

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

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.

HOBBS OCD

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

AUG 20 2012

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No NMNM120910 ✓
2. Name of Operator ✓ COG OPERATING LLC		6. If Indian, Allottee or Tribe Name
Contact: MAYTE REYES E-Mail: mreyes1@concho.com		7. If Unit or CA/Agreement, Name and/or No
3a. Address 2208 WEST MAIN STREET ARTESIA, NM 88210	3b. Phone No (include area code) Ph: 575-748-6945	8. Well Name and No. BUFFLEHEAD FRAC POND 1 ✓
4. Location of Well (Footage, Sec./T., R., M., or Survey Description) Sec 10 T26S R32E ✓		9. API Well No. 30-025-46423 ✓
		10. Field and Pool, or Exploratory JENNINGS; DELAWARE ✓
		11. County or Parish, and State LEA 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
	<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 recomplete 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 approval to construct a 340' x 340' fresh water frac pond in Sec 10-T26S-R32E.

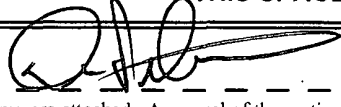
The pit will serve the Bufflehead 10 Federal #1H, Bufflehead 10 Federal #2H, Pintail 3 Federal #1H and Pintail 3 Federal #2H wells.

14 I hereby certify that the foregoing is true and correct

**Electronic Submission #131289 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Hobbs**

Name (Printed/Typed) MAYTE REYES	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 02/21/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

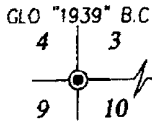
Approved By 	Title AM	Date 8/16/12
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Office CARLSBAD 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

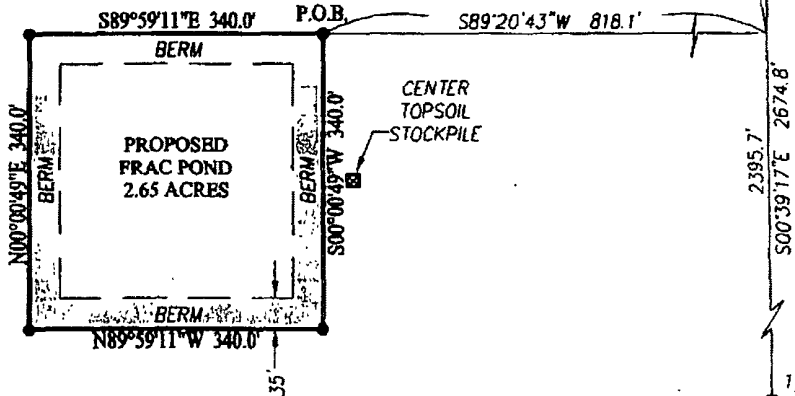
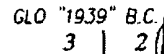
**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

AUG 21 2012

SECTION 10, TOWNSHIP 26 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY NEW MEXICO



N89°31'12"E 5327.5'



279.1'

2395.7'

500°39'17"E 2674.8'

USA

LEGEND

- DENOTES FOUND CORNER AS NOTED
- DENOTES SET SPIKE NAIL

NOTE

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No 3239, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THE SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

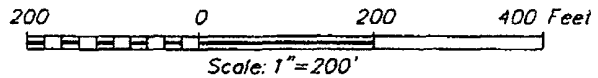
RONALD J. EIDSON
DATE: 02/13/2012

PROVIDING SURVEYING SERVICES
PROFESSIONAL SURVEYOR No 3239
JOHN W. SCOTT SURVEYING COMPANY
412 N DAL PASO
HOBBS, N.M. 89240
(575) 393-3117 www.jwsc.biz

DESCRIPTION

A PROPOSED FRAC POND SITUATED IN NE/4 NE/4 OF SECTION 10, TOWNSHIP 26 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF THE PROPOSED FRAC POND WHICH LIES S00°39'17"E 279.1 FEET AND S89°20'43"W 818.1 FEET FROM THE NORTHEAST CORNER, THEN S00°00'49"W 340.0 FEET; THEN N89°59'11"W 340.0 FEET; THEN N00°00'49"E 340.0 FEET; THEN S89°59'11"E 340.0 FEET TO THE POINT OF BEGINNING AND CONTAINING 2.65 ACRES MORE OR LESS



COG OPERATING, LLC

**SURVEY FOR BUFFLEHEAD FRAC POND
SITUATED IN THE NE/4 OF SECTION 10,
TOWNSHIP 26 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, NEW MEXICO**

Survey Date: 2/2/12	CAD Date: 2/10/12	Drawn By: ACR
W.O No.: 12110130	Rev:	Rel W.O:

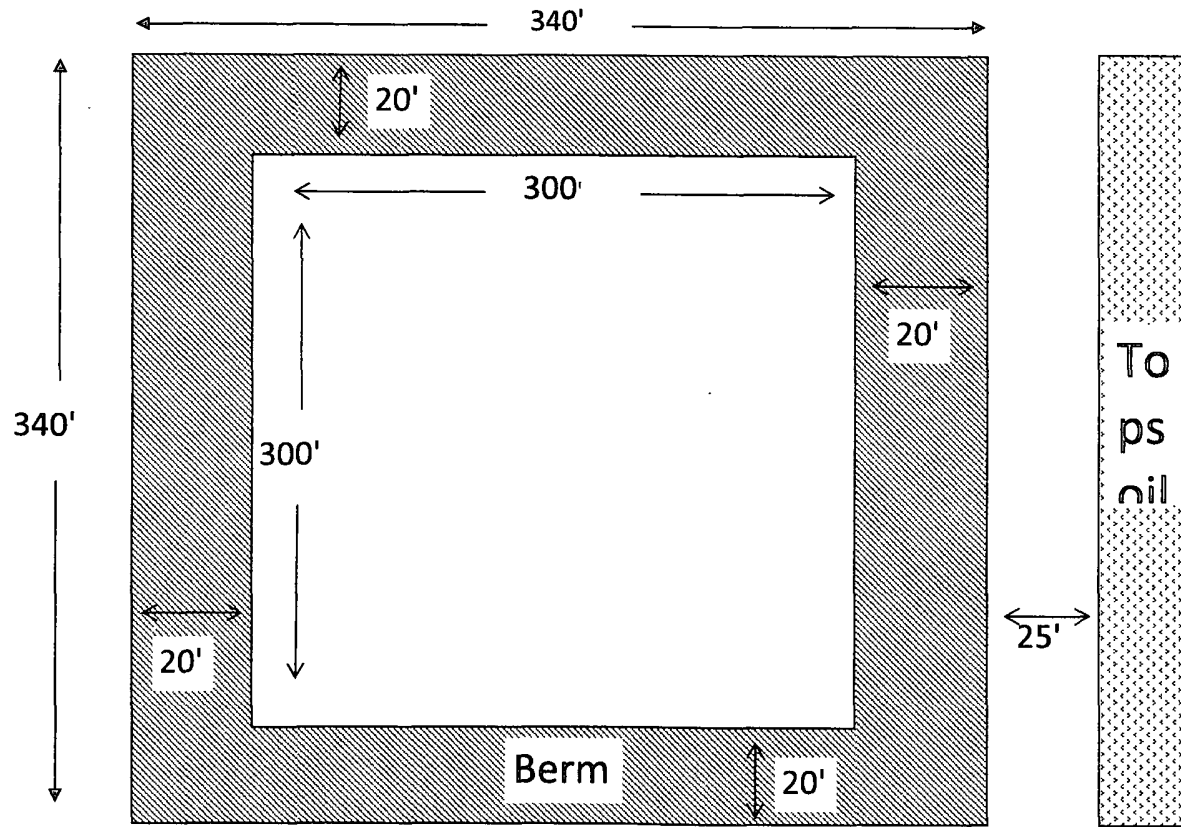
Sheet 1 of 1



COG Operating LLC
2208 West Main
Artesia, NM 88210

Created by Neevia Document Converter trial version <http://www.neevia.com>

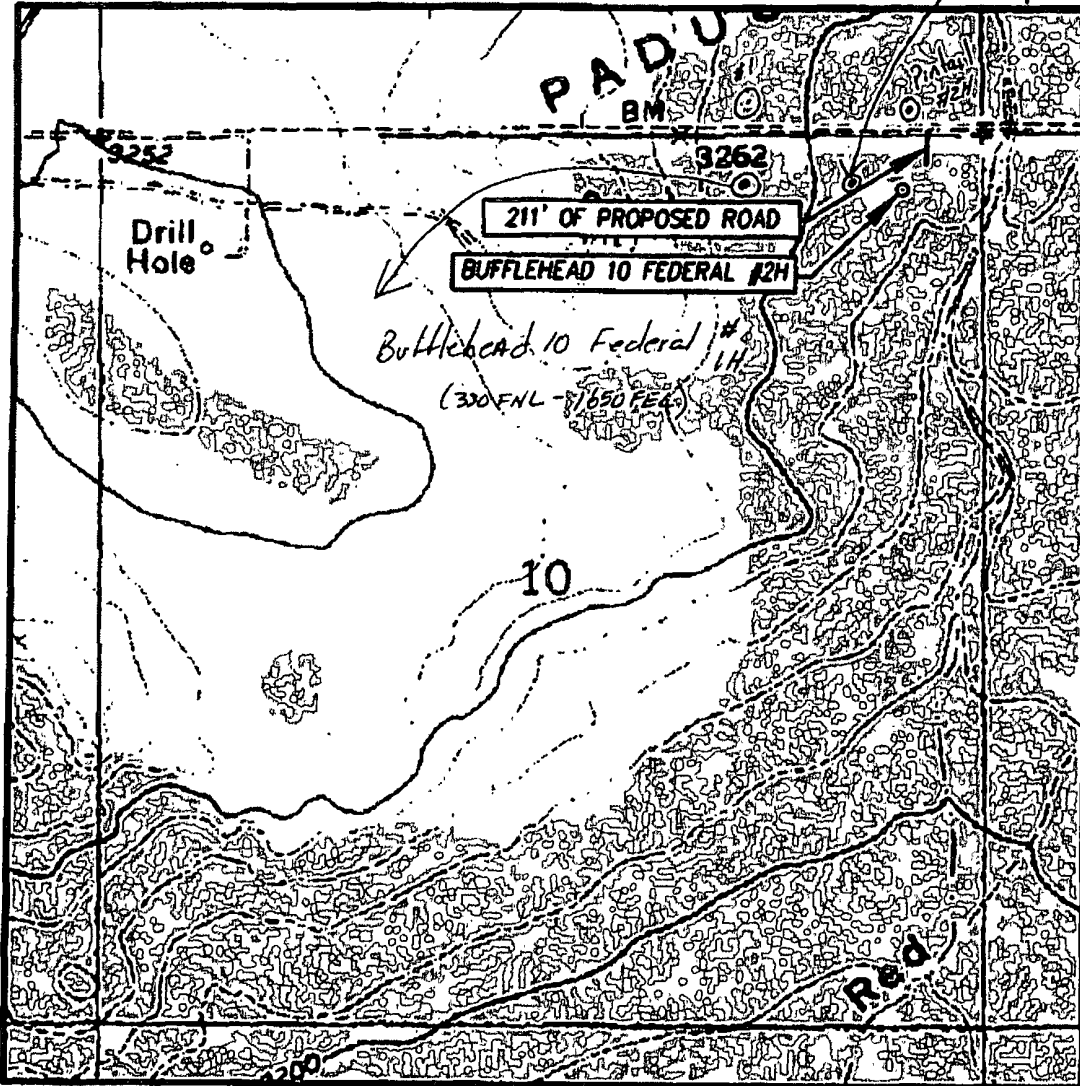
Bufflehead Frac Pond



Pond depth: 12-14 feet

LOCATION VERIFICATION MAP

FRAC Pond
818 FEL
279 FNL } NE corner
340x340



SCALE: 1" = 1000'

SEC. 10 TWP. 26-S RGE. 32-E

SURVEY _____ N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 330' FNL & 480' FEL

ELEVATION 3243'


OPERATOR COG PRODUCTION, LLC.

LEASE BUFFLEHEAD 10 FEDERAL

U.S.G.S. TOPOGRAPHIC MAP
PADUCA BREAKS WEST, N.M.

CONTOUR INTERVAL:
PADUCA BREAKS WEST, N.M.-10'

*This well will also service 2
Pintail wells in section 3*



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(575) 393-3117

BLM LEASE NUMBER: NM-120910

COMPANY NAME: COG Operating, LLC

ASSOCIATED WELL NO. & NAME:

Bufflehead 10 Federal 1H, Bufflehead 10 Federal 2H, Pintail 3 Federal 1H,
Pintail 3 Federal 2H

FRAC POND CONDITIONS OF APPROVAL

A copy of the Sundry Notice and attachments, including stipulations, survey plat and diagram, will be on location during construction. BLM personnel may request to see a copy of your permit during construction to ensure compliance with all conditions of approval.

Holder agrees to comply with the following conditions of approval to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this permit.
2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated.
3. Required Standard Conditions of Approval:
 - Contact the Supervisory Environmental Protection Specialist, Jim Amos, at 575-234-5909 at least 24 hours prior to starting construction.
 - The frac pond will only be authorized to contain freshwater and testing of water quality is required. Additives are not allowed without consent of the authorized officer.
 - If at any time the water in the frac pond becomes polluted with salts or other contaminants, use of the frac pond will cease and desist, and all liquids will be removed from the frac pond and disposed of properly.
 - Confine all construction and maintenance activity to the authorized area.
 - Temporary pipelines flowing from the frac pond to the target well will be laid along existing roadways unless an exception has been granted by the authorized officer.
 - Mineral materials extracted during construction of the frac pond will be stored on-location and/or used for constructing the frac pond.
 - The frac pond will be lined.

- The operator shall stockpile topsoil approximately 25 feet outside the bermed perimeter of the pond in a low profile manner, reasonably protected from wind and water erosion
- Topsoil shall not be used for constructing the frac pond. The topsoil will be used for final reclamation purposes only.
- The frac pond shall be fenced on all sides to prevent livestock and wildlife from entering the pond. The fence must be installed at the base of the berm.
- Install earthen erosion-control structures as are suitable for the specific terrain and soil conditions.
- The plastic lining will be removed prior to final abandonment
- Reclamation efforts will commence immediately after the frac pond is no longer needed for the purpose of completing wells.
- Within 3 months of completion of frac operations on associated wells, all earthwork and final reclamation must be completed. This includes reclaiming and/or removal of:
 - Any roads approved for use with the pond
 - Surface water lines
 - Tanks, pumps, fencing etc.
- Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Requirements for Operations and Final Reclamation:

4. If, during any phase of the construction, operation, maintenance, or termination of the frac pond, any pollutant should be released from the contaminated frac pond, the control and total removal, disposal, and cleaning up of such pollutant, wherever found, shall be the responsibility of holder, regardless of fault.

5. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

6. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf shall be immediately

reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

7. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

8. After all disturbed areas have been satisfactorily contoured and prepared for seeding the location needs to be revegetated with the seed mixture provided. Seeding may need to be repeated until revegetation is successful. Operators shall contact Jim Amos, Supervisor, Environmental Protection – (575)234-5909, **prior** to beginning surface reclamation operations.

9. Seeding is required: Use the following seed mix.

- | | |
|---|--|
| <input type="checkbox"/> seed mixture 1 | <input type="checkbox"/> seed mixture 3 |
| <input type="checkbox"/> seed mixture 2 | <input type="checkbox"/> seed mixture 4 |
| <input checked="" type="checkbox"/> LPC mixture | <input type="checkbox"/> Aplomado Falcon mix |

10. The topsoil to be stripped is approximately 6 inches in depth.

11. Upon failure of holder to control, dispose of, or clean up such discharge, or to repair all damages resulting there-from, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

COMPANY: COG Operating, LLC

ASSOCIATED WELL:

Bufflehead 10 Federal 1H, Bufflehead 10 Federal 2H, Pintail 3 Federal 1H,
Pintail 3 Federal 2H

Temporary Freshwater Pipelines (Fracturing Operations) CONDITIONS OF APPROVAL

Maintain a copy of your temporary permit and your approved route diagram on location. BLM personnel may request to see a copy of your permit during construction to ensure compliance with all conditions of approval.

Holder agrees to comply with the following conditions of approval to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this permit.

2. Standard Conditions of Approval:

- Temporary pipelines must be removed within 30-45 days from this route unless granted in writing by the authorized officer.
- Temporary pipelines flowing from the frac pond to the target well(s) will be laid along existing roadways unless an exception has been granted by the authorized officer.
- Pipe will be hand-carried and hand-laid along any cross country portion of the approved route.
- Areas impacted (disturbed greater than vegetation compaction) by your project may require full reclamation.
- Pipelines will be empty before disassembly. Flow water back to the pond whenever possible.
- Do not restrict traffic on existing roads. Place ramps where needed.
- Pipe will be placed not more than 2 feet off the edge of existing lease roads, 2-track roads, or buried pipeline corridors.
- All pumps will be placed on existing disturbance (pads, roads, etc.).

3. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer.

BLM SERIAL #: NM-120910
COMPANY REFERENCE: COG Operating, LLC
WELL # & NAME:
Bufflehead 10 Federal 1H, Bufflehead 10 Federal 2H, Pintail 3 Federal 1H,
Pintail 3 Federal 2H

Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed