

ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



COG Operating LLC  
 BC Federal #20

**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication  
 NSL  NSP  SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement  
 DHC  CTB  PLC  PC  OLS  OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
 WFX  PMX  SWD  IPI  EOR  PPR
- [D] Other: Specify \_\_\_\_\_

- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or  Does Not Apply
- [A]  Working, Royalty or Overriding Royalty Interest Owners
- [B]  Offset Operators, Leaseholders or Surface Owner
- [C]  Application is One Which Requires Published Legal Notice
- [D]  Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E]  For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F]  Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

**Note: Statement must be completed by an individual with managerial and/or supervisory capacity.**

PHYLLIS A. EDWARDS \_\_\_\_\_ REGULARY ANALYST \_\_\_\_\_ 4-1-08  
 Print or Type Name Signature Title Date

pedwards@conchoresources.com  
 e-mail Address

RECEIVED  
 2008 APR 3 PM 2 01

Submit 3 Copies to Appropriate District Office  
 District I  
 1625 N. French Dr., Hobbs, NM 88240  
 District II  
 1301 W. Grand Ave., Artesia, NM 88210  
 District III  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV  
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
 Energy, Minerals and Natural Resources

Form C-103  
 May 27, 2004

OIL CONSERVATION DIVISION  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

WELL API NO. <b>30-025-</b>
5. Indicate Type of Lease <b>FEDERAL</b> STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name <b>B C FEDERAL</b>
8. Well Number <b>20</b>
9. OGRID Number <b>229137</b>
10. Pool name or Wildcat <b>MALJAMAR; YESO, WEST 44500</b>

SUNDRY NOTICES AND REPORTS ON WELLS  
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well  Gas Well  Other

2. Name of Operator  
**COG Operating LLC**

3. Address of Operator  
**550 W. Texas Ave., Suite 1300 Midland, TX 79701**

4. Well Location  
 Unit Letter **C** : **990'** feet from the **North** line and **2560'** feet from the **West** line  
 Section **19** Township **17S** Range **32E** NMPM County **LEA**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
**3960' GR**

Pit or Below-grade Tank Application  or Closure

Pit type **DRILLING** Depth to Groundwater **110'** Distance from nearest fresh water well **1000'** Distance from nearest surface water **1000'**

Pit Liner Thickness: **12 mil** Below-Grade Tank: Volume \_\_\_\_\_ bbls; Construction Material \_\_\_\_\_

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: <b>Move location</b> <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

The present location for this well is:  
 990 FNL & 2560 FWL, Section 19, T17S, R32E

The Bureau of Land Management requested that the location be moved to:  
 915 FNL & 2560 FWL, Section 19, T17S, R32E

Attached is the plat and flowline map showing the new location of:  
 915 FNL & 2560 FWL, Section 19, T17S, R32E

Please amend NSL 5733 (attached) to reflect this location change.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit  or an (attached) alternative OCD-approved plan .

SIGNATURE Phyllis Edwards TITLE Regulatory Analyst DATE 4-2-08

Type or print name **Phyllis Edwards** E-mail address: **pedwards@conchoresources.com** Telephone No. **432-685-4340**  
**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of Approval (if any):

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.  
NMLC029405A

6. If Indian, Allottee or Tribe Name

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

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. B C FEDERAL 20
2. Name of Operator COG OPERATING LLC		9. API Well No.
3a. Address 550 W. TEXAS SUITE 1300 MIDLAND, TX 79701		10. Field and Pool, or Exploratory MALJAMAR;YESO, WEST 44500
3b. Phone No. (include area code) Ph: 432-685-4340 Fx: 432-685-4399		
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  Sec 19 T17S R32E NENW 915FNL 2560FWL 32.82479 N Lat, 103.80565 W Lon		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.)

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915 FNL & 2560 FWL Section 19, T17S, R32E.

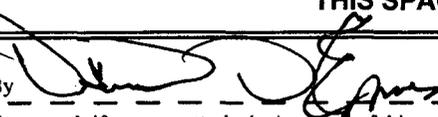
*OK c.l. 03/08/08*

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #58533 verified by the BLM Well Information System  
For COG OPERATING LLC, sent to the Hobbs**

Name (Printed/Typed) PHYLLIS A. EDWARDS	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 02/08/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By 	Title	Date <b>3-26-08</b>
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

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.

State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT I

1025 N. FRENCH DR., BOBBS, NM 86240

DISTRICT II

1301 W. GRAND AVENUE, ARTERIA, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Asteo, NM 87410

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number	Pool Code 44500	Pool Name MALJAMAR; YESO, WEST
Property Code 302456	Property Name BC FEDERAL	Well Number 20
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3960'

Surface Location

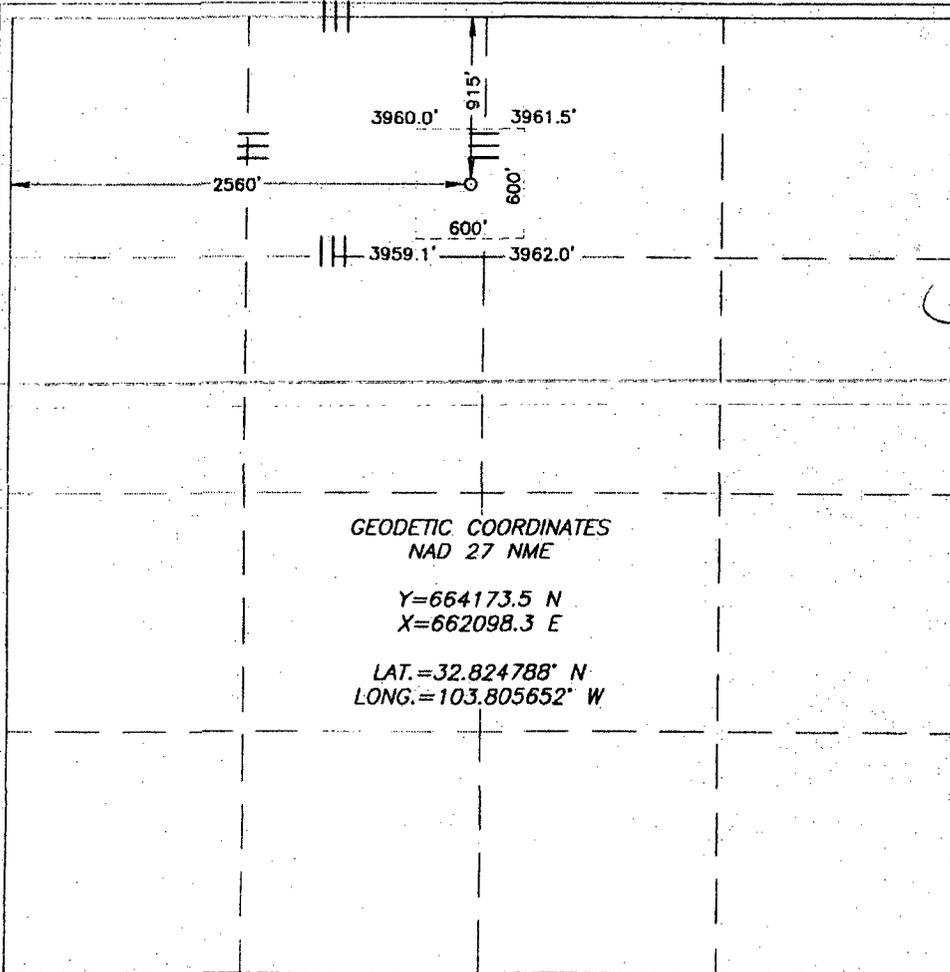
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	19	17-S	32-E		915	NORTH	2560	WEST	LEA

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

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40			

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



GEODETIC COORDINATES  
NAD 27 NME

Y=664173.5 N  
X=662098.3 E

LAT.=32.824788° N  
LONG.=103.805652° W

OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: Phyllis A. Edwards Date: 2/7/08

Printed Name: Phyllis A. Edwards

Regulatory Analyst

SURVEYOR CERTIFICATION

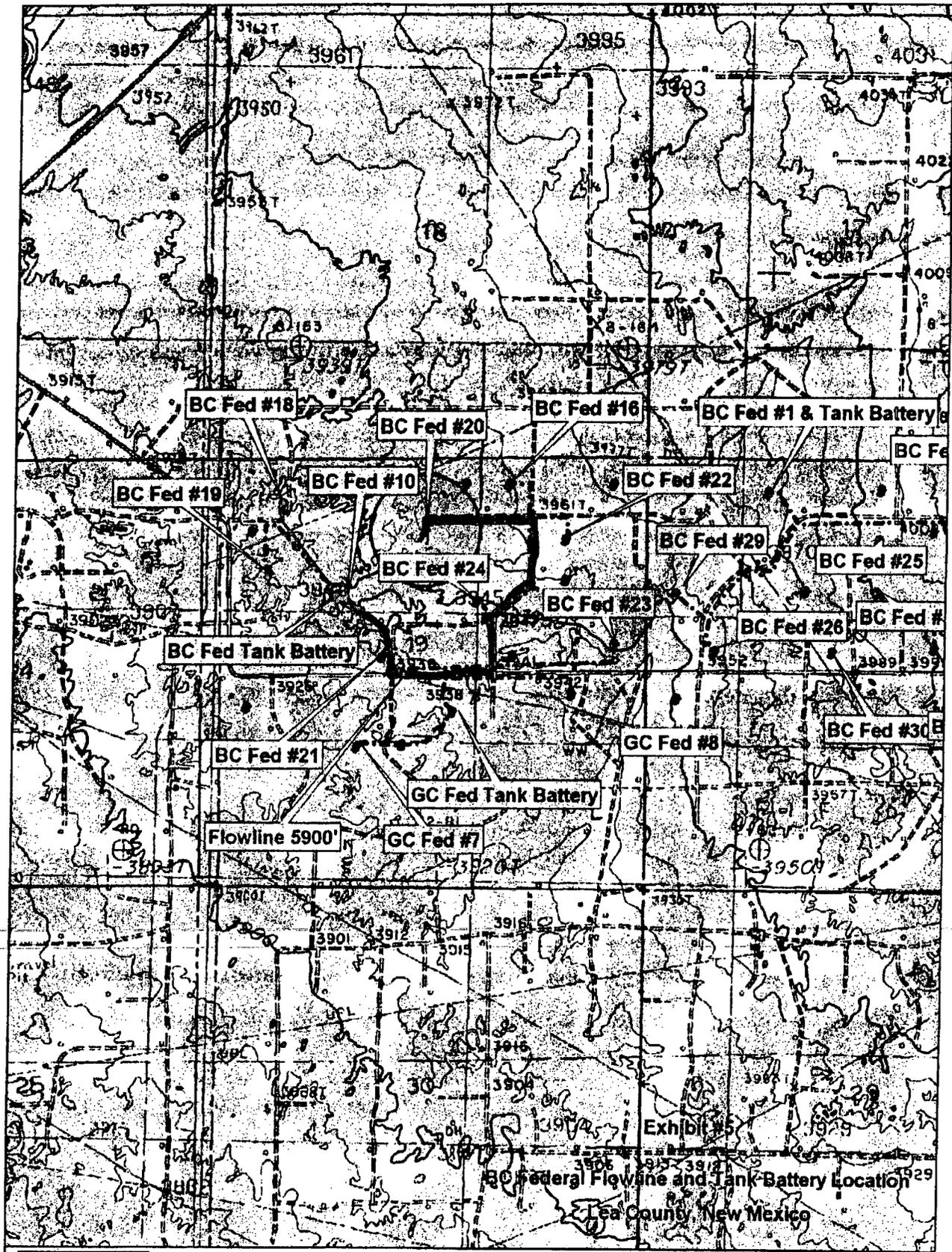
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Surveyed: JANUARY 30, 2008 AR/DSS

Signature & Seal of Professional Surveyor 3239

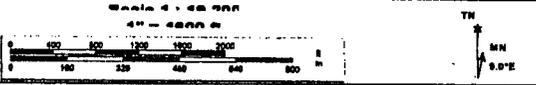
Professional Surveyor Seal: RONALD J. EIDSON, 3239, 2/5/08, 08-11-0167

Certificate No. GARY G. EIDSON 12641  
RONALD J. EIDSON 3239



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 www.delorme.com





# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**  
Governor  
**Joanna Prukop**  
Cabinet Secretary

**Mark E. Fesmire, P.E.**  
Director  
Oil Conservation Division

December 06, 2007

Phyllis Edwards  
Regulatory Analyst  
COG Operating, LLC  
550 W. Texas Avenue, Suite 1300  
Midland, Texas 79701

RE: **B C Federal Well No. 20**  
**990 feet FNL & 2560 feet FWL (Unit E) (Unorthodox)**  
**NE/4NW/4 of Section 19, T-17 -S, R-32-E,**  
**NMPM, Lea County, New Mexico**

**Administrative Order NSL-5733**

Dear Ms Edwards:

Reference is made to the following:

- (a) your application (**administrative application reference No. pKVR0731328466**) submitted to the New Mexico Oil Conservation Division (the Division) in Santa Fe, New Mexico on November 6, 2007; and
- (b) the Division's records pertinent to COG's request.

COG Operating, LLC, requests to drill its B C Federal Well No. 20 at an unorthodox Maljamar; Yeso oil well location as referenced above in Section 19, Township 17 South, Range 32 East, N.M.P.M., in Lea County, New Mexico.

The NE/4NW/4 of Section 19 will be dedicated to this well to form a standard 40-acre oil spacing and proration unit. COG Operating, LLC, intends to test the Maljamar; Yeso Oil Pool. This pool is governed by the Division's Statewide Rules and Regulations which provide for wells on 40-acre spacing units to be located no closer than 330 feet to a quarter-quarter section line.

The location of the well is due to the presence of sand Dunes in the area and COG does not wish to drill a directional well to cut drilling costs.

Your application has been duly filed under the provisions of Division Rules 104. F. It is our understanding that the offsetting acreage has interest ownership identical in all respects, therefore no notice of this application is required.

Pursuant to the authority granted under the provisions of Division Rules 104. F(2), the above-described unorthodox Maljamar; Yeso oil pool location is hereby approved.

Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark E. Fesmire". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Mark E. Fesmire, P.E.  
Director

MEF/re

cc: New Mexico Oil Conservation Division – Hobbs  
Bureau of Land Management (BLM) - Carlsbad

Office  
 District I  
 1625 N. French Dr., Hobbs, NM 88240  
 District II  
 1301 W. Grand Ave., Artesia, NM 88210  
 District III  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV  
 1220 S. St. Francis Dr., Santa Fe, NM  
 87505

STATE OF NEW MEXICO  
 Energy, Minerals and Natural Resources

Form C-103  
 May 27, 2004

OIL CONSERVATION DIVISION  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		WELL API NO. <b>30-025-</b>
2. Name of Operator <b>COG Operating LLC</b>		5. Indicate Type of Lease <b>FEDERAL</b> STATE <input type="checkbox"/> FEE <input type="checkbox"/>
3. Address of Operator <b>550 W. Texas Ave., Suite 1300 Midland, TX 79701</b>		6. State Oil & Gas Lease No.
4. Well Location Unit Letter <b>C</b> : <b>990'</b> feet from the <b>North</b> line and <b>2560'</b> feet from the <b>West</b> line Section <b>19</b> Township <b>17S</b> Range <b>32E</b> NMPM County <b>LEA</b>		7. Lease Name or Unit Agreement Name <b>B C FEDERAL</b>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <b>3960' GR</b>		8. Well Number <b>20</b>
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input checked="" type="checkbox"/>		9. OGRID Number <b>229137</b>
Pit type <b>DRILLING</b> Depth to Groundwater <b>110'</b> Distance from nearest fresh water well <b>1000'</b> Distance from nearest surface water <b>1000'</b> Pit Liner Thickness: <b>12 mil</b> Below-Grade Tank: Volume _____ bbls; Construction Material _____		10. Pool name or Wildcat <b>MALJAMAR; YESO, WEST 44500</b>

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/>		SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: <b>Move location</b> <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

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SIGNATURE Phyllis Edwards TITLE Regulatory Analyst DATE 4-2-08

Type or print name **Phyllis Edwards** E-mail address: **pedwards@conchoresources.com** Telephone No. **432-685-4340**  
**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of Approval (if any):

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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5. Lease Serial No.  
NMLC029405A

6. If Indian, Allottee or Tribe Name

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

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. B C FEDERAL 20
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3b. Phone No. (include area code) Ph: 432-685-4340 Fax: 432-685-4399		
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  Sec 19 T17S R32E NENW 915FNL 2560FWL 32.82479 N Lat, 103.80565 W Lon		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			
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<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
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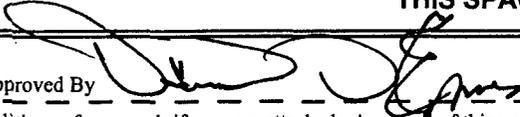
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*OK c.l. 03/08/08*

14. I hereby certify that the foregoing is true and correct.  
**Electronic Submission #58533 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Hobbs**

Name (Printed/Typed) PHYLLIS A. EDWARDS	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 02/08/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By 	Title	3-26-08 Date
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

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State of New Mexico

Energy, Minerals and Natural Resources Department

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DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Artesia, NM 87410

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

OIL CONSERVATION DIVISION

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Santa Fe, New Mexico 87505

Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number	Pool Code 44500	Pool Name MALJAMAR; YESO, WEST
Property Code 302456	Property Name BC FEDERAL	Well Number 20
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3960'

Surface Location

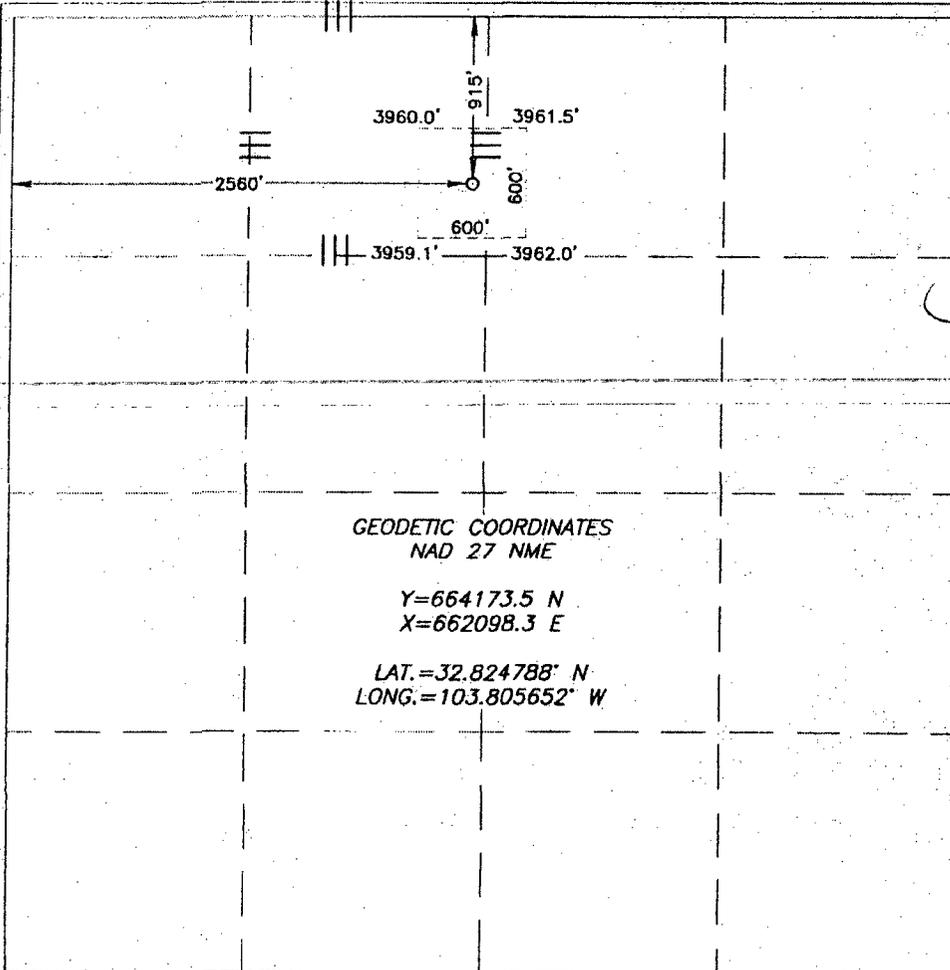
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	19	17-S	32-E		915	NORTH	2560	WEST	LEA

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

Dedicated Acres 40	Joint or Infill	Consolidation Code	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



GEODETIC COORDINATES  
NAD 27 NME

Y=664173.5 N  
X=662098.3 E

LAT.=32.824788' N  
LONG.=103.805652' W

OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Phyllis A. Edwards*  
Signature Date

Phyllis A. Edwards  
Printed Name

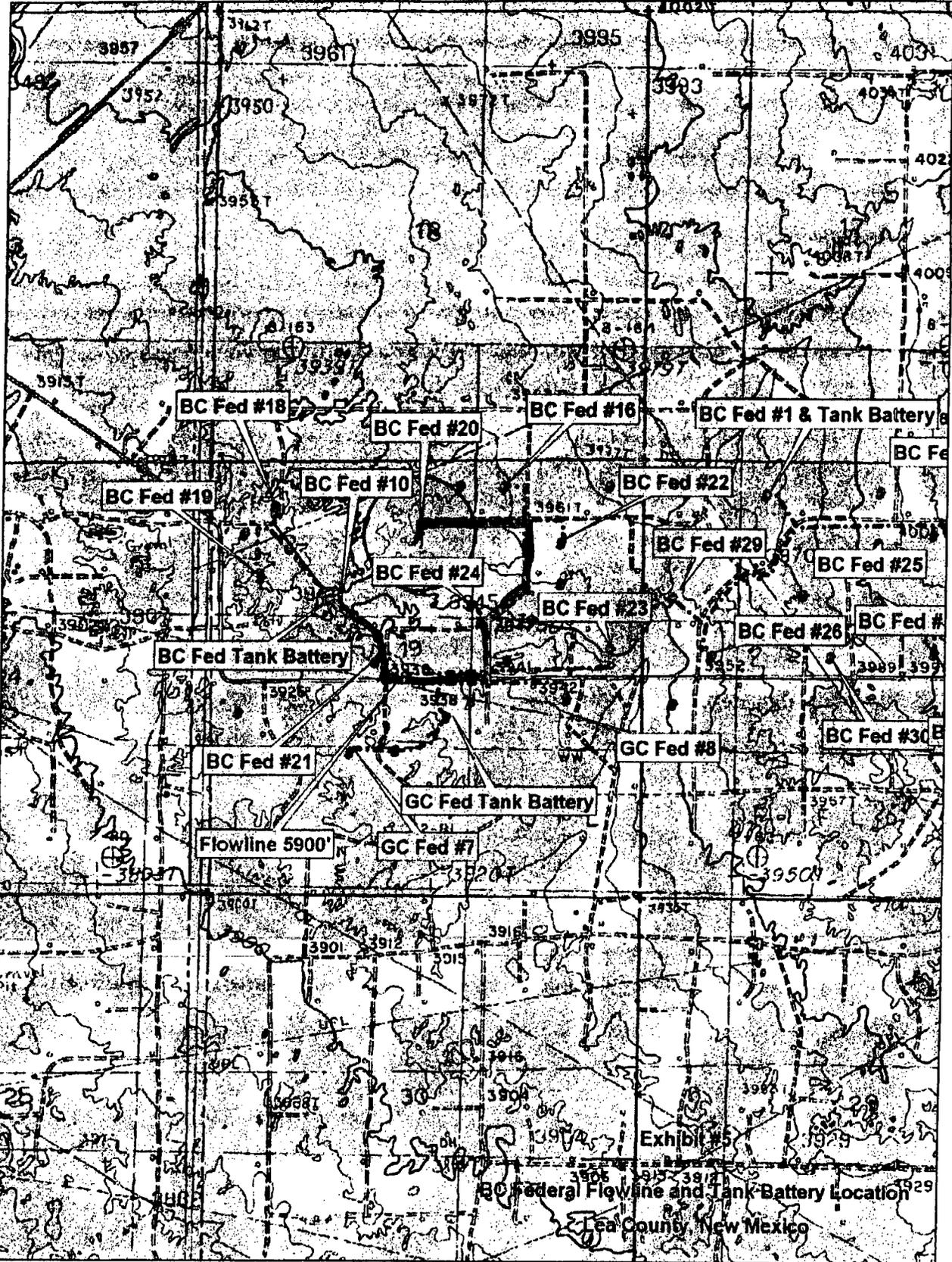
Regulatory Analyst

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.

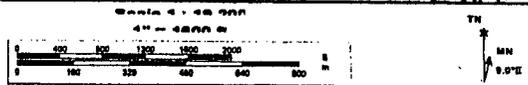
JANUARY 30 2008  
Date Surveyed  
NEW MEXICO  
Signature & Seal of Professional Surveyor  
3239  
08-11-0167

Certificate No. GARY G. RIDSON 12641  
RONALD J. RIDSON 3239



**DeLORME**

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www.delorme.com





# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**  
Governor  
**Joanna Prukop**  
Cabinet Secretary

**Mark E. Fesmire, P.E.**  
Director  
Oil Conservation Division

December 06, 2007

Phyllis Edwards  
Regulatory Analyst  
COG Operating, LLC  
550 W. Texas Avenue, Suite 1300  
Midland, Texas 79701

RE: **B C Federal Well No. 20**  
**990 feet FNL & 2560 feet FWL (Unit E) (Unorthodox)**  
**NE/4NW/4 of Section 19, T-17 -S, R-32-E,**  
**NMPM, Lea County, New Mexico**

**Administrative Order NSL-5733**

Dear Ms Edwards:

Reference is made to the following:

- (a) your application (**administrative application reference No. pKVR0731328466**) submitted to the New Mexico Oil Conservation Division (the Division) in Santa Fe, New Mexico on November 6, 2007; and
- (b) the Division's records pertinent to COG's request.

COG Operating, LLC, requests to drill its B.C Federal Well No. 20 at an unorthodox Maljamar; Yeso oil well location as referenced above in Section 19, Township 17 South, Range 32 East, N.M.P.M., in Lea County, New Mexico.

The NE/4NW/4 of Section 19 will be dedicated to this well to form a standard 40-acre oil spacing and proration unit. COG Operating, LLC, intends to test the Maljamar; Yeso Oil Pool. This pool is governed by the Division's Statewide Rules and Regulations which provide for wells on 40-acre spacing units to be located no closer than 330 feet to a quarter-quarter section line.

The location of the well is due to the presence of sand Dunes in the area and COG does not wish to drill a directional well to cut drilling costs.

Your application has been duly filed under the provisions of Division Rules 104. F. It is our understanding that the offsetting acreage has interest ownership identical in all respects, therefore no notice of this application is required.

Pursuant to the authority granted under the provisions of Division Rules 104. F(2), the above-described unorthodox Maljamar; Yeso oil pool location is hereby approved.

Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark E. Fesmire". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Mark E. Fesmire, P.E.  
Director

MEF/re

cc: New Mexico Oil Conservation Division – Hobbs  
Bureau of Land Management (BLM) - Carlsbad

Office  
 District I  
 1625 N. French Dr., Hobbs, NM 88240  
 District II  
 1301 W. Grand Ave., Artesia, NM 88210  
 District III  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV  
 1220 S. St. Francis Dr., Santa Fe, NM  
 87505

STATE OF NEW MEXICO  
 Energy, Minerals and Natural Resources

Form C-103  
 May 27, 2004

OIL CONSERVATION DIVISION  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		WELL API NO. <b>30-025-</b>
2. Name of Operator <b>COG Operating LLC</b>		5. Indicate Type of Lease <b>FEDERAL</b> STATE <input type="checkbox"/> FEE <input type="checkbox"/>
3. Address of Operator <b>550 W. Texas Ave., Suite 1300 Midland, TX 79701</b>		6. State Oil & Gas Lease No.
4. Well Location Unit Letter <b>C</b> : <b>990'</b> feet from the <b>North</b> line and <b>2560'</b> feet from the <b>West</b> line Section <b>19</b> Township <b>17S</b> Range <b>32E</b> NMPM County <b>LEA</b>		7. Lease Name or Unit Agreement Name <b>B C FEDERAL</b>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <b>3960' GR</b>		8. Well Number <b>20</b>
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input checked="" type="checkbox"/>		9. OGRID Number <b>229137</b>
Pit type <b>DRILLING</b> Depth to Groundwater <b>110'</b> Distance from nearest fresh water well <b>1000'</b> Distance from nearest surface water <b>1000'</b> Pit Liner Thickness: <b>12 mil</b> Below-Grade Tank: Volume _____ bbls; Construction Material _____		10. Pool name or Wildcat <b>MALJAMAR; YESO, WEST 44500</b>

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> OTHER: <b>Move location</b> <input checked="" type="checkbox"/>		SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/> OTHER: <input type="checkbox"/>	
---	--	--	--

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

The present location for this well is:  
 990 FNL & 2560 FWL, Section 19, T17S, R32E

The Bureau of Land Management requested that the location be moved to:  
 915 FNL & 2560 FWL, Section 19, T17S, R32E

Attached is the plat and flowline map showing the new location of:  
 915 FNL & 2560 FWL, Section 19, T17S, R32E

Please amend NSL 5733 (attached) to reflect this location change.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit  or an (attached) alternative OCD-approved plan .

SIGNATURE Phyllis Edwards TITLE Regulatory Analyst DATE 4-2-08

Type or print name **Phyllis Edwards** E-mail address: **pedwards@conchoresources.com** Telephone No. **432-685-4340**  
**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of Approval (if any):

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.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMLC029405A
2. Name of Operator COG OPERATING LLC Contact: PHYLLIS A. EDWARDS E-Mail: pedwards@conchoresources.com		6. If Indian, Allottee or Tribe Name
3a. Address 550 W. TEXAS SUITE 1300 MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-685-4340 Fx: 432-685-4399	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 19 T17S R32E NENW 915FNL 2560FWL 32.82479 N Lat, 103.80565 W Lon		8. Well Name and No. B C FEDERAL 20
		9. API Well No.
		10. Field and Pool, or Exploratory MALJAMAR;YESO, WEST 44500
		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.)

The present location for this well is:  
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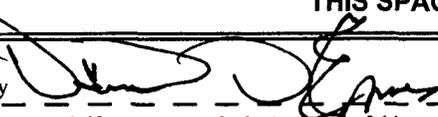
Attached is the plat and flowline map showing the new location of:  
915 FNL & 2560 FWL Section 19, T17S, R32E.

*OK c.l. 03/18/08*

14. I hereby certify that the foregoing is true and correct.  
Electronic Submission #58533 verified by the BLM Well Information System  
For COG OPERATING LLC, sent to the Hobbs

Name (Printed/Typed) PHYLLIS A. EDWARDS	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 02/08/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By 	Title	Date 3-26-08
---	-------	--------------

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

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 \*\***

State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT I  
1626 N. FRENCH DR., BOBBS, NM 86940

DISTRICT II  
1901 W. GRAND AVENUE, ARTERIA, NM 86210

DISTRICT III  
1000 Rio Brazos Rd., Artee, NM 87410

DISTRICT IV  
1290 S. ST. FRANCIS DR., SANTA FE, NM 87505

**OIL CONSERVATION DIVISION**  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

AMENDED REPORT

API Number	Pool Code 44500	Pool Name MALJAMAR; YESO, WEST
Property Code 302456	Property Name BC FEDERAL	Well Number 20
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3960'

Surface Location

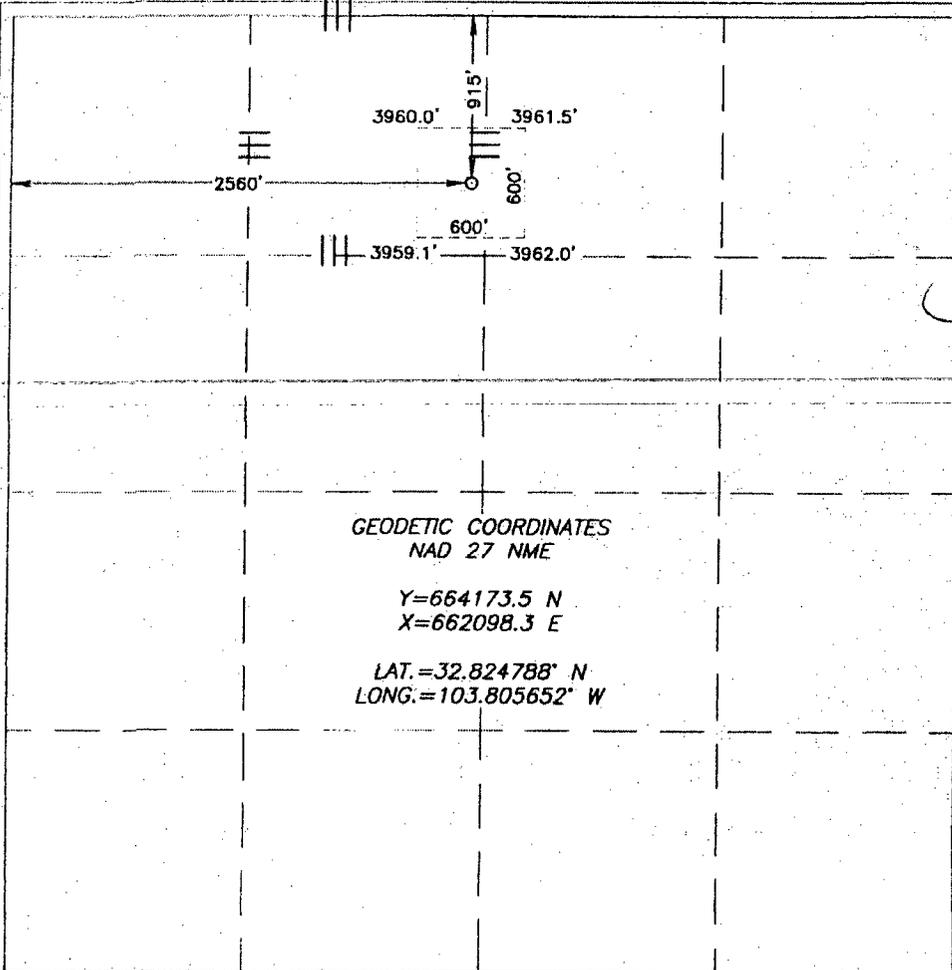
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	19	17-S	32-E		915	NORTH	2560	WEST	LEA

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

Dedicated Acres 40	Joint or Infill	Consolidation Code	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



**OPERATOR CERTIFICATION**

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Phyllis A. Edwards*  
Signature Date

Phyllis A. Edwards  
Printed Name

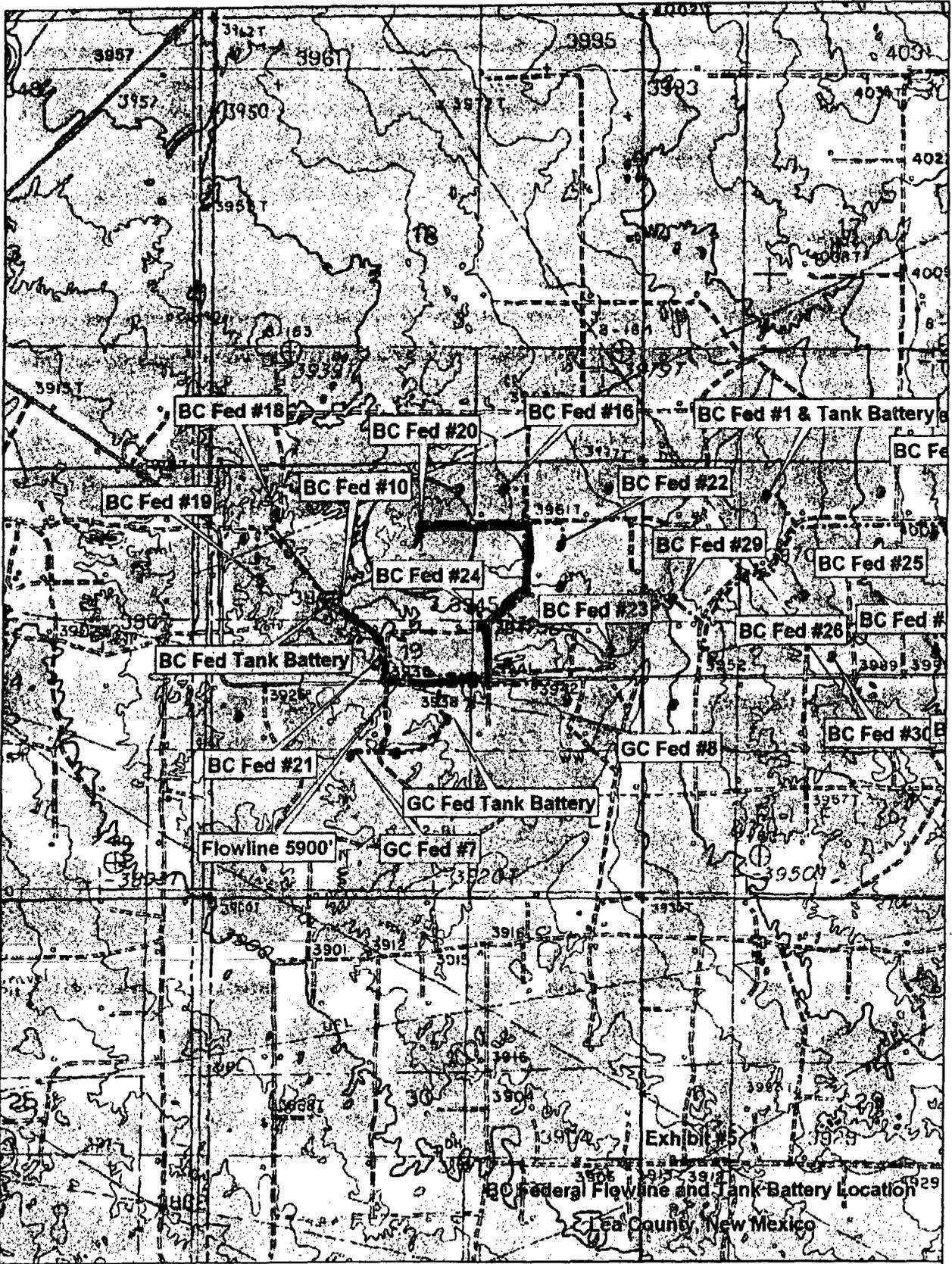
Regulatory Analyst

**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.

JANUARY 30 2008  
Date Surveyed  
NEW MEXICO  
Signature & Seal of Professional Surveyor  
3239  
08-11-0167

Certificate No. GARY G. EIDSON 12641  
RONALD J. EIDSON 3239



**DELORME**

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www.delorme.com



Exhibit #5  
BC Federal Flowline and Tank Battery Location  
Lea County, New Mexico



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**  
Governor  
**Joanna Prukop**  
Cabinet Secretary

**Mark E. Fesmire, P.E.**  
Director  
Oil Conservation Division

December 06, 2007

Phyllis Edwards  
Regulatory Analyst  
COG Operating, LLC  
550 W. Texas Avenue, Suite 1300  
Midland, Texas 79701

RE: **B C Federal Well No. 20**  
**990 feet FNL & 2560 feet FWL (Unit E) (Unorthodox)**  
**NE/4NW/4 of Section 19, T-17 -S, R-32-E,**  
**NMPM, Lea County, New Mexico**

**Administrative Order NSL-5733**

Dear Ms Edwards:

Reference is made to the following:

- (a) your application (**administrative application reference No. pKVR0731328466**) submitted to the New Mexico Oil Conservation Division (the Division) in Santa Fe, New Mexico on November 6, 2007; and
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The location of the well is due to the presence of sand Dunes in the area and COG does not wish to drill a directional well to cut drilling costs.

Your application has been duly filed under the provisions of Division Rules 104. F. It is our understanding that the offsetting acreage has interest ownership identical in all respects, therefore no notice of this application is required.

Pursuant to the authority granted under the provisions of Division Rules 104. F(2), the above-described unorthodox Maljamar; Yeso oil pool location is hereby approved.

Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

Sincerely,

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Mark E. Fesmire, P.E.  
Director

MEF/re

cc: New Mexico Oil Conservation Division – Hobbs  
Bureau of Land Management (BLM) - Carlsbad

Office  
 District I  
 1625 N. French Dr., Hobbs, NM 88240  
 District II  
 1301 W. Grand Ave., Artesia, NM 88210  
 District III  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV  
 1220 S. St. Francis Dr., Santa Fe, NM  
 87505

STATE OF NEW MEXICO  
 Energy, Minerals and Natural Resources

Form C-103  
 May 27, 2004

OIL CONSERVATION DIVISION  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

WELL API NO. <b>30-025-</b>	
5. Indicate Type of Lease	<b>FEDERAL</b>
STATE <input type="checkbox"/>	FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name	
<b>B C FEDERAL</b>	
8. Well Number	<b>20</b>
9. OGRID Number	
<b>229137</b>	
10. Pool name or Wildcat	
<b>MALJAMAR; YESO, WEST 44500</b>	

**SUNDRY NOTICES AND REPORTS ON WELLS**  
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well  Gas Well  Other

2. Name of Operator  
**COG Operating LLC**

3. Address of Operator  
**550 W. Texas Ave., Suite 1300 Midland, TX 79701**

4. Well Location  
 Unit Letter **C** : **990'** feet from the **North** line and **2560'** feet from the **West** line  
 Section **19** Township **17S** Range **32E** NMPM County **LEA**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
**3960' GR**

Pit or Below-grade Tank Application  or Closure

Pit type **DRILLING** Depth to Groundwater **110'** Distance from nearest fresh water well **1000'** Distance from nearest surface water **1000'**

Pit Liner Thickness: **12 mil** Below-Grade Tank: Volume \_\_\_\_\_ bbls; Construction Material \_\_\_\_\_

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: <b>Move location</b> <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

The present location for this well is:  
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Please amend NSL 5733 (attached) to reflect this location change.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit  or an (attached) alternative OCD-approved plan .

SIGNATURE Phyllis Edwards TITLE Regulatory Analyst DATE 4-2-08

Type or print name **Phyllis Edwards** E-mail address: **pedwards@conchoresources.com** Telephone No. **432-685-4340**

**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of Approval (if any): \_\_\_\_\_

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.  
NMLC029405A

6. If Indian, Allottee or Tribe Name

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

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. B C FEDERAL 20
2. Name of Operator COG OPERATING LLC Contact: PHYLLIS A. EDWARDS E-Mail: pedwards@conchoresources.com		9. API Well No.
3a. Address 550 W. TEXAS SUITE 1300 MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-685-4340 Fx: 432-685-4399	10. Field and Pool, or Exploratory MALJAMAR;YESO, WEST 44500
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 19 T17S R32E NENW 915FNL 2560FWL 32.82479 N Lat, 103.80565 W Lon		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	

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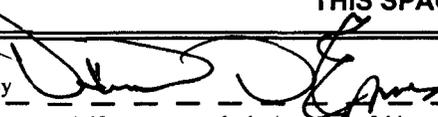
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*OK c.l. 03/08/08*

14. I hereby certify that the foregoing is true and correct.  
Electronic Submission #58533 verified by the BLM Well Information System  
For COG OPERATING LLC, sent to the Hobbs

Name (Printed/Typed) PHYLLIS A. EDWARDS	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 02/08/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By 	Title	Date 3-26-09
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

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State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT I  
1625 N. FRENCH DR., BOBBS, NM 86340

DISTRICT II  
1301 W. GRAND AVENUE, ARTESIA, NM 86210

DISTRICT III  
1000 Rio Brazos Rd., Astec, NM 87410

DISTRICT IV  
1890 S. ST. FRANCIS DR., SANTA FE, NM 87505

**OIL CONSERVATION DIVISION**  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number	Pool Code 44500	Pool Name MALJAMAR; YESO, WEST
Property Code 302456	Property Name BC FEDERAL	Well Number 20
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3960'

Surface Location

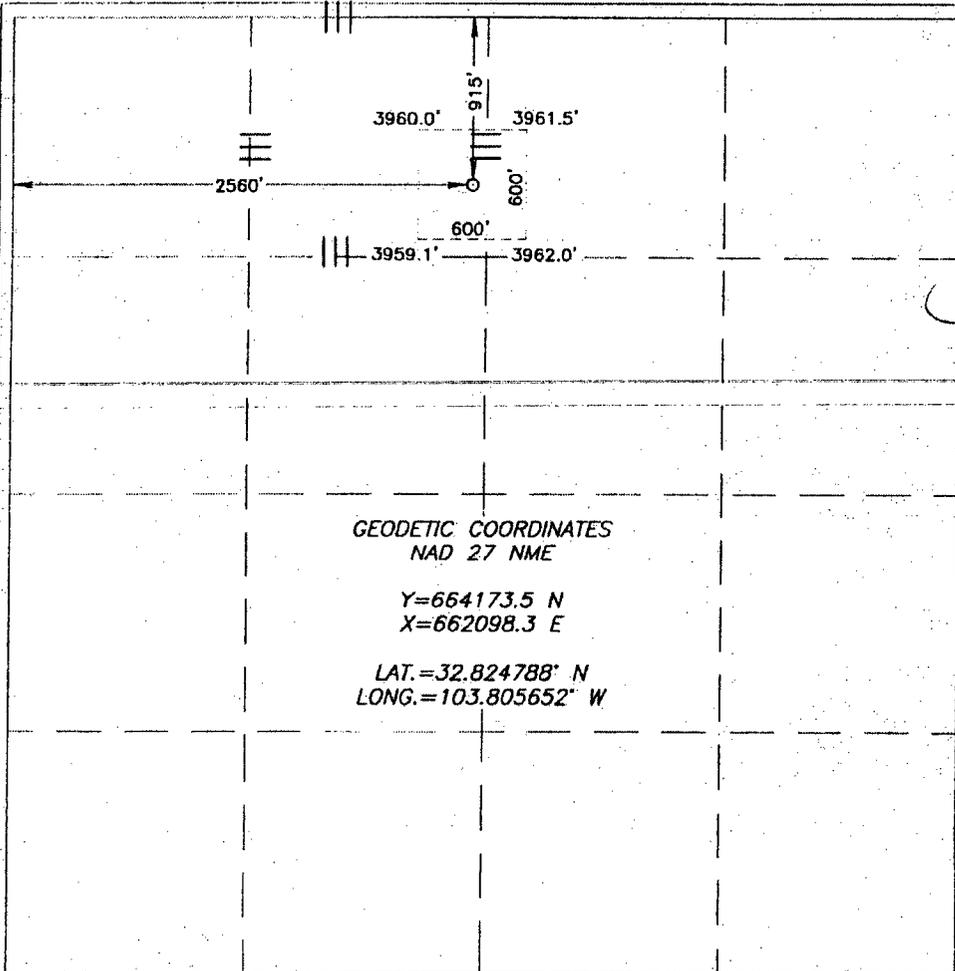
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	19	17-S	32-E		915	NORTH	2560	WEST	LEA

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

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40			

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



GEODETIC COORDINATES  
NAD 27 NME

Y=664173.5 N  
X=662098.3 E

LAT.=32.824788° N  
LONG.=103.805652° W

OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Phyllis A. Edwards* Date: 2-7-08

Phyllis A. Edwards

Printed Name

Regulatory Analyst

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.

Date Surveyed: JANUARY 30, 2008 AR/DSS

Signature & Seal of Professional Surveyor  
3239

*Phyllis A. Edwards*  
2/10/08  
008-11-0167

Certificate No. GARY G. EIDSON 12641  
RONALD J. EIDSON 3239

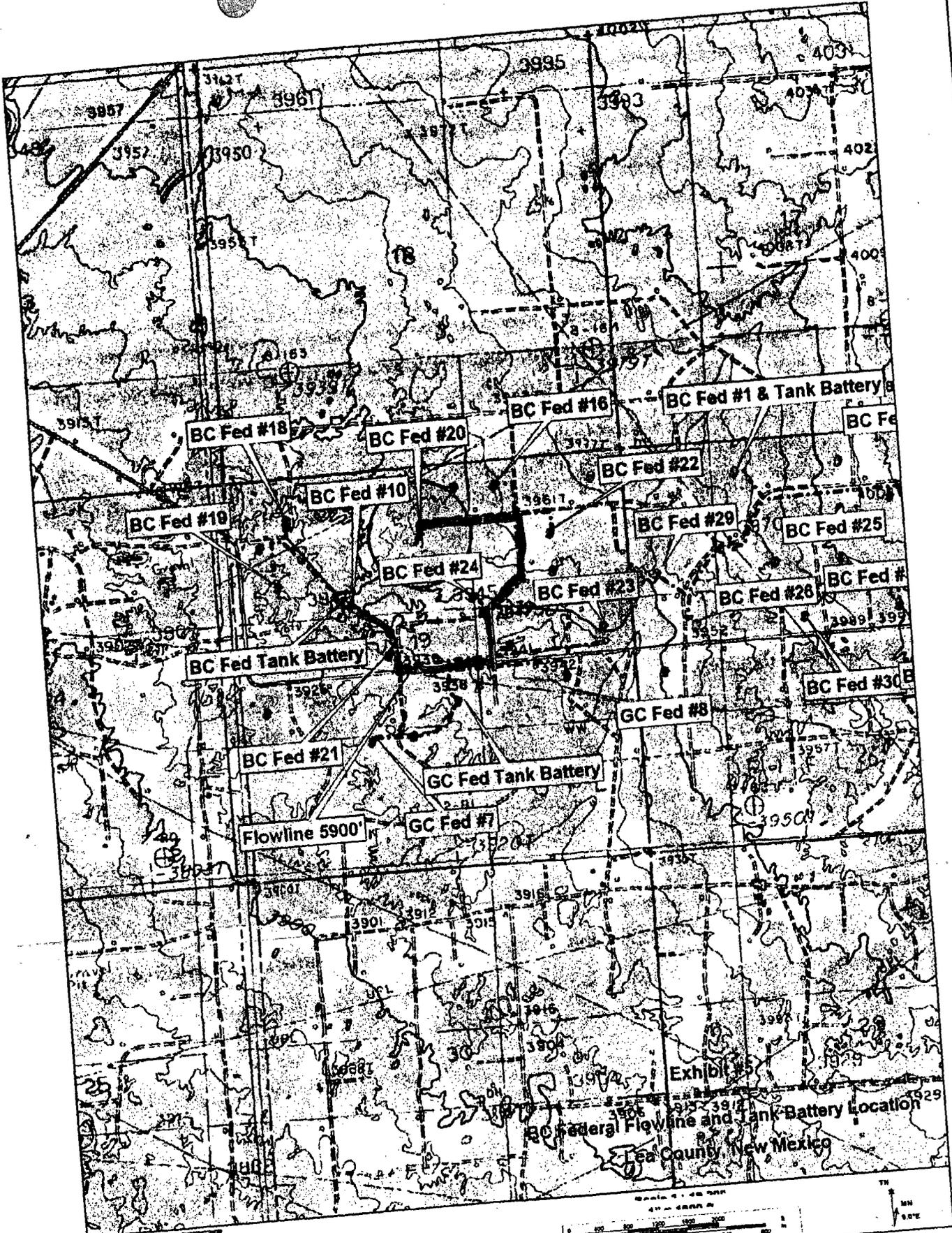
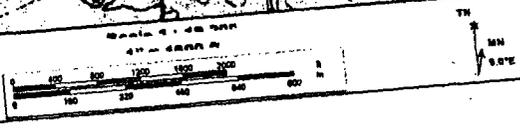


Exhibit #5  
 30 Federal Flowline and Tank Battery Location  
 Lea County, New Mexico





# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

**Mark E. Fesmire, P.E.**

Director

**Oil Conservation Division**

December 06, 2007

Phyllis Edwards  
Regulatory Analyst  
COG Operating, LLC  
550 W. Texas Avenue, Suite 1300  
Midland, Texas 79701

RE: **B C Federal Well No. 20**  
**990 feet FNL & 2560 feet FWL (Unit E) (Unorthodox)**  
**NE/4NW/4 of Section 19, T-17 -S, R-32-E,**  
**NMPM, Lea County, New Mexico**

**Administrative Order NSL-5733**

Dear Ms Edwards:

Reference is made to the following:

- (a) your application (**administrative application reference No. pKVR0731328466**) submitted to the New Mexico Oil Conservation Division (the Division) in Santa Fe, New Mexico on November 6, 2007; and
- (b) the Division's records pertinent to COG's request.

COG Operating, LLC, requests to drill its B C Federal Well No. 20 at an unorthodox Maljamar; Yeso oil well location as referenced above in Section 19, Township 17 South, Range 32 East, N.M.P.M., in Lea County, New Mexico.

The NE/4NW/4 of Section 19 will be dedicated to this well to form a standard 40-acre oil spacing and proration unit. COG Operating, LLC, intends to test the Maljamar; Yeso Oil Pool. This pool is governed by the Division's Statewide Rules and Regulations which provide for wells on 40-acre spacing units to be located no closer than 330 feet to a quarter-quarter section line.

The location of the well is due to the presence of sand Dunes in the area and COG does not wish to drill a directional well to cut drilling costs.

Your application has been duly filed under the provisions of Division Rules 104. F. It is our understanding that the offsetting acreage has interest ownership identical in all respects, therefore no notice of this application is required.

Pursuant to the authority granted under the provisions of Division Rules 104. F(2), the above-described unorthodox Maljamar; Yeso oil pool location is hereby approved.

Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark E. Fesmire". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Mark E. Fesmire, P.E.  
Director

MEF/re

cc: New Mexico Oil Conservation Division – Hobbs  
Bureau of Land Management (BLM) - Carlsbad



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

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COG Operating, LLC  
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Midland, Texas 79701

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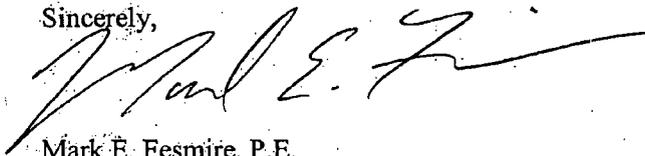
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cc: New Mexico Oil Conservation Division - Hobbs  
Bureau of Land Management (BLM) - Carlsbad

Office  
 District I  
 1625 N. French Dr., Hobbs, NM 88240  
 District II  
 1301 W. Grand Ave., Artesia, NM 88210  
 District III  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV  
 1220 S. St. Francis Dr., Santa Fe, NM  
 87505

State of New Mexico  
 Energy, Minerals and Natural Resources

Form C-103  
 May 27, 2004

OIL CONSERVATION DIVISION  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. <b>30-025-</b>
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease <b>FEDERAL</b> STATE <input type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator <b>COG Operating LLC</b>		6. State Oil & Gas Lease No.
3. Address of Operator <b>550 W. Texas Ave., Suite 1300 Midland, TX 79701</b>		7. Lease Name or Unit Agreement Name <b>B C FEDERAL</b>
4. Well Location Unit Letter <b>C</b> : <b>990'</b> feet from the <b>North</b> line and <b>2560'</b> feet from the <b>West</b> line Section <b>19</b> Township <b>17S</b> Range <b>32E</b> NMPM County <b>LEA</b>		8. Well Number <b>20</b>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <b>3960' GR</b>		9. OGRID Number <b>229137</b>
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input checked="" type="checkbox"/>		
Pit type <b>DRILLING</b> Depth to Groundwater <b>110'</b> Distance from nearest fresh water well <b>1000'</b> Distance from nearest surface water <b>1000'</b>		
Pit Liner Thickness: <b>12 mil</b> Below-Grade Tank: Volume _____ bbls; Construction Material _____		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/>		SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: <b>Move location</b> <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

The present location for this well is:  
 990 FNL & 2560 FWL, Section 19, T17S, R32E

The Bureau of Land Management requested that the location be moved to:  
 915 FNL & 2560 FWL, Section 19, T17S, R32E

Attached is the plat and flowline map showing the new location of:  
 915 FNL & 2560 FWL, Section 19, T17S, R32E

Please amend NSL 5733 (attached) to reflect this location change.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit  or an (attached) alternative OCD-approved plan .

SIGNATURE Phyllis Edwards TITLE Regulatory Analyst DATE 4-2-08

Type or print name **Phyllis Edwards** E-mail address: **pedwards@conchoresources.com** Telephone No. **432-685-4340**  
**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 Conditions of Approval (if any): \_\_\_\_\_

State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT I

1620 N. FRENCH DR., HOHBS, NM 86240

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III

1000 Rio Braxos Rd., Aztec, NM 87410

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

Form C-102

Revised October 12, 2005

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Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
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	<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement, or a compulsory pooling order heretofore entered by the division.</p> <p><i>Phyllis A. Edwards</i> 2-7-08 Signature Date</p> <p>Phyllis A. Edwards Printed Name</p> <p>Regulatory Analyst</p>
	<p><b>SURVEYOR CERTIFICATION</b></p> <p>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>JANUARY 30, 2008 Date Surveyed AR/DSS</p> <p>Signature &amp; Seal of Professional Surveyor <i>Ronald J. Eidson</i> 02/05/08 08.11.0167</p> <p>Certificate No. GARY G. EIDSON 12841 RONALD J. EIDSON 3239</p>
<p>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=664173.5 N X=662098.3 E</p> <p>LAT.=32.824788° N LONG.=103.805652° W</p>	