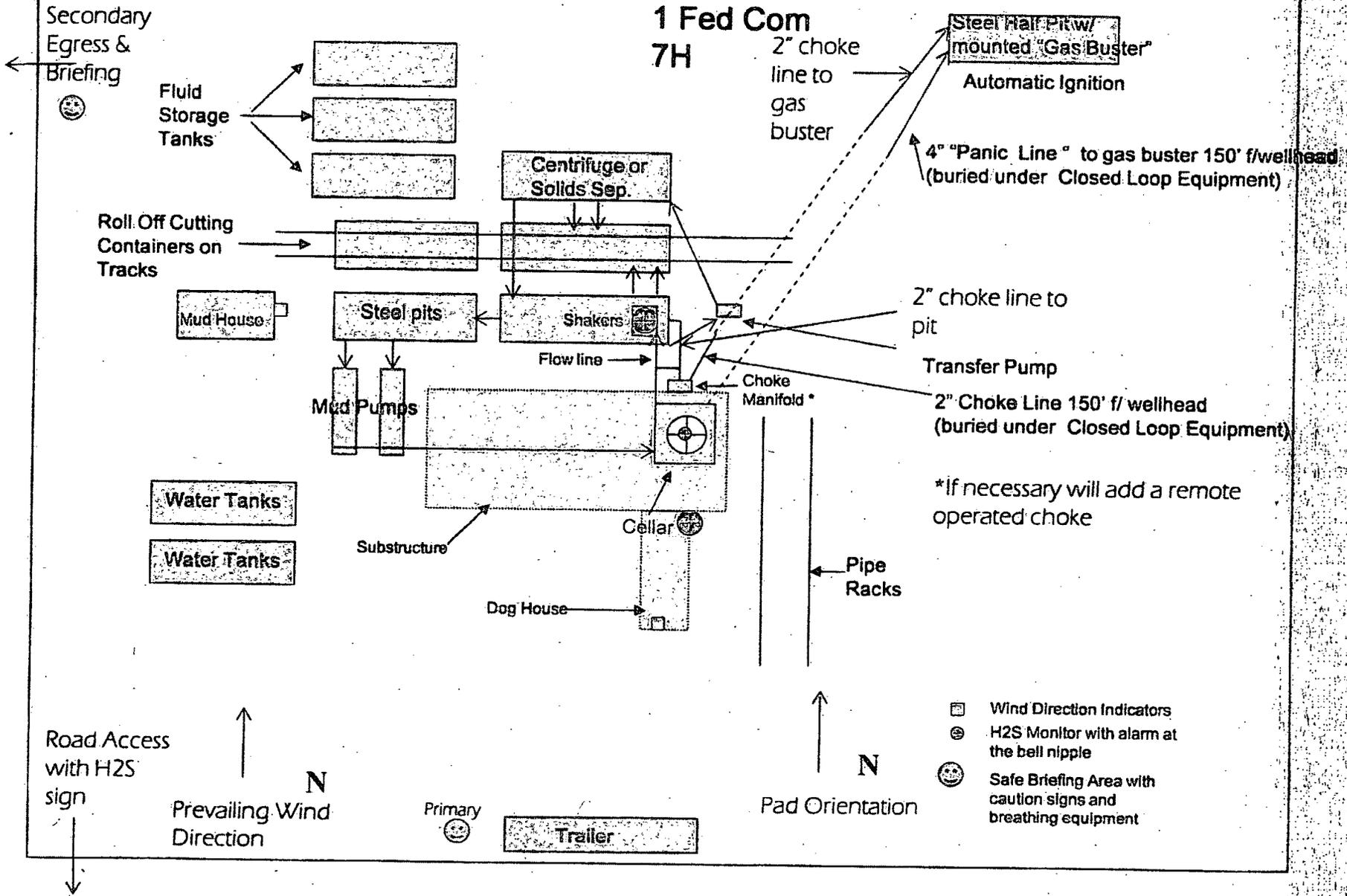
COG OPERATING LLC
Rig Layout - Closed Loop
System: Shiner Bock 1 Fed

Com 7H

COG Operating LLC

Drilling Location - H2S Safety Equipment Diagram

EXHIBIT 8- Shiner Bock 1 Fed Com 7H



- ☐ Wind Direction Indicators
- ⊕ H2S Monitor with alarm at the bell nipple
- 😊 Safe Briefing Area with caution signs and breathing equipment

*If necessary will add a remote operated choke

320



This area will be reclaimed to the anchors on steel pit side. 50' will be reclaimed towards the wellhead

30' will be reclaimed on motor side of pad

60' will be reclaimed on Vdoorside of pad



anchor



anchor



Well Head



anchor



anchor

Stinger removed

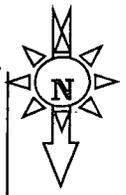
30' x 30' Stinger

300

Road Access from SW corner of double well pad

Not To Scale

COG OPERATING LLC
Rig Layout Closed Loop
Interim reclamation plat



No new disturbance will be necessary
300' 70'
Shiner Bock 1 Fed Com 8H Production Facility

Interim
reclamation
20' Access
road

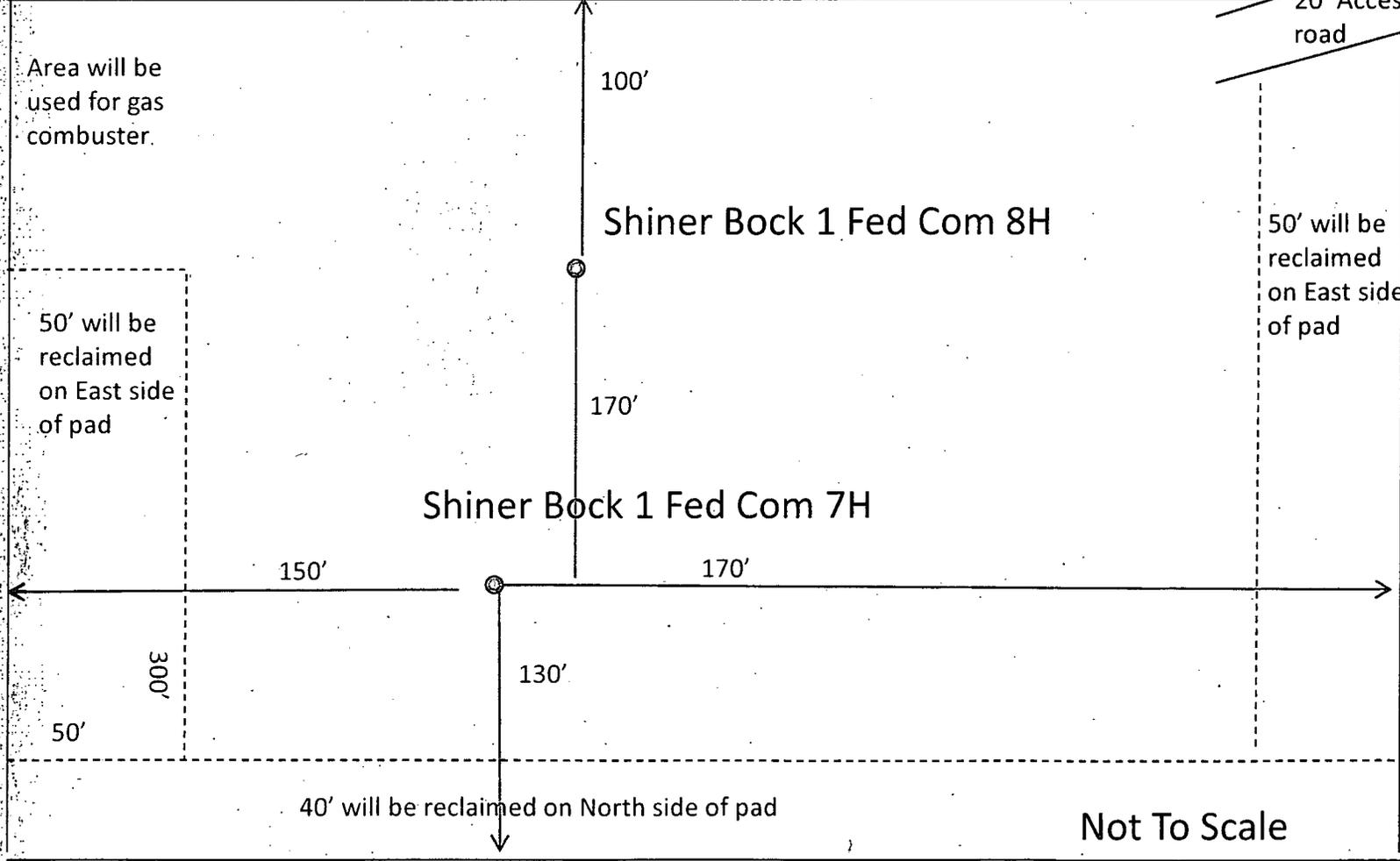
Area will be
used for gas
combuster.

Shiner Bock 1 Fed Com 8H

50' will be
reclaimed
on East side
of pad

50' will be
reclaimed
on East side
of pad

Shiner Bock 1 Fed Com 7H



40' will be reclaimed on North side of pad

Not To Scale

Surface Use & Operating Plan

Shiner Bock 1 Federal Com 7H

- Surface Tenant: Olane Caswell, 1702 Gillham, Brownfield, TX 79316.
- New Road: approx. 293.99' & 637.46' of road upgrade (to double pad)
- Flow Line: approx. 300'
- Facilities: Shiner Bock 1 Federal Com 8H Tank Battery

Well Site Information

V Door: East

Topsoil: North

Interim Reclamation: North/East/West of double well pad

Notes

-shares location with Shiner Bock 1 Fed Com #8H

Onsite: 2/28/2013

Tanner (BLM), Caden Jameson (COG), Gary Box (P.C.)

SURFACE USE AND OPERATING PLAN

1. Existing & Proposed Access Roads

- A. The well site survey and elevation plat for the proposed well is attached with this application. It was staked by Prosperity Consultants, LLC, Midland, TX.
- B. All roads to the location are shown in the Vicinity Map. The existing lease roads are illustrated and are adequate for travel during drilling and production operations. Upgrading existing roads prior to drilling the well will be done where necessary. The road route to the well site is depicted in Vicinity Map. The road highlighted in the Vicinity Map will be used to access the well.
- C. Directions to location: See Vicinity Map.
- D. Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease. Roads will be maintained according to specifications in section 2A of this Surface Use and Operating Plan.

2. Proposed Access Road:

The Elevation Plat shows that 293.99' of new access road will be required for this location. If any road is required it will be constructed as follows:

- A. The maximum width of the running surface will be 14'. The road will be crowned, ditched and constructed of 6" rolled and compacted caliche. Ditches will be at 3:1 slope and 4 feet wide. Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns.
- B. The average grade will be less than 1%.
- C. No turnouts are planned.
- D. No culverts, cattleguard, gates, low water crossings or fence cuts are necessary.
- E. Surfacing material will consist of native caliche. Caliche will be obtained from the actual well site if available. If not available onsite, caliche will be hauled from the nearest BLM approved caliche pit.

Surface Use Plan

COG Operating, LLC

Shiner Bock 1 Federal Com 7H

SL: 1160' FSL & 170' FWL UL M

Section 1, T-17-S, R-31-E

BHL: 990' FSL & 330' FEL UL P

Section 1, T-17-S, R-31-E

Eddy County, New Mexico

3. Location of Existing Well:

The 1-mile Map shows all existing wells within a one-mile radius of this well.

As shown on this plat there are numerous wells producing from the San Andres and Yeso formations.

4. Location of Existing and/or Proposed Facilities:

- A. COG Operating LLC does operate a production facility on this lease.
- B. If the well is productive, contemplated facilities will be as follows:
 - 1) Production will be sent to Shiner Bock 1 Federal Com #8 Tank Battery located in Section 1 at approx. 990' FSL & 150' FWL in T17S R31E. The facility location is shown in Exhibit #1.
 - 2) The tank battery and facilities including all flow lines and piping will be installed according to API specifications.
 - 3) Any additional caliche will be obtained from the actual well site. If caliche does not exist or is not plentiful from the well site, the caliche will be hauled from a BLM approved caliche pit. Any additional construction materials will be purchased from contractors.
 - 4) Proposed flow lines, will follow an archaeologically approved route to the Shiner Bock 1 Federal Com #8 Tank Battery located in Section 1 at approx. 990' FSL & 150' FWL in T17S R31E. The flowline will be SDR 7 3" poly line laid on the surface and will be approximately 300' in length. See Exhibit 1.
 - 5) It will be necessary to run electric power if this well is productive. Power will be provided by CVE and they will submit a separate plan and ROW for service to the well location.
 - 6) If the well is productive, rehabilitation plans will include the following:
 - The original topsoil from the well site will be returned to the location, and the site will be re-contoured as close as possible to the original site.

Surface Use Plan

COG Operating, LLC

Shiner Bock 1 Federal Com 7H

SL: 1160' FSL & 170' FWL UL M

Section 1, T-17-S, R-31-E

BHL: 990' FSL & 330' FEL UL P

Section 1, T-17-S, R-31-E

Eddy County, New Mexico

5. Location and Type of Water Supply:

The well will be drilled with combination brine and fresh water mud system as outlined in the drilling program. The water will be obtained from commercial water stations in the area and hauled to location by transport truck over the existing and proposed access roads shown in Vicinity Map. If a commercial fresh water source is nearby, fast line may be laid along existing road ROW's and fresh water pumped to the well. No water well will be drilled on the location.

6. Source of Construction Materials and Location "Turn-Over" Procedure:

Obtaining caliche: The primary way of obtaining caliche to build locations and roads will be by "turning over" the location. This means, caliche will be obtained from the actual well sight. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cu. Yards is max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel:

- A. The top 6 inches of topsoil is pushed off and stockpiled along the side of the location.
- B. An approximate 120' X 120' area is used within the proposed well site to remove caliche.
- C. Subsoil is removed and piled alongside the 120' by 120' area within the pad site.
- D. When caliche is found, material will be stock piled within the pad site to build the location and road.
- E. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road.
- F. Once well is drilled, the stock piled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stock piled outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in attached plat.
 - In the event that no caliche is found onsite, caliche will be hauled in from a BLM approved caliche pit.

7. Methods of Handling Water Disposal:

- A. The well will be drilled utilizing a closed loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to an NMOCD approved disposal site.
- B. Drilling fluids will be contained in steel mud pits.
- C. Water produced from the well during completion will be held temporarily in steel tanks and then taken to an NMOCD approved commercial disposal facility.
- D. Garbage and trash produced during drilling or completion operations will be collected in a trash bin and hauled to an approved landfill. No toxic waste or hazardous chemicals will be produced by this operation.
- E. Human waste and grey water will need to be properly contained and disposed of. Proper disposal and elimination of waste and grey water may include but are not limited to portable septic systems and/or portable waste gathering systems (i.e. portable toilets).
- F. After the rig is moved out and the well is either completed or abandoned, all waste materials will be cleaned up within 30 days. In the event of a dry hole only a dry hole marker will remain.

8. Ancillary Facilities:

No airstrip, campsite or other facilities will be built as a result of the operation on this well.

9. Well Site Layout:

- A. The drill pad layout, with elevations staked by Prosperity Consultants, LLC, is shown in the Elevation Plat. Dimensions of the pad and pits are shown on the Rig Layout. V door direction is North. Topsoil, if available, will be stockpiled per BLM specifications. Because the pad is almost level no major cuts will be required.
- B. The Rig Layout Closed-Loop exhibit shows the proposed orientation of closed loop system and access road. No permanent living facilities are planned, but a temporary foreman/toolpusher's trailer will be on location during the drilling operations.

Surface Use Plan

COG Operating, LLC

Shiner Bock 1 Federal Com 7H

SL: 1160' FSL & 170' FWL UL M

Section 1, T-17-S, R-31-E

BHL: 990' FSL & 330' FEL UL P

Section 1, T-17-S, R-31-E

Eddy County, New Mexico

10. Plans for Restoration of the Surface:

- A. Interim Reclamation will take place after the well has been completed. The pad will be downsized by reclaiming the areas not needed for production operations. The portions of the pad that are not needed for production operations will be re-contoured to its original state as much as possible. The caliche that is removed will be reused to either build another pad site or for road repairs within the lease. The stockpiled topsoil will then be spread out reclaimed area and reseeded with a BLM approved seed mixture. In the event that the well must be worked over or maintained, it may be necessary to drive, park, and/or operate machinery on reclaimed land. This area will be repaired or reclaimed after work is complete.
- B. Final Reclamation: Upon plugging and abandoning the well all caliche for well pad and lease road will be removed and surface will be recontoured to reflect its surroundings as much as possible. Caliche will be recycled for road repair or reused for another well pad within the lease. If any topsoil remains, it will be spread out and the area will be reseeded with a BLM approved mixture and re-vegetated as per BLM orders.

11. Surface Ownership:

- A. The surface is owned by the U.S. Government and is administered by the Bureau of Land Management. The surface is multiple uses with the primary uses of the region for grazing of livestock and the production of oil and gas.
- B. The surface tenant for this site is Olane Caswell, 1702 Gillham, Brownfield, TX 79316.
- C. The proposed road routes and surface location will be restored as directed by the BLM

Surface Use Plan
COG Operating, LLC
Shiner Bock 1 Federal Com 7B
SL: 1160' FSL & 170' FWL UL M
Section 1, T-17-S, R-31-E
BHL: 990' FSL & 330' FEL UL P
Section 1, T-17-S, R-31-E
Eddy County, New Mexico

12. Other Information:

- A. The area around the well site is grassland and the topsoil is sandy. The vegetation is moderately sparse with native prairie grasses, some mesquite and shinnery oak. No wildlife was observed but it is likely that mule deer, rabbits, coyotes and rodents traverse the area.
- B. There is no permanent or live water in the immediate area.
- C. There are no dwellings within 2 miles of this location.
- D. If needed, a Cultural Resources Examination is being prepared by Boone Arch Services of New Mexico, LLC. Carlsbad, NM, 88220. 506 E Chapman Rd. , phone # 575.887.7667 and the results will be forwarded to your office in the near future. Otherwise, **COG will be participating in the Permian Basin MOA Program.**

13. Bond Coverage:

Bond Coverage is Nationwide Bond # 000215

14. Lessee's and Operator's Representative:

The COG Operating LLC representative responsible for assuring compliance with the surface use plan is as follows:

Jim Evans	Ray Peterson
Drilling Superintendent	Drilling Manager
COG Operating LLC	COG Operating LLC
One Concho Center	One Concho Center
600 W. Illinois	600 W. Illinois
Midland, TX 79701	Midland, TX 79701
Phone (432) 685-4304 (office)	Phone (432) 685-4304 (office)
(432) 221-0346 (business)	(432) 818-2254 (business)

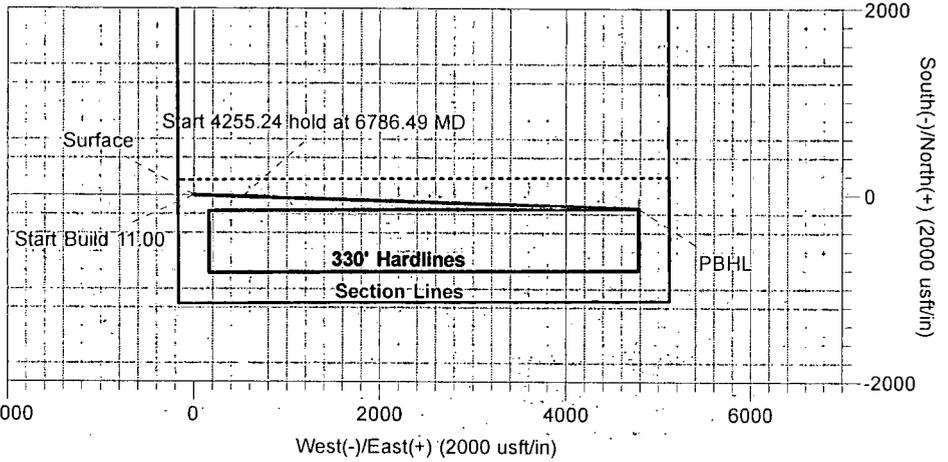
COG OPERATING, LLC

Field: Eddy County, NM
 Site: Shiner Bock 1 FED.COM 7H
 Well: 7H
 Wellbore: Lateral
 Plan: Plan #1



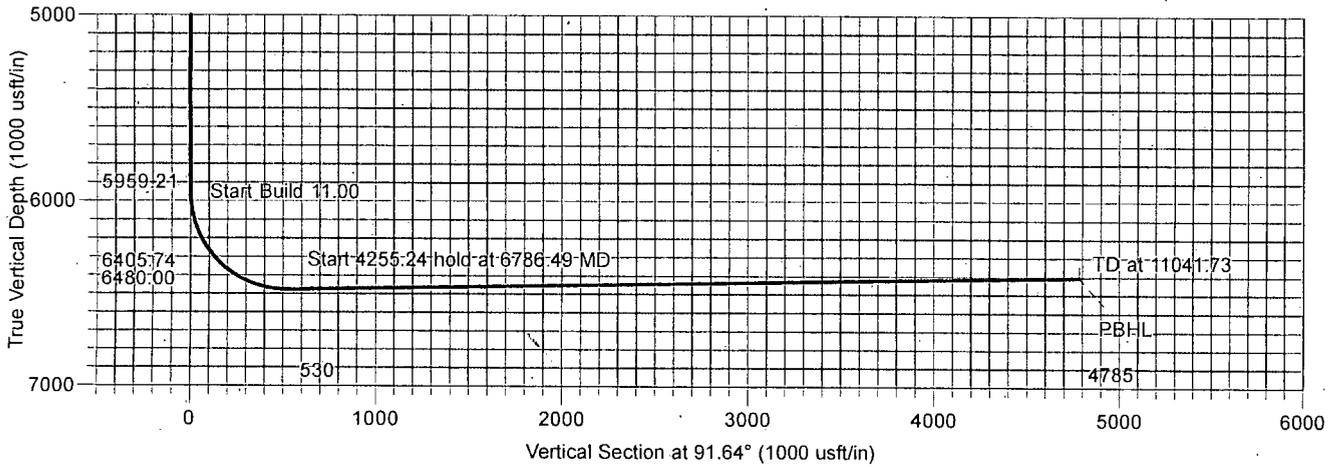
Azimuths to Grid North
 True North: -0.27°
 Magnetic North: 7.16°

Magnetic Field
 Strength: 48734.5snT
 Dip Angle: 60.66°
 Date: 1/23/2014
 Model: IGRF2010



Section Distances

Sec1,T17S,R31E
 SHL - Unit M
 1159.8'FSL, 170.1'FWL
 PBHL - Unit P
 989.7'FSL, 330.0'FEL



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Shiner 7H Surface	0.00	0.00	0.00	676764.70	654355.00	32° 51' 34.20 N	103° 49' 50.39 W	Point
Shiner 7H PBHL	6405.74	-136.70	4782.60	676628.00	659137.60	32° 51' 32.62 N	103° 48' 54.33 W	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	5959.21	0.00	0.00	5959.21	0.00	0.00	0.00	0.00	0.00	
3	6786.49	91.00	91.64	6480.00	-15.14	529.74	11.00	91.64	529.96	
4	11041.73	91.00	91.64	6405.74	-136.70	4782.60	0.00	0.00	4784.55	Shiner 7H PBHL



ARCHER DIRECTIONAL DRILLING SERVICES
 12101 Cutton Rd. Houston, Texas 77066
 Phone: 281-301-2600 Fax: 281-301-2795

Design: Plan #1 (7H/Lateral)
 Created By: Ivonne Gonzalez
 Date: 10:43, January 23 2014

COG OPERATING, LLC

Eddy County, NM
Shiner Bock 1 FED COM 7H
7H

Lateral

Plan: Plan #1

Standard Planning Report

23 January, 2014

Section Distances

Sec1,T17S,R31E
SHL - Unit M
1159.8'FSL, 170.1'FWL
PBHL - Unit P
989.7'FSL, 330.0'FEL

Archer Planning Report

Database:	EDM-R5000.1 MULTI	Local Co-ordinate Reference:	Well: 7H
Company:	COG OPERATING LLC	TVD Reference:	WELL @ 0.00usft (Original Well Elev)
Project:	Eddy County, NM	MD Reference:	WELL @ 0.00usft (Original Well Elev)
Site:	Shiner Bock 1 FED COM 7H	North Reference:	Grid
Well:	7H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #1		

Project:	Eddy County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Shiner Bock 1 FED COM 7H		
Site Position:	Northing:	676,764.70 usft	Latitude: 32° 51' 34.20 N
From: Map	Easting:	654,355.00 usft	Longitude: 103° 49' 50.39 W
Position Uncertainty: 0.00 usft	Slot Radius:	13.200 in	Grid Convergence: 0.27 °

Well:	7H		
Well Position	+N-S	0.00 usft	Northing: 676,764.70 usft
	+E-W	0.00 usft	Easting: 654,355.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level: 0.00 usft

Wellbore:	Lateral		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	1/23/2014	(°) 7.43
			Dip Angle (°) 60.66
			Field Strength (nT) 48,735

Design:	Plan #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction (°) 91.64

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,959.21	0.00	0.00	5,959.21	0.00	0.00	0.00	0.00	0.00	0.00	
6,786.49	91.00	91.64	6,480.00	-15.14	529.74	11.00	11.00	0.00	91.64	
11,041.73	91.00	91.64	6,405.74	-136.70	4,782.60	0.00	0.00	0.00	0.00	Shiner 7H PBHL

Archer Planning Report

Database:	EDM R50001 MULTI	Local Co-ordinate Reference:	Well 7H
Company:	COG OPERATING, LLC	TVD Reference:	WELL @ 0.00usft (Original Well Elev)
Project:	Eddy County, NM	MD Reference:	WELL @ 0.00usft (Original Well Elev)
Site:	Shiner Bock 1 FED COM 7H	North Reference:	Grid
Well:	7H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Archer Planning Report

Database:	EDM R5000.1.MULTI	Local Co-ordinate Reference:	Well 7H:
Company:	GOG OPERATING, LLC	TVD Reference:	WELL @ 0.00usft (Original Well Elev)
Project:	Eddy County, NM	MD Reference:	WELL @ 0.00usft (Original Well Elev)
Site:	Shiner Bock 1 FED COM 7H	North Reference:	Grid
Well:	7H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #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)		
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,959.21	0.00	0.00	5,959.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 11.00											
6,000.00	4.49	91.64	5,999.96	-0.05	1.60	1.60	11.00	11.00	0.00		
6,050.00	9.99	91.64	6,049.54	-0.23	7.89	7.89	11.00	11.00	0.00		
6,100.00	15.49	91.64	6,098.29	-0.54	18.90	18.91	11.00	11.00	0.00		
6,150.00	20.99	91.64	6,145.76	-0.99	34.54	34.55	11.00	11.00	0.00		
6,200.00	26.49	91.64	6,191.52	-1.56	54.65	54.67	11.00	11.00	0.00		
6,250.00	31.99	91.64	6,235.13	-2.26	79.05	79.08	11.00	11.00	0.00		
6,300.00	37.49	91.64	6,276.20	-3.07	107.52	107.56	11.00	11.00	0.00		
6,350.00	42.99	91.64	6,314.36	-4.00	139.79	139.85	11.00	11.00	0.00		
6,400.00	48.49	91.64	6,349.24	-5.02	175.57	175.64	11.00	11.00	0.00		
6,450.00	53.99	91.64	6,380.53	-6.13	214.52	214.61	11.00	11.00	0.00		
6,500.00	59.49	91.64	6,407.95	-7.33	256.30	256.40	11.00	11.00	0.00		
6,550.00	64.99	91.64	6,431.23	-8.59	300.51	300.63	11.00	11.00	0.00		
6,600.00	70.49	91.64	6,450.17	-9.91	346.74	346.89	11.00	11.00	0.00		
6,650.00	75.99	91.64	6,464.58	-11.28	394.58	394.74	11.00	11.00	0.00		
6,700.00	81.49	91.64	6,474.34	-12.68	443.58	443.76	11.00	11.00	0.00		
6,750.00	86.99	91.64	6,479.36	-14.10	493.29	493.49	11.00	11.00	0.00		
6,786.49	91.00	91.64	6,480.00	-15.14	529.74	529.96	11.00	11.00	0.00		
Start 4255.24 hold at 6786.49 MD											
6,800.00	91.00	91.64	6,479.77	-15.53	543.25	543.47	0.00	0.00	0.00		
6,900.00	91.00	91.64	6,478.02	-18.38	643.20	643.46	0.00	0.00	0.00		
7,000.00	91.00	91.64	6,476.28	-21.24	743.14	743.44	0.00	0.00	0.00		
7,100.00	91.00	91.64	6,474.53	-24.10	843.08	843.43	0.00	0.00	0.00		
7,200.00	91.00	91.64	6,472.79	-26.95	943.03	943.41	0.00	0.00	0.00		
7,300.00	91.00	91.64	6,471.04	-29.81	1,042.97	1,043.40	0.00	0.00	0.00		
7,400.00	91.00	91.64	6,469.30	-32.67	1,142.92	1,143.38	0.00	0.00	0.00		
7,500.00	91.00	91.64	6,467.55	-35.52	1,242.86	1,243.37	0.00	0.00	0.00		
7,600.00	91.00	91.64	6,465.81	-38.38	1,342.80	1,343.35	0.00	0.00	0.00		
7,700.00	91.00	91.64	6,464.06	-41.24	1,442.75	1,443.34	0.00	0.00	0.00		
7,800.00	91.00	91.64	6,462.32	-44.09	1,542.69	1,543.32	0.00	0.00	0.00		
7,900.00	91.00	91.64	6,460.57	-46.95	1,642.64	1,643.31	0.00	0.00	0.00		
8,000.00	91.00	91.64	6,458.83	-49.81	1,742.58	1,743.29	0.00	0.00	0.00		
8,100.00	91.00	91.64	6,457.08	-52.66	1,842.52	1,843.28	0.00	0.00	0.00		
8,200.00	91.00	91.64	6,455.34	-55.52	1,942.47	1,943.26	0.00	0.00	0.00		
8,300.00	91.00	91.64	6,453.59	-58.38	2,042.41	2,043.25	0.00	0.00	0.00		
8,400.00	91.00	91.64	6,451.84	-61.23	2,142.36	2,143.23	0.00	0.00	0.00		
8,500.00	91.00	91.64	6,450.10	-64.09	2,242.30	2,243.21	0.00	0.00	0.00		
8,600.00	91.00	91.64	6,448.35	-66.95	2,342.24	2,343.20	0.00	0.00	0.00		
8,700.00	91.00	91.64	6,446.61	-69.80	2,442.19	2,443.18	0.00	0.00	0.00		
8,800.00	91.00	91.64	6,444.86	-72.66	2,542.13	2,543.17	0.00	0.00	0.00		
8,900.00	91.00	91.64	6,443.12	-75.52	2,642.07	2,643.15	0.00	0.00	0.00		
9,000.00	91.00	91.64	6,441.37	-78.37	2,742.02	2,743.14	0.00	0.00	0.00		
9,100.00	91.00	91.64	6,439.63	-81.23	2,841.96	2,843.12	0.00	0.00	0.00		
9,200.00	91.00	91.64	6,437.88	-84.09	2,941.91	2,943.11	0.00	0.00	0.00		
9,300.00	91.00	91.64	6,436.14	-86.94	3,041.85	3,043.09	0.00	0.00	0.00		
9,400.00	91.00	91.64	6,434.39	-89.80	3,141.79	3,143.08	0.00	0.00	0.00		

Archer Planning Report

Database:	EDM R5000.1 MULTI	Local Co-ordinate Reference:	Well 7H
Company:	COG OPERATING, LLC	TVD Reference:	WELL @ 0.00usft (Original Well Elev)
Project:	Eddy County, NM	MD Reference:	WELL @ 0.00usft (Original Well Elev)
Site:	Shiner Bock 1 FED COM 7H	North Reference:	Grid
Well:	7H	Survey Calculation Method:	Minimum Curvature
Wellbore Design:	Lateral Plan #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)	
9,500.00	91.00	91.64	6,432.65	-92.66	3,241.74	3,243.06	0.00	0.00	0.00	
9,600.00	91.00	91.64	6,430.90	-95.51	3,341.68	3,343.05	0.00	0.00	0.00	
9,700.00	91.00	91.64	6,429.16	-98.37	3,441.63	3,443.03	0.00	0.00	0.00	
9,800.00	91.00	91.64	6,427.41	-101.23	3,541.57	3,543.02	0.00	0.00	0.00	
9,900.00	91.00	91.64	6,425.67	-104.08	3,641.51	3,643.00	0.00	0.00	0.00	
10,000.00	91.00	91.64	6,423.92	-106.94	3,741.46	3,742.99	0.00	0.00	0.00	
10,100.00	91.00	91.64	6,422.18	-109.80	3,841.40	3,842.97	0.00	0.00	0.00	
10,200.00	91.00	91.64	6,420.43	-112.65	3,941.35	3,942.96	0.00	0.00	0.00	
10,300.00	91.00	91.64	6,418.69	-115.51	4,041.29	4,042.94	0.00	0.00	0.00	
10,400.00	91.00	91.64	6,416.94	-118.37	4,141.23	4,142.93	0.00	0.00	0.00	
10,500.00	91.00	91.64	6,415.19	-121.22	4,241.18	4,242.91	0.00	0.00	0.00	
10,600.00	91.00	91.64	6,413.45	-124.08	4,341.12	4,342.89	0.00	0.00	0.00	
10,700.00	91.00	91.64	6,411.70	-126.94	4,441.07	4,442.88	0.00	0.00	0.00	
10,800.00	91.00	91.64	6,409.96	-129.79	4,541.01	4,542.86	0.00	0.00	0.00	
10,900.00	91.00	91.64	6,408.21	-132.65	4,640.95	4,642.85	0.00	0.00	0.00	
11,000.00	91.00	91.64	6,406.47	-135.51	4,740.90	4,742.83	0.00	0.00	0.00	
11,041.73	91.00	91.64	6,405.74	-136.70	4,782.60	4,784.55	0.00	0.00	0.00	
TD at 11041.73										

Design Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Shiner 7H Surface		0.00	0.00	0.00	0.00	0.00	676,764.70	654,355.00	32° 51' 34.20 N	103° 49' 50.39 W
- plan hits target center										
- Point										
Shiner 7H PBHL		0.00	0.00	6,405.74	-136.70	4,782.60	676,628.00	659,137.60	32° 51' 32.62 N	103° 48' 54.33 W
- plan hits target center										
- Point										

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
5,959.21	5,959.21	0.00	0.00	Start Build 11.00	
6,786.49	6,480.00	-15.14	529.74	Start 4255.24 hold at 6786.49 MD	
11,041.73	6,405.74	-136.70	4,782.60	TD at 11041.73	

APD Extension
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG Operating, LLC
LEASE NO.:	NMLC31844
WELL NAME & NO.:	Shiner Bock 1 Federal Com #7H
SURFACE HOLE FOOTAGE:	1160' FSL & 170' FWL
BOTTOM HOLE FOOTAGE:	990' FSL & 330' FEL
LOCATION:	Section 1, T. 17 S., R 31 E., NMPM
COUNTY:	Eddy County, New Mexico

The Pecos District Conditions of Approval (COA) that were approved with the APD on 01/27/2014 apply to this sundry notice to relocate the well location received on 04/29/2014. The following conditions amend and apply to the sundry notice as well.

Special Requirements

- Lesser Prairie-Chicken Timing Stipulations
- Ground-level Abandoned Well Marker

I. SPECIAL REQUIREMENT(S)

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period.

Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted.

Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

The following Conservation Measures are to be accomplished in addition to those described in the CCA and Pecos District Special Status Species Resource Management Plan Amendment (RMPA):

1. To the extent determined by the BLM representative at the Plan of Development stage, all infrastructures supporting the development of a well (including roads, power lines, and pipelines) will be constructed within the same corridor.
2. On enrolled parcels that contain inactive wells, roads and/or facilities that are not reclaimed to current standards, the Participating Cooperator shall remediate and reclaim their facilities within three years of executing this CP, unless the Cooperator can demonstrate they will put the facilities back to beneficial use for the enrolled parcel(s). If an extension is requested by the Cooperator, they shall submit a detailed plan (including dates) and receive BLM approval prior to the three year deadline. All remediation and reclamation shall be performed in accordance with BLM requirements and be approved in advance by the Authorized Officer.
3. Utilize alternative techniques to minimize new surface disturbance when required and as determined by the BLM representative at the Plan of Development stage.

4. Install fence markings along fences owned, controlled, or constructed by the Participating Cooperator that cross through occupied habitat within two miles of an active LPC lek.
5. Bury new powerlines that are within two (2) miles of LPC lek sites active at least once within the past five years (measured from the lek). The avoidance distance is subject to change based on new information received from peer reviewed science.
6. Bury new powerlines that are within one (1) mile of historic LPC lek sites where at least one LPC has been observed within the past three years (measured from the historic lek). The avoidance distance is subject to change based on new information received from peer reviewed science.
7. Management recommendations may be developed based on new information received from peer reviewed science to mitigate impacts from H₂S and/or the accumulation of sulfates in the soil related to production of gas containing H₂S on the LPC. Such management recommendations will be applied by the Participating Cooperator as Conservation Measures under this CI/CP in suitable and occupied SDL/LPC habitat where peer-reviewed science has shown that H₂S levels threaten the LPC.