

DATE: 9/20/13	SUSPENSE	ENGINEER: WJS	LOGGED IN	TYPE: SWD	APP NO: 1305935524
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



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.

Mark A. Fairchild
 Print or Type Name

Mark A. Fairchild
 Signature

Senior Operations Engineer
 Title

01/22/2013
 Date

MFairchild@Conchoresources.com
 e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance ☒ Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No

II. OPERATOR: **COG Operating, LLC.**

ADDRESS: **550 West Texas, Ste 100, Midland TX 79701-4287**

CONTACT PARTY: **Mark A. Fairchild** PHONE: **432-686-3021**

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____ Yes ☒ No
If yes, give the Division order number authorizing the project: _____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: **Mark A. Fairchild** TITLE: **Sr. Operations Engr.**

SIGNATURE: Mark A. Fairchild DATE: **1/22/2013**

E-MAIL ADDRESS: **MFairchild@Concho.com**

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

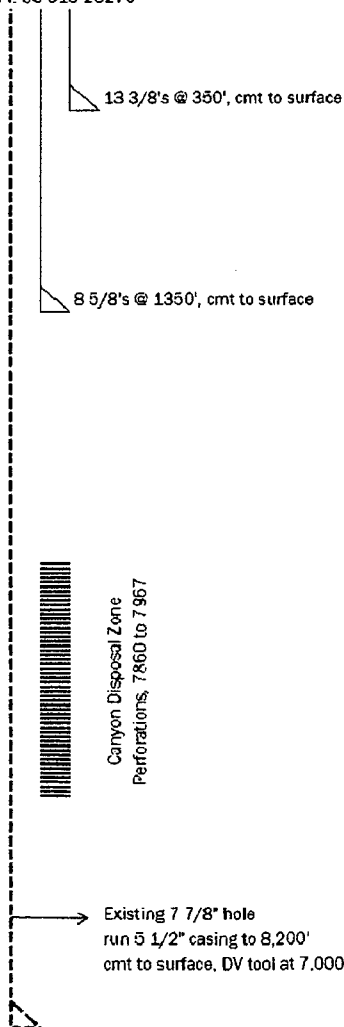
INJECTION WELL DATA SHEET

OPERATOR: **COG Operating, LLC.**WELL NAME & NUMBER: **Lakewood SWD #4 (Re Entry of API 30-015-26270)**

WELL LOCATION: **1980 FSL; 660 FWL** **L** **6** **T19S** **R26E**
 FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

Lakewood SWD #4 (former Howe 6L #1)
 API: 30-015-26270



*Cement volumes will increase of those shown on this application to account for hole conditions unknown at this time.

WELL CONSTRUCTION DATASurface Casing**This casing string exists.**

Hole Size: **17 1/2"** Casing Size: **13 3/8" @ 350'**
 Cemented with: **520** SX. or _____ ft³
 Top of Cement: **Surface** Method Determined: **Circulate**

Intermediate Casing**This casing string exists.**

Hole Size: **12 1/4"** Casing Size: **8 5/8" @ 1,350'**
 Cemented with: **865 + 1"** SX. or _____ ft³
 Top of Cement: **Surface** Method Determined: **Circulated**

Production Casing**This string to be run.**

Hole Size: **7 7/8"** Casing Size: **5 1/2"**
 Cemented with: **1,375** SX. or _____ ft³
 Top of Cement: **Surface** Method Determined: **Circulate**
 Total Depth: **8,200'**

Injection Interval

7,860 feet to **7967**
This interval to be perforated.
 (Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 7/8" EUE Lining Material: Internally plastic coated

Type of Packer: Double grip type, set in neutral

Packer Setting Depth: no more than 100' above top perf

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1. Is this a new well drilled for injection? _____ Yes **X** No

If no, for what purpose was the well originally drilled? **This well was drilled
as a potential Morrow Gas producer.**

2. Name of the Injection Formation: **Canyon**

3. Name of Field or Pool (if applicable): **None**

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. _____

No, none, plugged upon drilling, plugged per NMOCD upon TD of well.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____

Yeso formation at approx. 2,630'

Well: Lakewood SWD #4 (formerly Howe 6L)

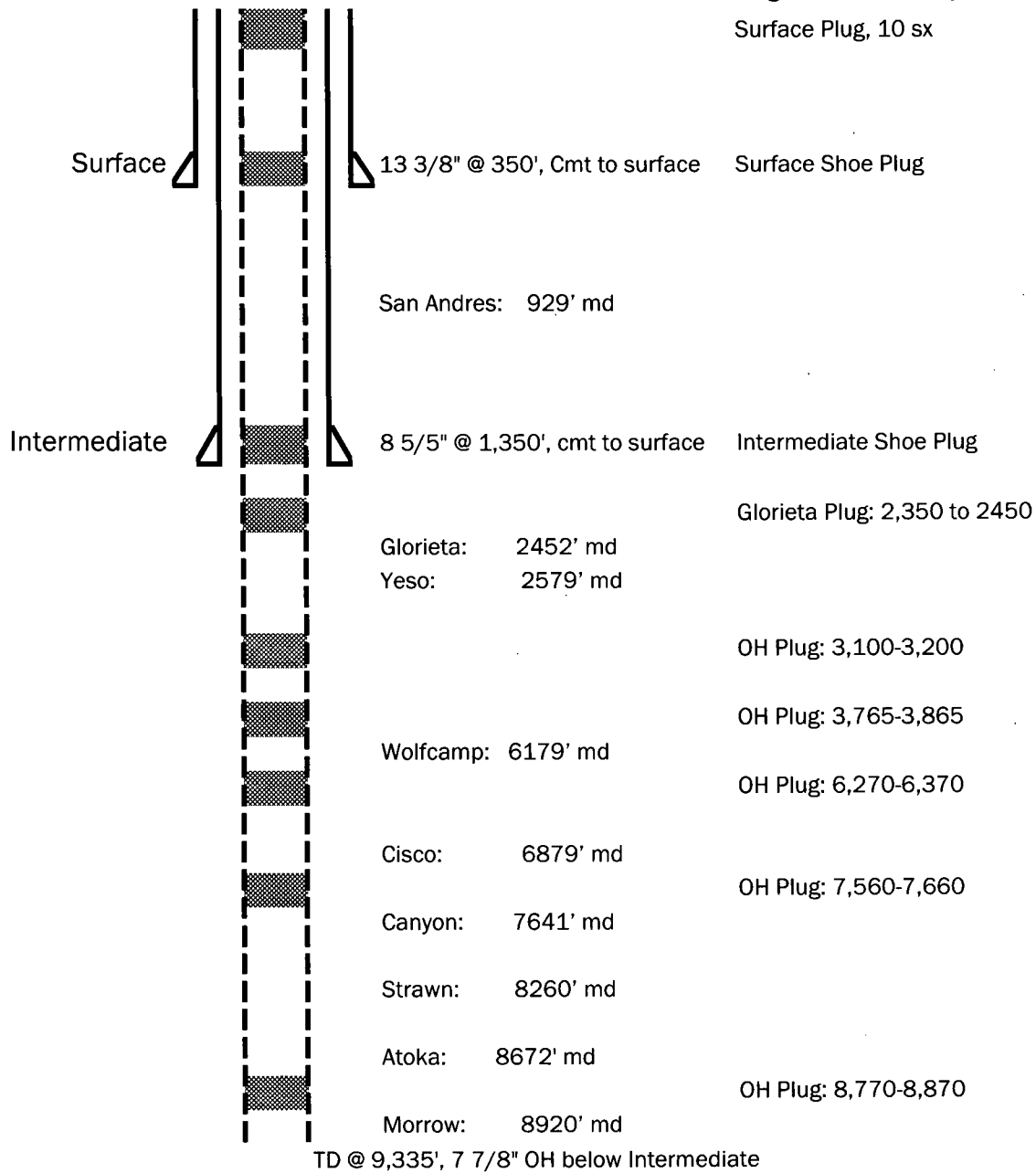
API: 30-015-26270

Elev: 3393' GL

Location: 1980' FSL; 660' FWL, Sec 6, T19S, R26E, Eddy Co. NM

Plugs are indicated by crosshatched fill

Surface Plug, 10 sx



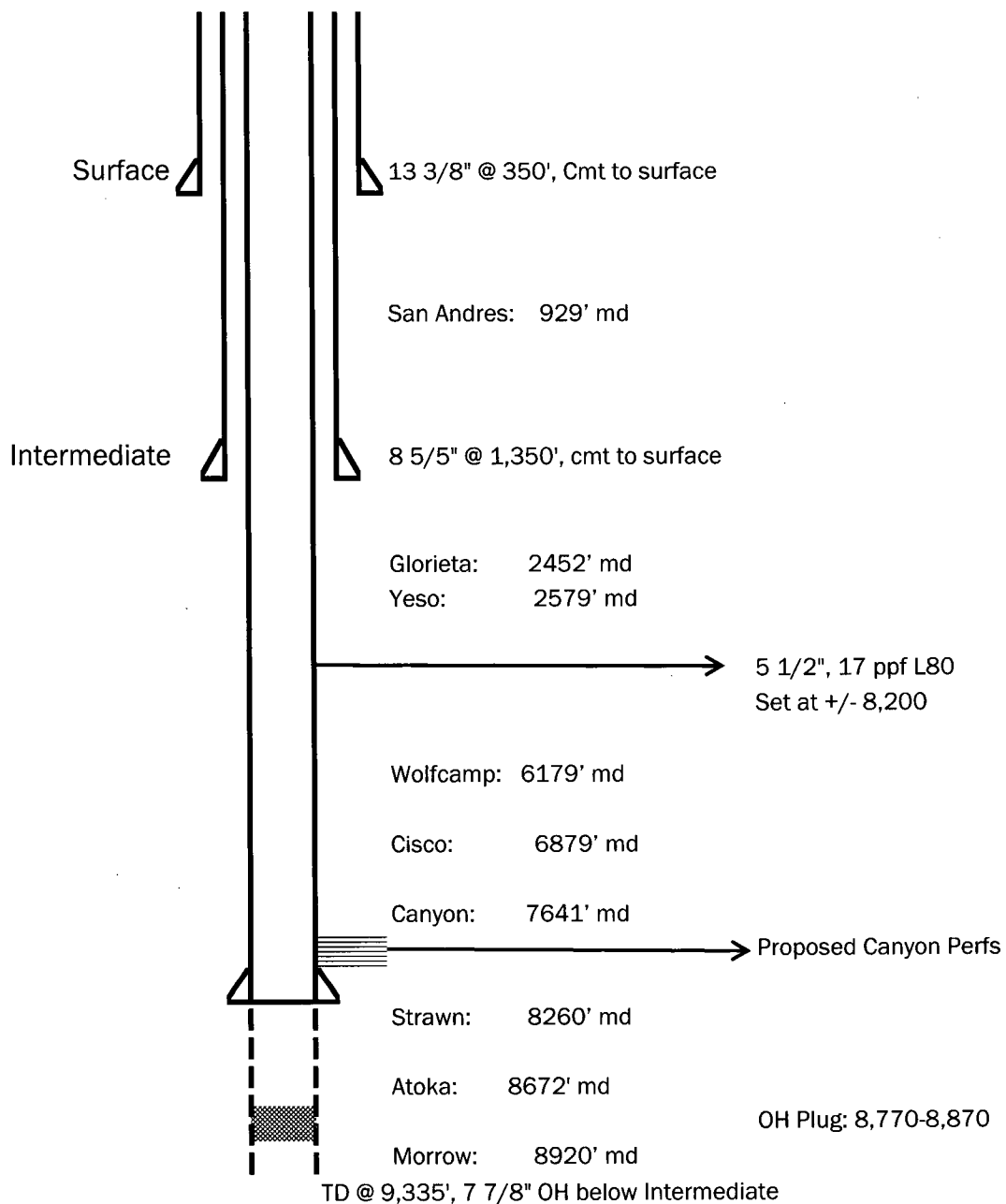
BEFORE

Well: Lakewood SWD #4 (formerly Howe 6L)

API: 30-015-26270

Elev: 3393' GL

Location: 1980' FSL; 660' FWL, Sec 6, T19S, R26E, Eddy Co. NM



AFTER

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Enr Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

dis F
bp

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

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

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

FEB 26 '90

WELL API NO. 30-015-26270
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Howe 6L
8. Well No. 1
9. Pool name or Wildcat Und. West Four Mile Draw-Morrow
10. Elevation (Show whether DF, RCB, RT, GR, etc.) 3393.2' GR

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

1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER P & A
2. Name of Operator Nearburg Producing Company
3. Address of Operator P. O. Box 31405, Dallas, Texas 75231-0405
4. Well Location Unit Letter L : 1,980 Feet From The south Line and 660 Feet From The west Line Section 6 Township 19S Range 26E NMPM Eddy County

11. 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"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: <input type="checkbox"/>	PLUG AND ABANDONMENT <input checked="" type="checkbox"/>
	CASING TEST AND CEMENT JOB <input type="checkbox"/>
	OTHER: <input type="checkbox"/>

12. 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.

02/07/90 Ran electric logs. Logs indicated Morrow to be non-productive.
02/09/90 Plugged well as follows:
Plug #1 - 25 sx 8870-8770 Plug #6 - 25 sx 2450-2350
Plug #2 - 25 sx 7660-7560 Plug #7 - 25 sx 1400-1300
Plug #3 - 25 sx 6370-6270 Tagged @ 1340
Plug #4 - 25 sx 3865-3765 Plug #8 - 25 sx 1340-1240
Plug #5 - 25 sx 3200-3100 Plug #9 - 25 sx 400-300
Tagged @ 3070' Plug #10 - 10 sx Surface

Post ID-2
3-9-90
P & A

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Machelle Byrum TITLE Production Secretary DATE 2/12/90
TYPE OR PRINT NAME Machelle Byrum TELEPHONE NO. 214/739-1778

(This space for State Use)

APPROVED BY Johnny Robinson TITLE OIL AND GAS DATE 6-28-90
CONDITIONS OF APPROVAL, IF ANY: OK
GW

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Benito Rd., Aztec, NM 87410

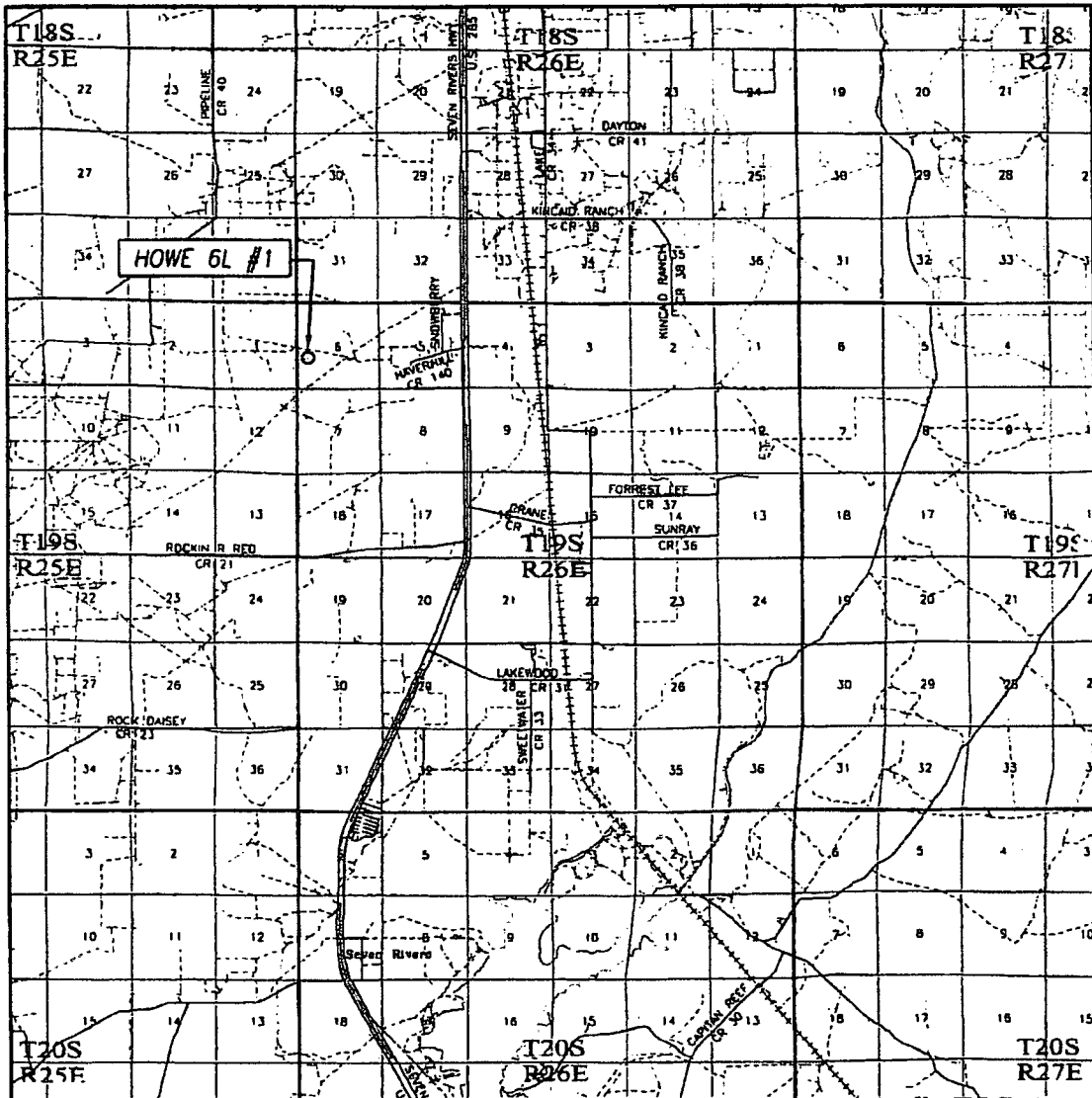
WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Nearburg Producing Company			Lease Howe 6L		Well No. 1
Unit Letter L	Section 6	Township 19 South	Range 26 East	County NMPM Eddy	
Actual Footage Location of Well: 1980 feet from the South line and 660 feet from the West line					
Ground level Elev. 3393.2	Producing Formation MORROW		Pool Und. West Four Mile Draw-Morrow		Dedicated Acreage: 320.00 Acres
<p>1. Outline the acreage dedicated to the subject well by colored pencil or ballpoint marks on the plat below.</p> <p>2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</p> <p>3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes" type of consolidation Pooling</p> <p>If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)</p> <p>No allowable well be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.</p>					
				OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
				Signature <i>Kathie Craft</i>	
				Printed Name Kathie Craft	
				Position Land Administrator	
				Company Nearburg Producing Co.	
				Date January 3, 1990	
				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 knowledge and belief.	
				Date Surveyed November 10, 1989	
				Signature & Seal of Professional Surveyor <i>Ronald J. Euse</i>	
				Certificate No. 6046 W. 676	
				NEW MEXICO JOHN W. WEST 3239	

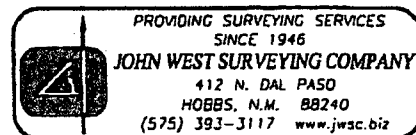
[illegible]

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 6 TWP. 19-S RGE. 26-E
 SURVEY N.M.P.M.
 COUNTY EDDY STATE NEW MEXICO
 DESCRIPTION 1980' FSL & 660' FWL
 ELEVATION 3393.2'
 OPERATOR NEARBURG PRODUCING CO.
 LEASE HOWE 6L



Lakewood SWD #4

Producing
None.

Wells within area of review that penetrate proposed disposal interval:

Plugged Wells within area of review:

API #: 3001522420 Well_Name: LIGGETT COM # 001

Location: J-6-19.0S-26E , 1980 FSL, 1980 FEL Lat:32.6880930252 Long:-104.419370519

Operator Name: NEARBURG PRODUCING CO County: Eddy

Land Type: Private Well Type: Gas Spud Date: N/A Plug Date:1/31/2001

Elevation GL: 3376 Depth TVD: 9318

API #: 3001524163 Well_Name: ANDERSON # 001

Location: J-1-19.0S-25E , 1980 FSL, 1980 FEL Lat:32.6881234056 Long:-104.436307982

Operator Name: ANADARKO PETROLEUM CORP County: Eddy

Land Type: Private Well Type: Gas Spud Date: N/A Plug Date:2/8/1994 1

Elevation GL: Depth TVD:

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

C15F
AP

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

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

WELL API NO. 30-015-22420
Indicate Type of Lease STATE FEE <input checked="" type="checkbox"/>
State Oil & Gas Lease No.
Lease Name or Unit Agreement Name Ligett, et al Com
Well No. 1
Pool name or Wildcat W. Four Mile Draw Morrow

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.)	
Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL _____ OTHER _____	
Name of Operator Nearburg Producing Company	
Address of Operator 3300 N A St., Bldg 2, Suite 120, Midland, TX 79705	
Well Location Unit Letter <u>J</u> 1980 Feet From The <u>East</u> Line and <u>1980</u> Feet From The <u>South</u> Line Section <u>6</u> Township <u>19S</u> Range <u>26E</u> NMPM <u>Eddy</u> County	
Elevation (Show whether DF, RKB, RT, GR, etc.) 3376' GR	

11

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

NOTICE OF INTENTION TO:

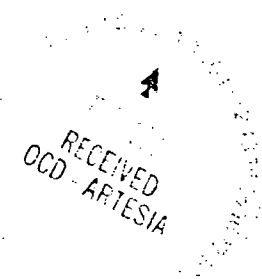
PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
 PULL OR ALTER CASING ☐
 OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ PLUG AND ANBANDONMENT ☒
 CASING TEST AND CEMENT JOB ☐
 OTHER: ☐

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.

- 1.) MIRU P&A rig on 01/22/01.
- 2.) Set CIBP @ 9110'. Spot 25 sx plug on top. Tagged plug. 01/23/01.
- 3.) Spot 25 sx cement plug @ 8142'.
- 4.) Spot 25 sx cement plug @ 6270' to 5940'. 01/25/01.
- 5.) Cut csg @ 4,000' & pull 4-1/2" csg. 01/27/01.
- 6.) TIH to 4157', spot 50 sx cmt plug. WOC. 01/29/01.
- 7.) Tagged top of plug @ 3844'. Spot 30 sx cmt @ 2371' to 2488'.
- 8.) Spot 35 sx cmt plug @ 1350. WOC. WOC. Tagged @ 1240'.
- 9.) Spot 35 sx cmt plug @ 360'. WOC. Tagged @ 255'. 01/30/01.
- 10.) Set 30' surface plug.
- 11.) Set dry hole marker.
- 12.) Well P&A'd. RDMO on 01/31/01. FINAL REPORT.



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kim Stewart TITLE Regulatory Analyst DATE 02-07-01

TYPE OR PRINT NAME Kim Stewart

TELEPHONE NO. 915/686-8235

(This space for State Use)

[Handwritten signatures and initials]

MAR 7 2002

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

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

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO.
30-015-22420

Indicate Type of Lease
STATE FEE ☒

State Oil & Gas Lease No.

Lease Name or Unit Agreement Name
Liggett, et al Com

Well No.
1

Pool name or Wildcat
W. Four Mile Draw Morrow

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.)

Type of Well:
OIL WELL ☒ GAS WELL OTHER

Name of Operator
Nearburg Producing Company

Address of Operator
3300 N A St., Bldg 2, Suite 120, Midland, TX 79705

Well Location
Unit Letter J 1980 Feet From The East Line and 1980 Feet From The South Line
Section 6 Township 19S Range 26E NMPM Eddy County

Elevation (Show whether DF, RKB, RT, GR, etc.)
3376' GR

11

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK

PLUG AND ABANDON ☒

TEMPORARILY ABANDON

CHANGE PLANS ☐

PULL OR ALTER CASING

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING

COMMENCE DRILLING OPNS.

PLUG AND ANBANDONMENT

CASING TEST AND CEMENT JOB

OTHER: ☐

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.

- 1.) MIRU P&A rig.
- 2.) Set CIBP @ 9110'. Dump 35' cmt on plug.
- 3.) Spot 25 sx cement plug @ 8142' (DV Tool @ 8092').
- 4.) Spot 25 sx cement plug @ 5940' to 6270' (Top Wolfcamp @ 5990').
- 5.) Cut & pull 4-1/2" csg @ 5000'.
- 6.) Spot 40 sxs cmt stub plug 50' in and 50' out. (Tag)
- 7.) Spot 35 sx cmt @ 1350' (8-5/8" shoe @ 1300'). (Tag)
- 8.) Spot 35 sx cmt @ 360'. (13-3/8" shoe @ 310'). (Tag)
- 9.) Set 30' surface plug.
- 8.) Install dry hole marker.

* Spot 25 sx cement Plug 4152'

* Spot 25 sx cement Plug 2488'

* Brine gel between all cement Plugs.



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Kim Stewart

TITLE Regulatory Analyst

DATE 10-02-00

TYPE OR PRINT NAME Kim Stewart

TELEPHONE NO. 915/686-8235

(This space for State Use)

30-015-22420

J-6-195 26e

Neuburg Prod. Co.

Liggett et al Com. #1

* Spot 30' cement surface Plug.

Top!

* Spot 355x cement Plug 360'

T. 610129 - 2113'

* Spot 355x cement Plug 1350' TOL

T. B.S. - 4127'

T. W.L. - 5990'

* Spot 255x cement Plug 2480'

T. Morrow - 9060'

* Spot 255x cement Plug 4157'

* Cut & Pull 4 1/2" csg @ 5000'

Spot 405x cement Plug 50' in + 50' out 4 1/2" csg stub. TOL

* Spot 255x cement Plug 6040'

* Spot 255x cement Plug 8142

* Circulate brine gel.

* Run & set CIBP @ 9110' w/ 35' cement

13 3/4" - 310'
circ.8 5/8" - 1300'
circ.

✓ 8042 DV Tool



T. Perf. - 9166'

4 1/2" - 9368

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-100
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

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

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MAR 3

WELL API NO. <u>24163</u> 30-015- <u>21463</u>	
5. Indicate Type of Lease 1994 STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name Anderson	
8. Well No. 1	
9. Pool name or Wildcat Boyd Morrow (Gas)	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3413.9 GL	

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
Anadarko Petroleum Corporation

3. Address of Operator
PO Drawer 130, Artesia, NM 88211-0130

4. Well Location
Unit Letter J : 1980 Feet From The South Line and 1980 Feet From The East Line
Section 1 Township 19S Range 25E NMPM Eddy County

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
<p>NOTICE OF INTENTION TO:</p> <p>PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/></p> <p>TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/></p> <p>PULL OR ALTER CASING <input type="checkbox"/></p> <p>OTHER: <input type="checkbox"/></p>	<p>SUBSEQUENT REPORT OF:</p> <p>REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/></p> <p>COMMENCE DRILLING OPNS. <input type="checkbox"/> PLUG AND ABANDONMENT <input checked="" type="checkbox"/></p> <p>CASING TEST AND CEMENT JOB <input type="checkbox"/></p> <p>OTHER: <input type="checkbox"/></p>

12. 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.

Note: This well had collapsed and parted 4½" casing when started plugging. See attached well diagram.

- Rigged up coiled tbq unit. TOH with 1½" coiled tbq and pker. Set blanking plug in 1.81" profile 9089'.
- Perforated 4 holes in 2 7/8" tbq at 9080'. WIH with pker on coiled tbq and set at 8400'. Spotted 28 sx Class H cement with 1% Halad 322 and 2/10 of 1% HR-7 down coiled tbq and out perfs in tbq, from 9080' up to 8640'.
- TOH with coiled tbq and pker. WOC 6 hrs. Tagged top of plug at 8739'. This plug covers Morrow top.
- Rigged down coiled tbq unit. RUPU. Spotted 73 sx Class H with 2% CaCl from 8224' up to 7075' by pumping down 2 7/8" tbq. Out hole in tbq at 8224' and up 4½" casing. WOC. Tagged top of plug at 7063'. This plug covers Strawn Canyon and Penn tops. (Cont'd) page 2

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Mike Braswell TITLE Field Foreman DATE 03-01-94
TYPE OR PRINT NAME Mike Braswell TELEPHONE NO. 505-677-241

(This space for State Use)

APPROVED BY Mike Swales TITLE Field Rep I DATE June 9-94

Form C-103
Anadarko Petroleum
03-01-94

PAGE 2

5. Cut off 2 7/8" tbg at 5800'. TOH with tbg. Pulled on 4½" and found parted. Recovered 1574' of 4½" casing.
6. WIH with overshot on 4½" casing and tied casing back together.
7. WIH with pker on 2 3/8" tbg and set at 5328' KB. Pressured to 2000#. Held. WIH with perf gun thru tbg and shot 4 holes in 4½" casing at 5737'. Cement squeeze with 84 sx Class H with 2% CaCl from 5737' up to 5500'. WOC. Tagged top of plug at 5726'. Not enough plug.
8. Spotted 12 sx Class H with 2% CaCl from 5721' up to 5559'. TOH. This plug covers Wolfcamp top.
9. Perforated 4 holes in casing at 2488'. WIH with pker and set at 2200'. Spotted 66 sx Class H with 2% CaCl in and out of 4½" casing from 2488' up to 2300'. WOC. Tagged top of plug 2321'. TOH. This plug covers Glorieta top.
10. Unset overshot on 4½" casing and TOH with 1574' of casing.
11. WIH with 2 3/8" tbg open ended and spotted 200 sx Class H with 2% CaCl from 1626' up to 1150'. WOC. Tagged top of plug at 1232'. This plug covers 4½" stub and 8 5/8" casing shoe.
12. Pulled up and spotted 30 sx Class H from 511' up to 410'. This plug covers 13 3/8" casing shoe.
13. Pulled up and spotted 50' surface plug 02-08-94. RDP.
14. Cleaned location and set P&A marker. Will do surface restoration as per agreement with land owner (Ralph Schafer).

Note: Salt gel mud is between all plugs and Johnny Robinson, with NMOCD, witnessed plugging of well.

ANADARKO

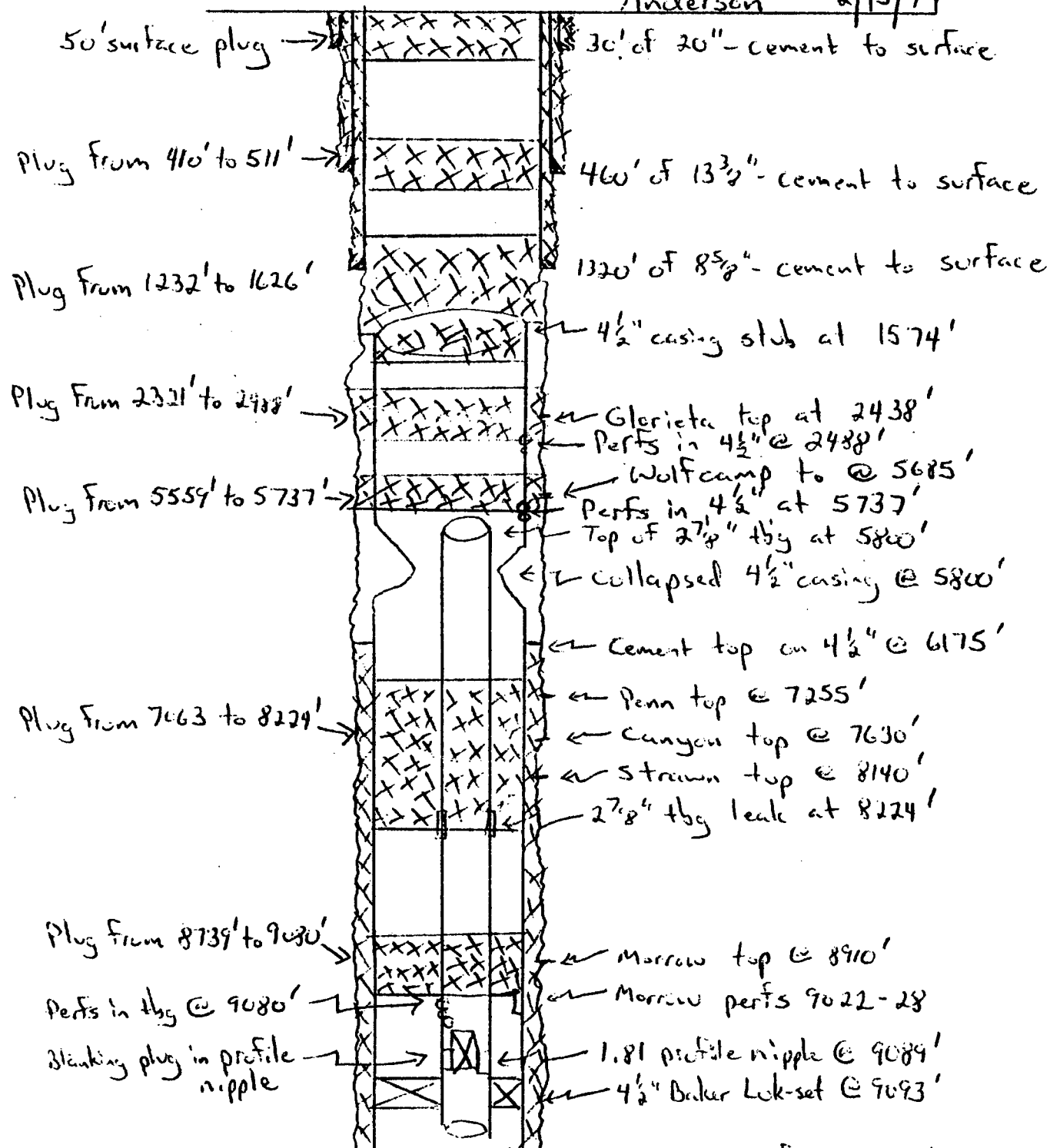
P.O. DRAWER 130

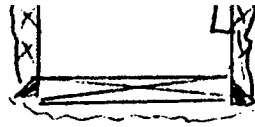
ARTESIA, NEW MEXICO 88210

(505)

Anadarko

Anderson 2/15/94





LYC Monlew peltis 7174-86



COG SENM SWD Well Questionnaires

Date: 1/23/2013

By: Mark A. Fairchild, Office: 432-686-3021

Note: Answers to questions in this color

What will be the well name?

Lakewood SWD #4

What logs have been/will be run in the well?

Logs will be run as follows: porosity and resistivity

How will you re-enter/drill/convert the well?

The well will be re entered and 5 1/2" casing run

How will you test the mechanical integrity of the casing?

A State of New Mexico supervised MIT test to 500 psig will be run on the tubing/casing annulus.

What size tubing do you plan to use?

The tubing will be 2 7/8" Nominal OD.

How will tubing be internally lined?

The tubing will be internally plastic coated.

What type packer will be used?

A nickel plated compression set packer will be utilized.

Where will packer be set?

To within 50 to 100' above casing shoe.

Will there be any other type of casing/tubing seal?

No.

What is the fracture gradient?

Approx 0.75

Will the well be stimulated?

Yes

If yes, how will the well be stimulated?

Large conventional acid job.

Into what perforated intervals will you inject?

Canyon Reef: 7,860 to 7,967

What will be the average daily volume injected?

10-15,000 BWPD

What will be the maximum daily volume injected?

20, 000 BWPD

What will be the average injection pressure?

Vacuum

What will be the maximum injection pressure?

1582.7 psig

Will water be trucked or piped to the well?

Piped

What wells will dispose into it?

COG Operated wells in this area.

Any non-COG wells?

There will be no non operated wells that dispose into this well.

What surface facilities (e.g.; tanks, pumps, filters) will be installed?

4 - 750 Bbl water storage tanks, 1 - 1,000 Bbl Gun Barrel

2 - 500 Bbl steel tanks, 1 - 400 BHP H pump

Do you have an analysis of the produced water you plan to inject?

Yes

Do you have an analysis of the formation water into which you'll inject?

No, these well are on a vacuum and do not produce.

How will the geology prevent migration into fresh water zones (e.g., thickness of shale or salt layers)?

Various impervious geological barriers exist between the Canyon and the surface.

Will the system be open or closed?

Closed



New Mexico Office of the State Engineer
Active & Inactive Points of Diversion
(with Ownership Information)

No PODs found.

POD Search:

POD Basin: Jal

Basin/County Search:

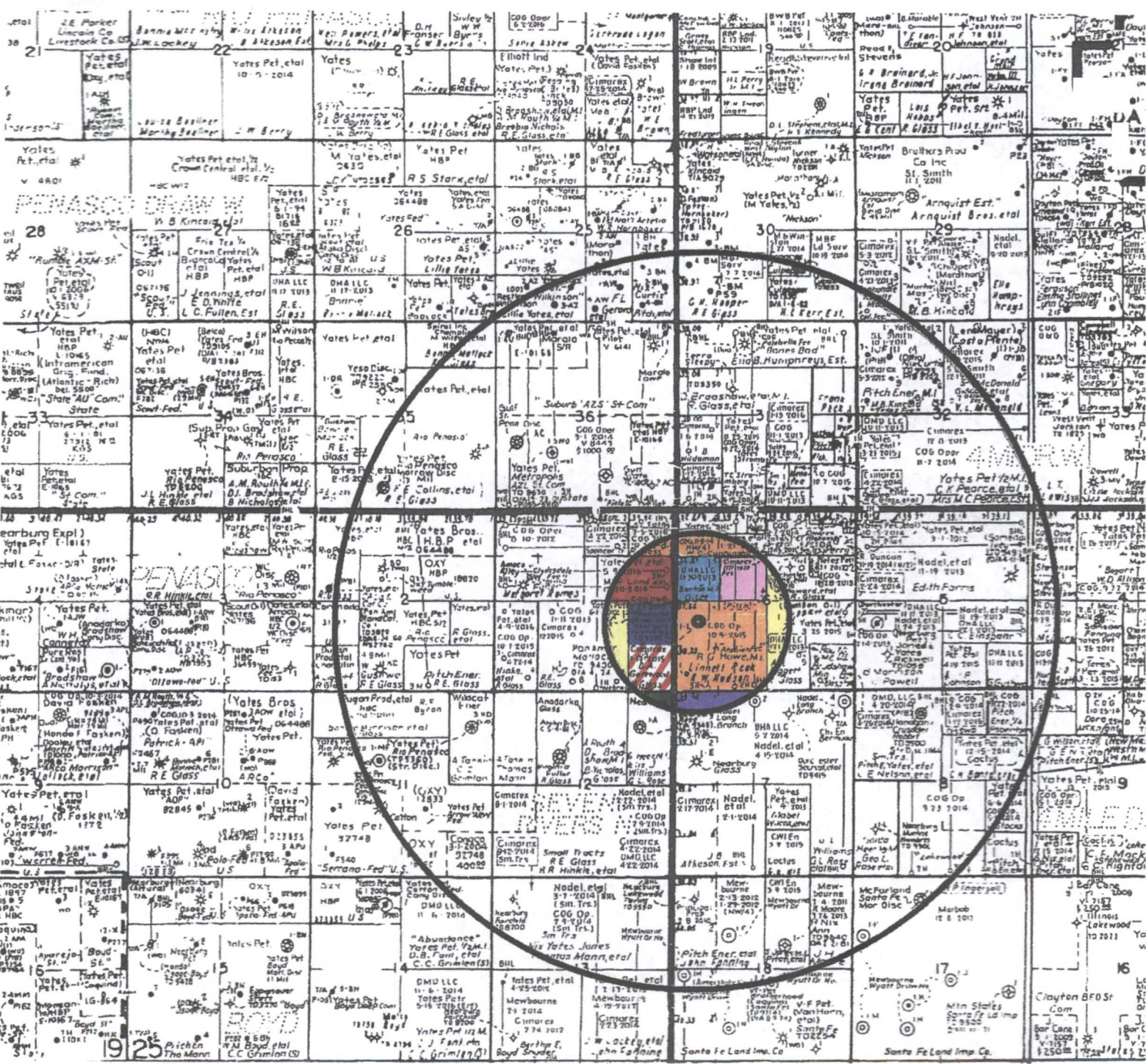
County: Eddy

PLSS Search:

Section(s): 6

Township: 19S

Range: 26E



- COG Operating
- Yates Petroleum
- Cimarex
- Cimarex & COG Operating
- Nearburg & BHA, LLC
- Nearburg
- Yates Petroleum, COG Operating, Wolfcamp Title LLC, Oxy y-1 & Company
- COG Operating, Wolfcamp Title LLC, Oxy y-1 & Company
- Cimarex, Wolfcamp Title LLC, Oxy y-1 & Company

Notice

February 13th, 2013

NMOCD (District 2)
811 S. First St.
Artesia, NM 88210

COG Operating LLC is applying (see attached application) to re-enter the Howe 6L #1 well and convert to the Lakewood SWD #4 as a salt water disposal well described below. As required by New Mexico Oil Conservation Division Rules, I am supply the District office of the NMOCD with a copy of the application that has been sent to main office in Sante Fe.

Well: Lakewood SWD #4

Proposed Disposal Zone: Canyon (from 7,860' to 7,967')

Location: 1980' FSL & 660' FWL Sec 6, T19S, R26E

Eddy County, NM

Approximate Location: 2 miles west of Seven Rivers Hwy and CR 140

Applicant Name: COG Operating LLC (432) 685-4340

Applicant's Address: 550 West Texas, Suite 1300, Midland, TX 79701

Please call me if you have any questions.

Sincerely,

Mark Fairchild
T.O.

Mark Fairchild
(432) 686-3021

7011 0470 0001 5496 6290

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Total Postage & Fees	\$ \$7.37	

Sent To: NMOCD (District 2)
Street, Apt. No.,
or PO Box No. 811 S. First St.
City, State, ZIP+4 Artesia, NM 88210

PS Form 3800, August 2006 See Reverse for Instructions

Notice

February 13th, 2013

Oxy USA Inc.
P.O. Box 50250
Midland, TX 79710

COG Operating LLC is applying (see attached application) to re-enter the Howe 6L #1 well and convert to the Lakewood SWD #4 as a salt water disposal well described below. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well: Lakewood SWD #4

Proposed Disposal Zone: Canyon (from 7,860' to 7,967')

Location: 1980' FSL & 660' FWL Sec 6, T19S, R26E
Eddy County, NM

Approximate Location: 2 miles west of Seven Rivers Hwy and CR 140

Applicant Name: COG Operating LLC (432) 685-4340

Applicant's Address: 550 West Texas, Suite 1300, Midland, TX 79701

Submittal Information: Application for a water disposal well will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

Mark Fairchild
T.O.

Mark Fairchild
(432) 686-3021

9056 9645 1000 6306

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USPS 02/13/2013

Sent To: Oxy USA Inc.
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City, State, ZIP+4: Midland, TX 79710

PS Form 3800, August 2006 See Reverse for Instructions

Notice

February 13th, 2013

Wolfcamp Title, LLC
105 W. 3rd
Roswell, NM 88202

COG Operating LLC is applying (see attached application) to re-enter the Howe 6L #1 well and convert to the Lakewood SWD #4 as a salt water disposal well described below. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well: Lakewood SWD #4

Proposed Disposal Zone: Canyon (from 7,860' to 7,967')

Location: 1980' FSL & 660' FWL Sec 6, T19S, R26E

Eddy County, NM

Approximate Location: 2 miles west of Seven Rivers Hwy and CR 140

Applicant Name: COG Operating LLC (432) 685-4340

Applicant's Address: 550 West Texas, Suite 1300, Midland, TX 79701

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Please call me if you have any questions.

Sincerely,

Mark Fairchild

Mark Fairchild
(432) 686-3021

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Total Postage & Fees	\$ 7.37

Sent To: Wolfcamp Title, LLC
Street, Apt. No., or PO Box No.: 105 W. 3rd
City, State, ZIP+4: Roswell, NM 88202

PS Form 3800, August 2006 See Reverse for Instructions

Notice

February 13th, 2013

Nearburg Producing Company
Attn: Terri Stathem
3300 N "A" St., Bldg. 2, Suite 120
Midland, TX 79707

COG Operating LLC is applying (see attached application) to re-enter the Howe 6L #1 well and convert to the Lakewood SWD #4 as a salt water disposal well described below. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well: Lakewood SWD #4

Proposed Disposal Zone: Canyon (from 7,860' to 7,967')

Location: 1980' FSL & 660' FWL Sec 6, T19S, R26E

Eddy County, NM

Approximate Location: 2 miles west of Seven Rivers Hwy and CR 140

Applicant Name: COG Operating LLC (432) 685-4340

Applicant's Address: 550 West Texas, Suite 1300, Midland, TX 79701

Submittal Information: Application for a water disposal well will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

Mark Fairchild

Mark Fairchild
(432) 686-3021

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Total Postage & Fees	\$ 7.37

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02/13/2013

Sent To
Nearburg Producing Company
Street, Apt. No.,
or PO Box No. *3300 N "A" St., Bldg. 2 Suite 120*
City, State, ZIP+4[®] *Midland, TX 79707*

PS Form 3800, August 2006 See Reverse for Instructions

7011 0470 0001 5496 6283

Notice

February 13th, 2013

Mary Ellen Taylor
7172 Regional St.
Dublin, CA 94568

COG Operating LLC is applying (see attached application) to re-enter the Howe 6L #1 well and convert to the Lakewood SWD #4 as a salt water disposal well described below. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well: Lakewood SWD #4

Proposed Disposal Zone: Canyon (from 7,860' to 7,967')

Location: 1980' FSL & 660' FWL Sec 6, T19S, R26E

Eddy County, NM

Approximate Location: 2 miles west of Seven Rivers Hwy and CR 140

Applicant Name: COG Operating LLC (432) 685-4340

Applicant's Address: 550 West Texas, Suite 1300, Midland, TX 79701

Submittal Information: Application for a water disposal well will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

Mark Fairchild
T.O.

Mark Fairchild
(432) 686-3021

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Total Postage & Fees	\$7.37

0704
MIDLAND, TEXAS
FEB 13 2013
USPS

Sent To: *Mary Ellen Taylor*
Street, Apt. No., or PO Box No.: *7172 Regional St.*
City, State, ZIP+4: *Dublin, CA 94568*

PS Form 3800, August 2006 See Reverse for Instructions

7011 0470 0001 5496 6337

Notice

February 13th, 2013

Yate Petroleum Corporation
Attn: Michelle Taylor
105 S. 4th St.
Artesia, NM 88210

COG Operating LLC is applying (see attached application) to re-enter the Howe 6L #1 well and convert to the Lakewood SWD #4 as a salt water disposal well described below. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Location: 1980' FSL & 660' FWL Sec 6, T19S, R26E

Eddy County, NM

Approximate Location: 2 miles west of Seven Rivers Hwy and CR 140

Applicant Name: COG Operating LLC (432) 685-4340

Applicant's Address: 550 West Texas, Suite 1300, Midland, TX 79701

Submittal Information: Application for a water disposal well will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

Mark Fairchild
T.O.

Mark Fairchild
(432) 686-3021

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Sent To: Yate Petroleum Corp.
Street, Apt. No., or PO Box No.: 105 S 4th St.
City, State, ZIP+4: Artesia, NM 88210

PS Form 3800, August 2006 See Reverse for Instructions

Notice

February 13th, 2013

DHA LLC
12204 Towner Ne
Albuquerque, NM 87100

COG Operating LLC is applying (see attached application) to re-enter the Howe 6L #1 well and convert to the Lakewood SWD #4 as a salt water disposal well described below. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well: Lakewood SWD #4

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Eddy County, NM

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Applicant Name: COG Operating LLC (432) 685-4340

Applicant's Address: 550 West Texas, Suite 1300, Midland, TX 79701

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Please call me if you have any questions.

Sincerely,

Mark Fairchild
T.O.

Mark Fairchild
(432) 686-3021

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Street, Apt. No., or PO Box No. 12204	
City, State, ZIP+4 Albuquerque NM 87100	

PS Form 3800, August 2006 See Reverse for Instructions

Notice

February 13th, 2013

Cimarex Energy
1700 Lincoln Street, Suite 1800
Denver, CO 80203

COG Operating LLC is applying (see attached application) to re-enter the Howe 6L #1 well and convert to the Lakewood SWD #4 as a salt water disposal well described below. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well: Lakewood SWD #4

Proposed Disposal Zone: Canyon (from 7,860' to 7,967')

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Eddy County, NM

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Applicant Name: COG Operating LLC (432) 685-4340

Applicant's Address: 550 West Texas, Suite 1300, Midland, TX 79701

Submittal Information: Application for a water disposal well will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

Mark Fairchild
T.O.

Mark Fairchild
(432) 686-3021

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Cimarex Energy	
Street, Apt. No., or PO Box No. 1700 Lincoln Street, Suite 1800	
City, State, ZIP+4 Denver, CO 80203	
PS Form 3800, August 2006	
See Reverse for Instructions	

Affidavit of Publication

State of New Mexico,
County of Eddy, ss.

Kathy McCarroll, being first duly sworn,
on oath says:

That she is the Classified Supervisor of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

February 12 _____ 2013

That the cost of publication is **\$46.75** and that payment thereof has been made and will be assessed as court costs.

Kathy McCarroll

Subscribed and sworn to before me this

12th day of February, 2013

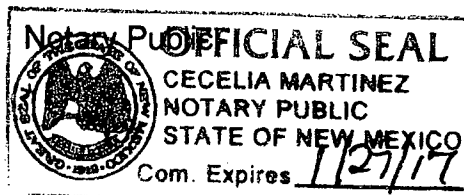
Cecelia Martinez

My commission Expires on 1/27/17

February 12, 2013

Legal Notice
February 7, 2013

COG Operating LLC is applying to re-enter the Howe 6L #1 well and convert to the Lakewood SWD #4 as a water disposal well. The Lakewood SWD #4 well is located at 1980' FSL & 660' FWL, Sec. 6, T. 19 S., R. 26 E., Eddy County, NM. The well will dispose of water produced from oil and gas wells into the Canyon Reef zone at a depth of 7,860' to 7,967' at a maximum rate of 20,000 barrels of water per day and at a maximum pressure of 1,582.7 psi. Interested parties must file objections or requests for hearing with the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505, within 15 days. Additional information can be obtained by contacting Mark Fairchild, COG Operating, LLC, phone number is (432-686-3021).



INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

T. Anhy _____
T. Salt _____
B. Salt _____
T. Yates _____
T. 7 Rivers _____
T. Queen _____
T. Grayburg _____
T. San Andres 1,748
T. Glorieta 2,451
T. Paddock _____
T. Blinberry _____
T. Tubb _____
T. Drinkard _____
T. Abo _____
T. Wolfcamp 6,253
T. Penn _____
T. Cisco (Bough C) 7,305

T. Canyon 7,639
T. Strawn 8,258
T. Atoka 8,672
T. Miss 9,256
T. Devonian _____
T. Silurian _____
T. Montoya _____
T. Simpson _____
T. McKee _____
T. Ellenburger _____
T. Gr. Wash _____
T. Delaware Sand _____
T. Bone Springs 3,650
T. Yeso 2,670
T. Morrow 8,920
T. _____
T. _____

Northwestern New Mexico

T. Ojo Alamo _____
T. Kirtland-Fruitland _____
T. Pictured Cliffs _____
T. Cliff House _____
T. Menefee _____
T. Point Lookout _____
T. Mancos _____
T. Gallup _____
Base Greenhorn _____
T. Dakota _____
T. Morrison _____
T. Todillo _____
T. Entrada _____
T. Wingate _____
T. Chinle _____
T. Permian _____
T. Penn "A" _____

T. Penn. "B" _____
T. Penn. "C" _____
T. Penn. "D" _____
T. Leadville _____
T. Madison _____
T. Elbert _____
T. McCracken _____
T. Ignacio Otzie _____
T. Granite _____
T. _____
T. _____
T. _____
T. _____
T. _____
T. _____
T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____
No. 2, from _____ to _____
No. 3, from _____ to _____
No. 4, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet
No. 2, from _____ to _____ feet
No. 3, from _____ to _____ feet

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
1748	2451	703	Dolomite				
2451	2670	219	Sandy Dolomite				
2670	3650	980	Dolomite & Sandstone				
3650	6253	2603	Limestone & Shale				
6253	7305	1052	Shale & Limestone				
7305	7639	334	Shale				
7639	8258	619	Dolomite & Limestone				
8258	8672	414	Limestone & Shale				
8672	8920	248	Limestone & Shale				
8920	9256	336	Shale & Limestone				
9256	TD		Shale				

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Friday, February 22, 2013 4:49 PM
To: Mark Fairchild (MFairchild@concho.com)
Cc: Ezeanyim, Richard, EMNRD; Shapard, Craig, EMNRD
Subject: Disposal application from COG Operating LLC: Lakewood SWD #4 30-015-26270
Canyon Reef 7860 to 7967 perfed

Hello Mark,
Hope all is well?

I quickly looked this over and:

- a. Would you send "before Conversion" and "After Conversion" Wellbore diagrams with formation tops above and below the Canyon marked on them?
- b. Is there any fresh water out here and at what maximum depth?
- c. What formation will be the source of the disposal water?
- d. Are the waters in this Canyon Reef protectable (<10,000TDS Salt) ?
- e. Who is the owner of the surface of this well site?
- f. I didn't see an "Affirmative Statement" as required in the C-108.

All this should hopefully be easy to come up with,

Take Care,

William V. Jones, P.E.
505-476-3448W 505-476-3462F
Engineering Bureau, Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

**Disposal application from COG Operating LLC: Lakewood SWD #4 30-015-26270
Canyon Reef 7860 to 7967 perfed**

Questions by William V. Jones, EMNRD

- A. Before and After Well Bore Diagrams: These diagrams are attached with the email conveying these answers. ✓
- B. Is there any fresh water in the area and its depth?: No there is no fresh water nor are there any fresh water wells in the area. ✓
- C. What formation(s) will be the source of the disposed water?: The disposed water consists of Yeso formations of Paddock and Blinbry. ✓
- D. Are the waters in the Canyon Reef <10,000 TDS?: No, the Canyon Reef water is greater than 10,000 TDS. ✓
- E. Surface Owner: COG purchased the wellbore from the owners and obtained a surface use agreement for SWD with the purchase. ✓
- F. C-108 Affirmative Statement: Please instruct me where to find same. The C-108 is the same as we have always sent to the NMOCD. ✓

Jones, William V., EMNRD

From: Mark Fairchild <MFairchild@concho.com>
Sent: Tuesday, March 12, 2013 7:03 AM
To: Jones, William V., EMNRD
Subject: RE: Answers to Questions

Will do!

M.A. Fairchild
COG OPERATING LLC
Office: 432-686-3021
Cell: 432-230-7170



From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Monday, March 11, 2013 5:49 PM
To: Mark Fairchild
Subject: RE: Answers to Questions

Mark,
Thanks for this!

Sounds like Concho now own the surface at this wellsite?

The affirmative statement is item XII on the C-108 form. It is not a big deal, but is required. Usually the geologist should sign this statement of affirmation and I didn't see it in your application... If you would send I would be obliged.

Hope all is well.

Thank You

Will

From: Mark Fairchild [<mailto:MFairchild@concho.com>]
Sent: Monday, March 11, 2013 1:47 PM
To: Jones, William V., EMNRD
Subject: Answers to Questions

Will, sorry this drug out, here are the answers to your email of 2/25.

M.A. Fairchild
COG OPERATING LLC

Injection Permit Checklist: Received 2/19/13 First Email Date: 2/22 Final Reply Date: 3/12/13 Final Notice Date: 2/13/13

Issued Permit: Type: WFX/PMX/SWD, Number: 1406 Permit Date: 3/16/13 (Legacy Permit: ---)

Wells 1 Well Name(s): LAKEWOOD SWD #4 (W02 HOWE GL #1)

API Num: 30-015-26270 Spud Date: 1/5/1990 New/Old: N (UIC CI II Primacy March 7, 1982)

Footages 1980 FSL/660 FWL Lot --- Unit L Sec 6 Tsp 19S Rge 26E County EDDY

General Location or Pool Area: N. of Lake McMILLAN

Operator: COG OPERATING LLC Contact: Mark FAIRCHILD

OGRID: 229137 RULE 5.9 Compliance (Wells) 8756 (Finan Assur) OK IS 5.9 OK? OK

Well File Reviewed ✓ Current Status: DEA maintenance

Planned Work to Well: RE-ENTER, Run 5 1/2"

Diagrams: Before Conversion ✓ After Conversion ✓ Are Elogs in Imaging?: will run 5/8" RT (DESAO 2/13/13)

Well Details:	Sizes Hole.....Pipe	Setting Depths	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned <u>✓</u> or Existing <u>✓</u> Surface	<u>17 1/2 - 13 3/8</u>	<u>350'</u>	<u>---</u>	<u>520</u>	<u>CIRC</u>
Planned <u>✓</u> or Existing <u>✓</u> Interm	<u>12 1/4 - 8 5/8</u>	<u>1350</u>	<u>---</u>	<u>865 SX + 1"</u>	<u>CIRC</u>
Planned <u>✓</u> or Existing <u>---</u> LongSt	<u>7 7/8 - 5 1/2</u>	<u>8200</u>	<u>7000</u>	<u>1375 SX</u>	
Planned <u>---</u> or Existing <u>---</u> Liner					
Planned <u>---</u> or Existing <u>---</u> OpenHole					

Depths/Formations:	Depths, Ft.	Formation	Tops?
Above	<u>6253</u>	<u>WC</u>	<u>✓</u>
Above	<u>7305</u>	<u>CISCO</u>	<u>✓</u>
Proposed Interval TOP:	<u>7860</u>	<u>Canyon Ref</u>	
Proposed Interval BOTTOM:	<u>7967</u>	<u>Canyon Ref</u>	
Below	<u>7639</u>	<u>Canyon</u>	<u>✓</u>
Below	<u>8253</u>	<u>ST</u>	<u>✓</u>

Max. PSI 1572 OpenHole --- Perfs ✓
Tubing Size 2 7/8 Packer Depth ---

Capitan Reef? (if thru) --- Potash --- Noticed? --- WIPB? --- Noticed? --- Salado Top --- Bot --- Cliff House? ---

Fresh Water: MaxDepth: None FW Formation None Wells? None Analysis? --- Affirmative Statement ✓

Disposal Fluid: Formation Source(s) Packard/Blue On Lease --- Only from Operator ✓ or Commercial ---

Disposal Interval: Protectable Waters? No H/C Potential: Log --- /Mudlog --- /DST --- /Tested --- /Depleted --- Other ---

Notice: Newspaper Date 2/12/13 Mineral Owner --- Surface Owner COG SURFACER ACCOUNT N. Date 2/13/13

RULE 26.7(A) Identified Tracts? ✓ Affected Persons --- N. Date 2/13/13

AOR: Maps? ✓ Well List? ✓ Producing in Interval? No Formerly Produced in Interval? No

Penetrating.....No. Active Wells 0 Num Repairs? 0 on which well(s)? ---

Penetrating.....No. P&Aed Wells 2 Num Repairs? 0 on which well(s)? --- Diagrams? ---

Permit Conditions:

Issues:

Issues:

Issues: