

Last Notice 3/10

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



COG operating
ED OCD

2012 MAR

Alley #1

ADMINISTRATIVE APPLICATION CHECKLIST

30-615-23792

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,
 Will be provided under separate cover.
- [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

Sr. Operations Engineer
Title

1/22/2012
Date

MFairchild@Concho.com
e-mail Address

E-1-195-25E

7600'-8100'
1520 psc

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: **1-22-2012**

E-MAIL ADDRESS: **MFairchild@Conchoresources.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: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

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.

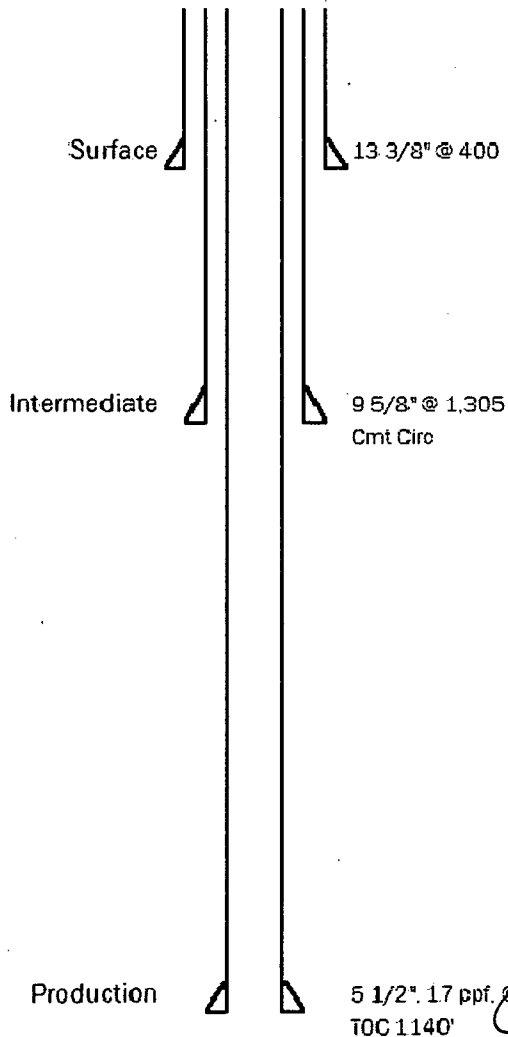
Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (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: **Alley No. 1**WELL LOCATION: **2080 FNL & 860 FWL**
FOOTAGE LOCATION**E**
UNIT LETTER**1**
SECTION**19S**
TOWNSHIP**25E**
RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: **17 1/2"** Casing Size: **13 3/8"**

Cemented with: **450 Class C** sx. or _____ ft³

Top of Cement: **Surface** Method Determined: **Visual Circ**

Intermediate Casing

Hole Size: **12 1/4"** Casing Size: **9 5/8"**

Cemented with: **950 sx, two stg.** or _____ ft³

Top of Cement: **Surface** Method Determined: **Visual Circ**

Production Casing

Hole Size: **8 3/4"** Casing Size: **5 1/2"**

Cemented with: **2000 sx CI H** sx. or _____ ft³

Top of Cement: **1140'** Method Determined: **Temp Sy**

Total Depth: **9,632'**Injection Interval**7,600** feet to **8,100**Selected Intervals by jet perforation
(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 7/8" Lining Material: Plastic Coating

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 ☒ No

If no, for what purpose was the well originally drilled? Oil and/or Gas production

2. Name of the Injection Formation: Canyon

3. Name of Field or Pool (if applicable): N/A

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. _____

Morrow, 9,000 to 9,036' Form C-103 dated 4-29-92 to show plugging attached

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

Underlying: Morrow at +/- 9,000'

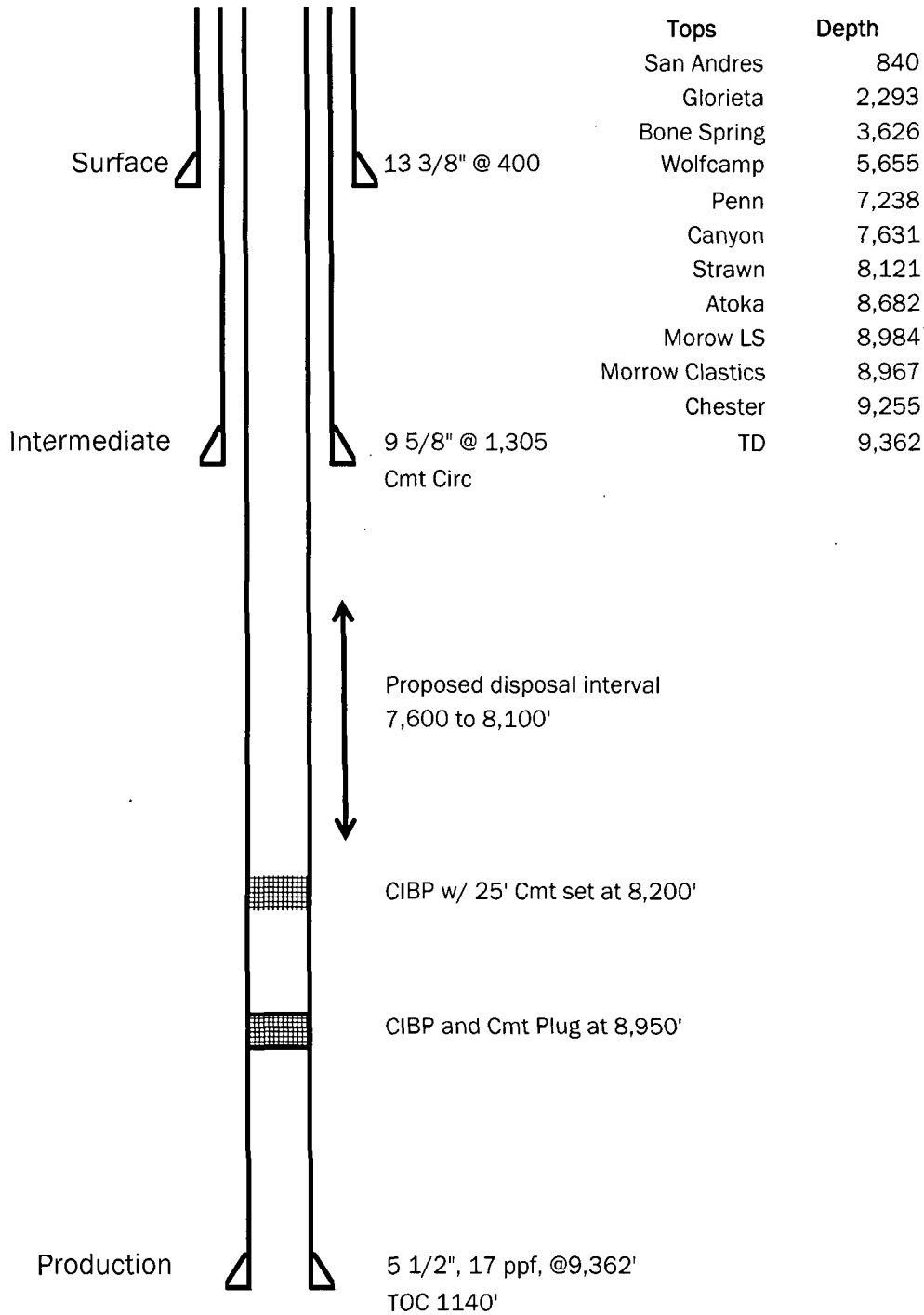
Overlying: Possible Yeso and Wolfcamp Intervals from approximately 2,600 to 6,400'.

Well: COG's Lakewood SWD #3

API: 30-015-23292

Elev: GL:3,463.5; RKB: 3,483.5

Location: E-01-19S-25E 2080 FNL 860 FWL



Tops

Depth

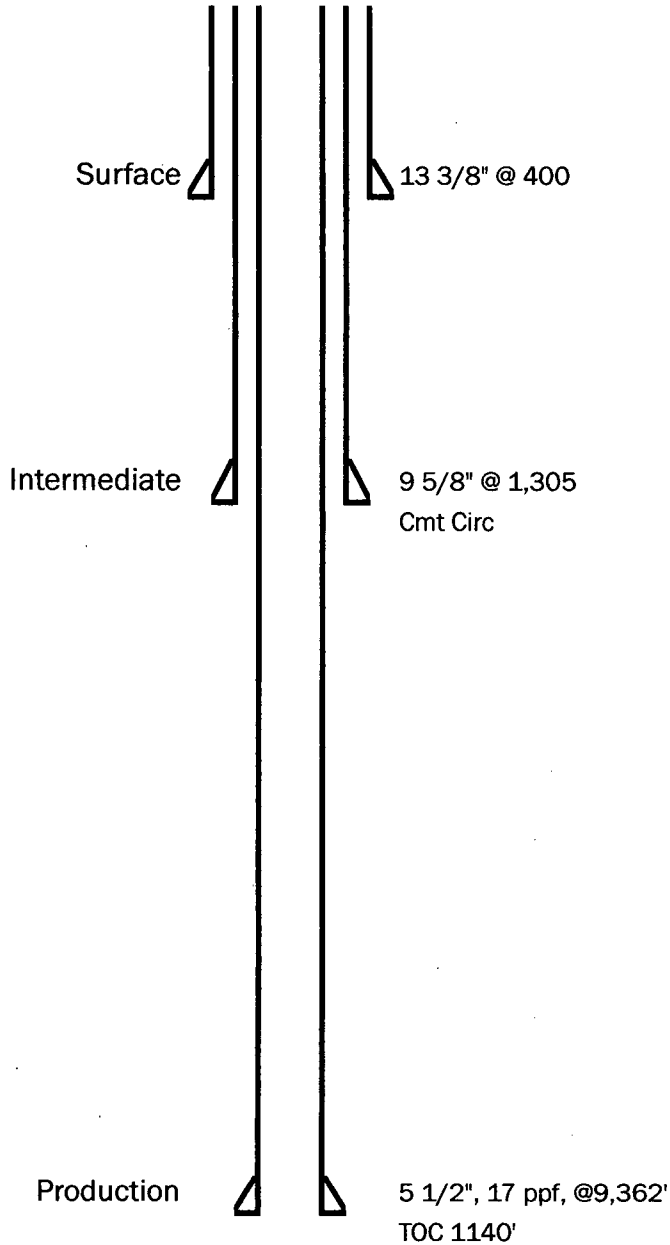
San Andres	840
Glorieta	2,293
Bone Spring	3,626
Wolfcamp	5,655
Penn	7,238
Canyon	7,631
Strawn	8,121
Atoka	8,682
Morrow LS	8,984
Morrow Clastics	8,967
Chester	9,255
TD	9,362

Well: BP Petroleum, Alley No.1

API: 30-015-23292

Elev: GL:3,463.5; RKB: 3,483.5

Location: E-01-19S-25E 2080 FNL 860 FWL



Tops	Depth
San Andres	840
Glorieta	2,293
Bone Spring	3,626
Wolfcamp	5,655
Penn	7,238
Canyon	7,631
Strawn	8,121
Atoka	8,682
Morow LS	8,984
Morrow Clastics	8,967
Chester	9,255
TD	9,362

NEW MEXICO OIL CONSERVATION COMMISSION
 LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
 Supersedes C-1
 Effective 1-1-61

All distances must be from the outer boundaries of the Section.

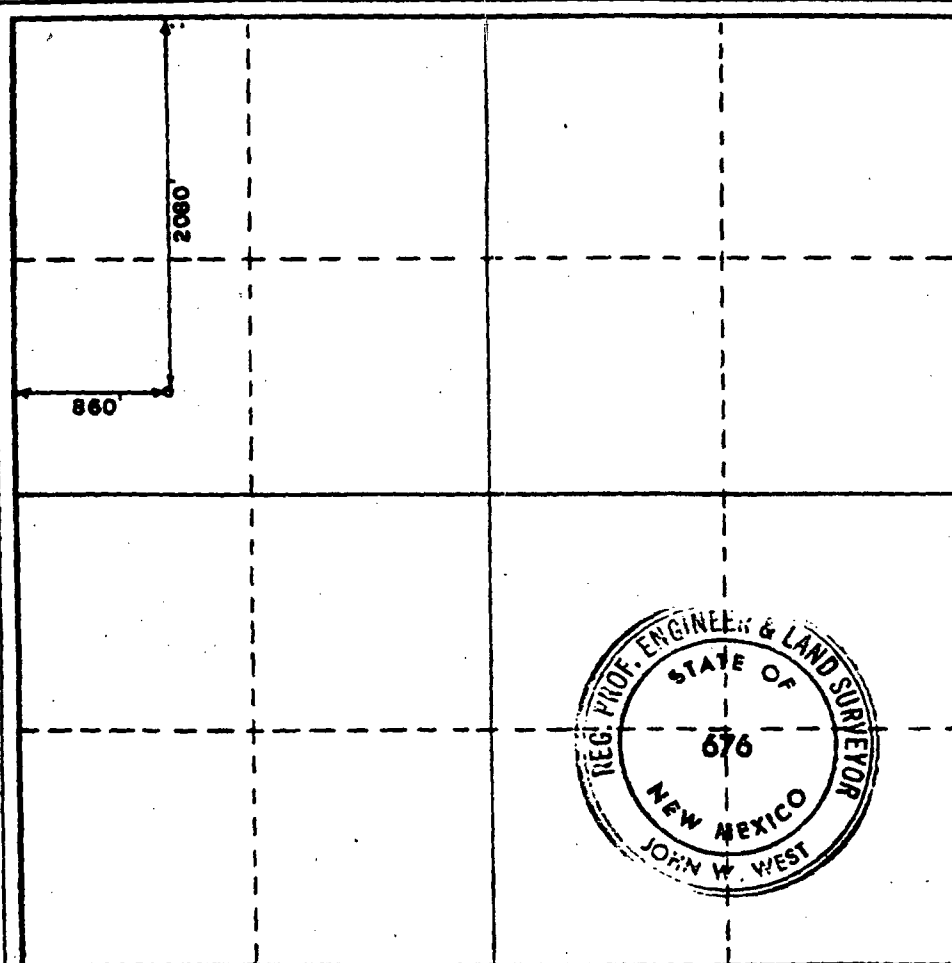
Operator Amoco Production Co.		Lease Alley Unit		Well No. 1
Unit Letter E	Section 1	Township 19 South	Range 25 East	County Eddy
Actual Footage Location of Well:				
2080 feet from the North line and		860 feet from the West line		
Ground Level Elev. 3463.5	Producing Formation Boyd Morrow	Pool Morrow	Dedicated Acreage: 320 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
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).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will 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 interests, has been approved by the Commission.



CERTIFICATION

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

Nita S. White

Name

Nita S. White

Position

Asst. Admin. Analyst

Company

Amoco Production Company

Date

May 1, 1992

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

4-1-1980

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. **JOHN W. WEST 676**
PATRICK A. ROMERO 6063
Ronald J. Eldon 3239

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

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

RECEIVED

MAY - 8 1992

O. C. D.

WELL API NO.
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 Alley Unit
8. Well No. 1
9. Pool name or Wildcat Boyd 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.)	
1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	
2. Name of Operator Amoco Production Company	
3. Address of Operator P.O. Box 3092	
4. Well Location Unit Letter <u>E</u> : <u>2080</u> Feet From The <u>North</u> Line and <u>860</u> Feet From The <u>West</u> Line Section <u>1</u> Township <u>19-S</u> Range <u>25-E</u> NMPM <u>Eddy</u> County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3463.5 GL	

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

MI. RUSU. POH x RxPmpxTbg. Load hole x 9.5# mud brine. RIH x CIBP. SA 8950'. Cap x 35' cmt. ~~Spot 100' cmt plug 8576'-8676' in Atoka (we would prefer not to plug this zone because there is no production here). Spot 100' cmt plug 7575'-7675' in Canyon. Spot 100' cmt plug 5598'-5698' in Wolfcamp. Spot 100' cmt plug 3575'-3675' in Bone Springs (we would prefer not to plug this zone because there is no production). Spot 100' cmt plug 2242'-2342' in Glorieta. Spot 100' cmt plug 1255'-1355' in Shoe. Spot 100' cmt plug 350'-450' in Shoe.~~ Cap x 10 sxs cmt at surface.

Tag

inside + outside 5 1/2 casing
Tag

Notify N.M.O.C.C. in sufficient time to witness

Plugging

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

SIGNATURE Nita S. White TITLE Asst. Admin. Analyst DATE 4-29-92
TYPE OR PRINT NAME Nita S. White TELEPHONE NO. (713) 596-7639

(This space for State Use)

APPROVED BY [Signature] TITLE Asst. Admin. Analyst DATE 5/6/92

CONDITIONS OF APPROVAL, IF ANY:

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

RECEIVED

APR 19 1993

Form C-103
Revised 1-1-89

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

WELL NO. 30-015-23292

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

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.)

7. Lease Name or Unit Agreement Name

Alley Com Gas Unit

1. Type of Well

OIL
WELL ☐

GAS
WELL ☒

OTHER

2. Name of Operator

Amoco Production Company

8. Well No.

1

3. Address of operator

P.O. Box 3092, Houston, Texas 77253-3092

9. Pool name or Wildcat

Boyd Morrow

4. Well Location

Unit Letter E : 2080 Feet From The North Line and 860 Feet From The West Line

Section 1 Township 19-S Range 25-E NMPM Eddy, NM County

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

3463.5 GL

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 ABANDONMENT ☒

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

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.

MIRUSU 4-1-93 X POH X TBG X PKR X CIBP SA 8950' X TST X 750 PSI X OK X CAP X 35' CMT (8915') X DISP HOLE X 9.5# GL BW MUD X PMP 20 SX CMT 7086-7296 X 20 SX CMT 5503-5713 X 20 SX CMT 3476-3686 X 25 SX CMT 1120-1343 X PER 390' X CIRC CMT. CIRC CMT FROM 390' TO SURF BEHIND 5-1/2" X IN 5-1/2" CSG X CUT OFF WELL HEAD X INSTALL PXA MARKER X FILL IN CELLAR X WELL PLUGGED X ABANDONED. RDMOSU 4-7-93.

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

SIGNATURE Devina M. Prince TITLE STAFF ASSISTANT DATE 04-13-93

TYPE OR PRINT NAME DEVINA M. PRINCE TELEPHONE NO. (713) 596-7686

(This space for State Use)

APPROVED BY [Signature] TITLE CLERK DATE JUN 16 1993

CONDITIONS OF APPROVAL, IF ANY:

Post ID 2
4-30-93
PMT

Monday, February 20, 2012

Lakewood SWD #3 Re entry procedure.

API: 30-015-23292

Location: E-01-19S-25E 2080 FNL 860 FWL

1. MIRU WSU.
2. Set up closed loop circulation system.
3. Remove dry hole marker and weld on flange type wellhead.
4. NU Dbl Hdy BOP, 2000 psig WP, and test to 3000 psig.
5. PU Bit, Drill Collars and work string.
6. GIH and drill out plugs as follow:
 - a. 350-450
 - b. 1255-1355
 - c. 3,575-3,625
 - d. 5,605-5,705
 - e. 7,188-7,288
7. Leave in place CIBP and cement plug at ~~8,950'~~ ^{8300'}
8. Run GR/Neu/CCL and make formation tie.
9. Perforate Canyon, at 2 jspf as instructed.
10. Perform acid ball job to insure all perfs open.
11. Swab test to evaluate.

[illegible]

Lakewood SWD #3

Wells within area of review that penetrate proposed disposal interval:

None

NONE

*a bunch of
new wells
are proposed
to ~ 2800 TVD
(BUREAU)*

Plugged Wells within area of review:

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: Plug Date:2/8/1994 1

Elevation GL: Depth TVD: Plugging Detail: (Attached)

TD 7 9/86

(OUT of AOR)

API #: 3001500109 Well Name: BH MATLOCK Property Number.: 001

Location: N-1-19.0S-25E, 660 FSL, 1980 FWL Lat:32.6845181067 Long:-104.440536422

Operator Name: PAN AMERICAN PETROLEUM CORP County: Eddy

Land Type: Unknown Well Type: Oil Spud Date:1/1/1900 1 Plug Date:1/1/1900 1

Elevation GL: 0 Depth TVD: 0 Plugging Detail: Not Available

(OUT of AOR TD ?)

API #: 3001500107 Well Name: EDDY ST AC Property Number.: 001

Location: L-36-18.0S-25E, 1980 FSL, 660 FWL Lat:32.7027670707 Long:-104.444846331

Operator Name: GULF OIL CORP County: Eddy

Land Type: State Well Type: Oil Spud Date:1/1/1900 1 Plug Date:1/1/1900 1

Elevation GL: 0 Depth TVD: 0 Plugging Detail: Not Available

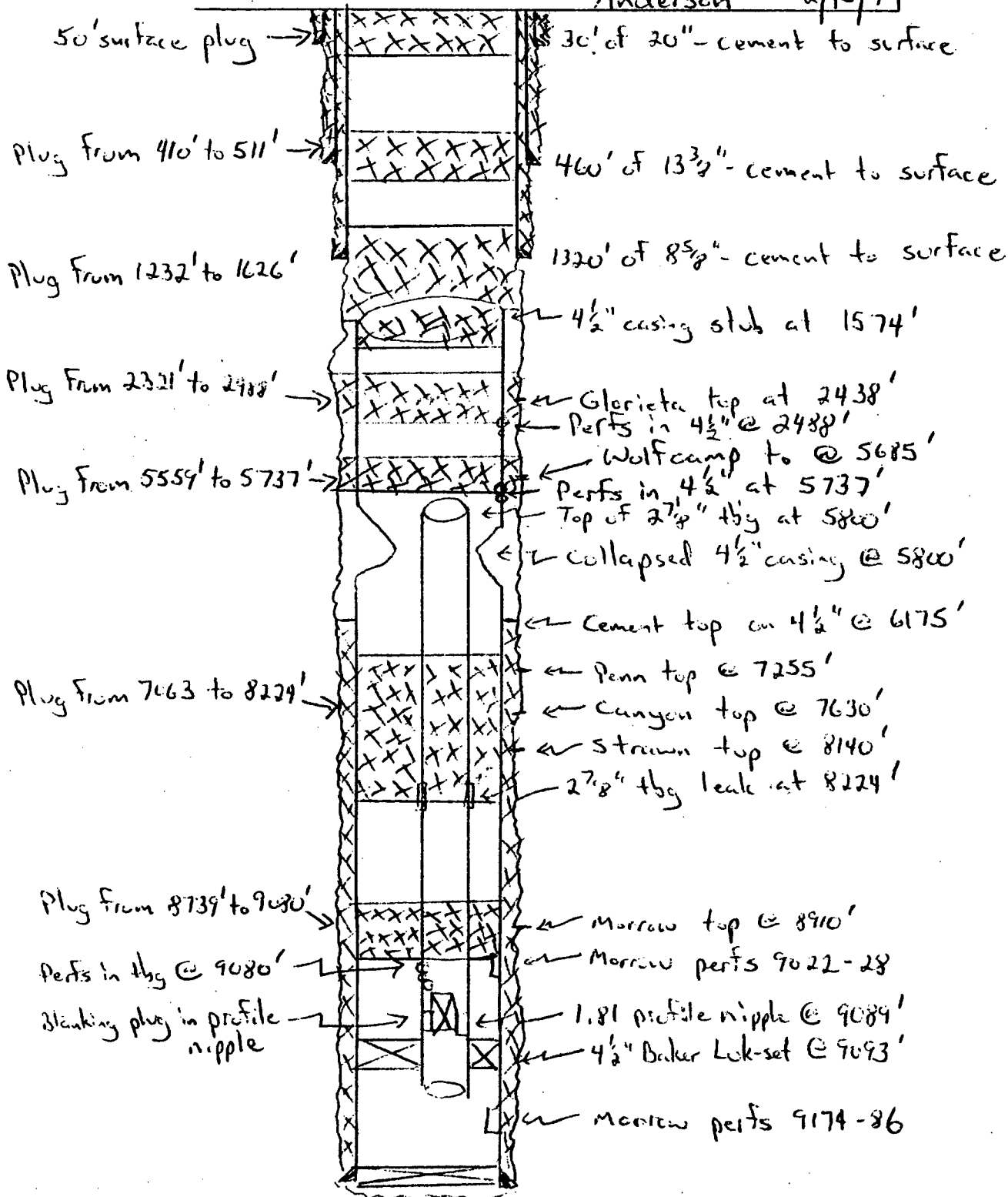
(OUT of AOR)

TD ?

COG Operating, LLC proposed SWD reentry to dispose into the Canyon from 7600 to 8100 feet											
All wells below within 1/2 mile of the Alley #1 are proposed wells to the Blinebry formation at approx 2800 feet TVD.											
3001523292	ALLEY 001	AMOCO PRODUCTION CO	2080	N	860	W	E	1	19.0S	25E	30-015-23292
API	WELL_NAME	OPERATOR	FTG_NS	NS_CD	FTG_EW	EW_CD	OCD_UL	SECTION	TOWNSHIP	RANGE	Dist
3001539613	LOUISIANA 1 FEE 001	CIMAREX ENERGY CO. OF COLORADO	2310	S	1650	W	K	1	19.0S	25E	1,186
3001539643	LOUISIANA 1 FEE 002	CIMAREX ENERGY CO. OF COLORADO	2310	S	2310	E	J	1	19.0S	25E	2,288
3001539614	LOUISIANA 1 FEE 004	CIMAREX ENERGY CO. OF COLORADO	1650	S	2310	W	K	1	19.0S	25E	2,119
3001539644	LOUISIANA 1 FEE 005	CIMAREX ENERGY CO. OF COLORADO	990	S	1650	W	N	1	19.0S	25E	2,342
3001539608	MONTANA 1 FEE 001	CIMAREX ENERGY CO. OF COLORADO	2310	S	330	W	L	1	19.0S	25E	1,032
3001539962	MONTANA 1 FEE 002	CIMAREX ENERGY CO. OF COLORADO	1650	S	990	W	L	1	19.0S	25E	1,550
3001539616	MONTANA 1 FEE 003	CIMAREX ENERGY CO. OF COLORADO	990	S	330	W	M	1	19.0S	25E	2,268
3001539781	PINTO 36 STATE COM 001H	COG OPERATING LLC	150	S	380	W	M	36	18.0S	25E	2,281
3001539969	PINTO 36 STATE COM 002H	COG OPERATING LLC	150	S	1700	W	N	36	18.0S	25E	2,383
3001539970	PINTO 36 STATE COM 005H	COG OPERATING LLC	150	S	1040	W	M	36	18.0S	25E	2,237
3001539971	PINTO 36 STATE COM 006H	COG OPERATING LLC	150	S	2230	W	N	36	18.0S	25E	2,617

Anadarko

Anderson 2/15/94



COG SENM SWD Well Questionnaires

Date: 1/22/12

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

Note: Answers to questions in this color

What will be the well name?

Alley No.1, after completion as SWD C-103 will
be filed to change name to Lakewood SWD #3

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

Logs will be run as follows: porosity and resistivity

LOGS
already Run

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

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, 7,600 to 8,100', this interval anticipated to be open hole.

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?

1520 psig

Will water be trucked or piped to the well?

Piped

What wells will dispose into it?

Various wells owned exclusively by COG on our SWD water line system

Any non-COG wells?

No outside operated water will be disposed of.

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?

No

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

No

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

Currently Active Points of Diversion

(with Ownership Information)

No PODs found.

Basin/County Search:

County: Eddy

PLSS Search:

Q64: SE

Q16: SW

Q4: NW

Section(s): 1

Township: 19S

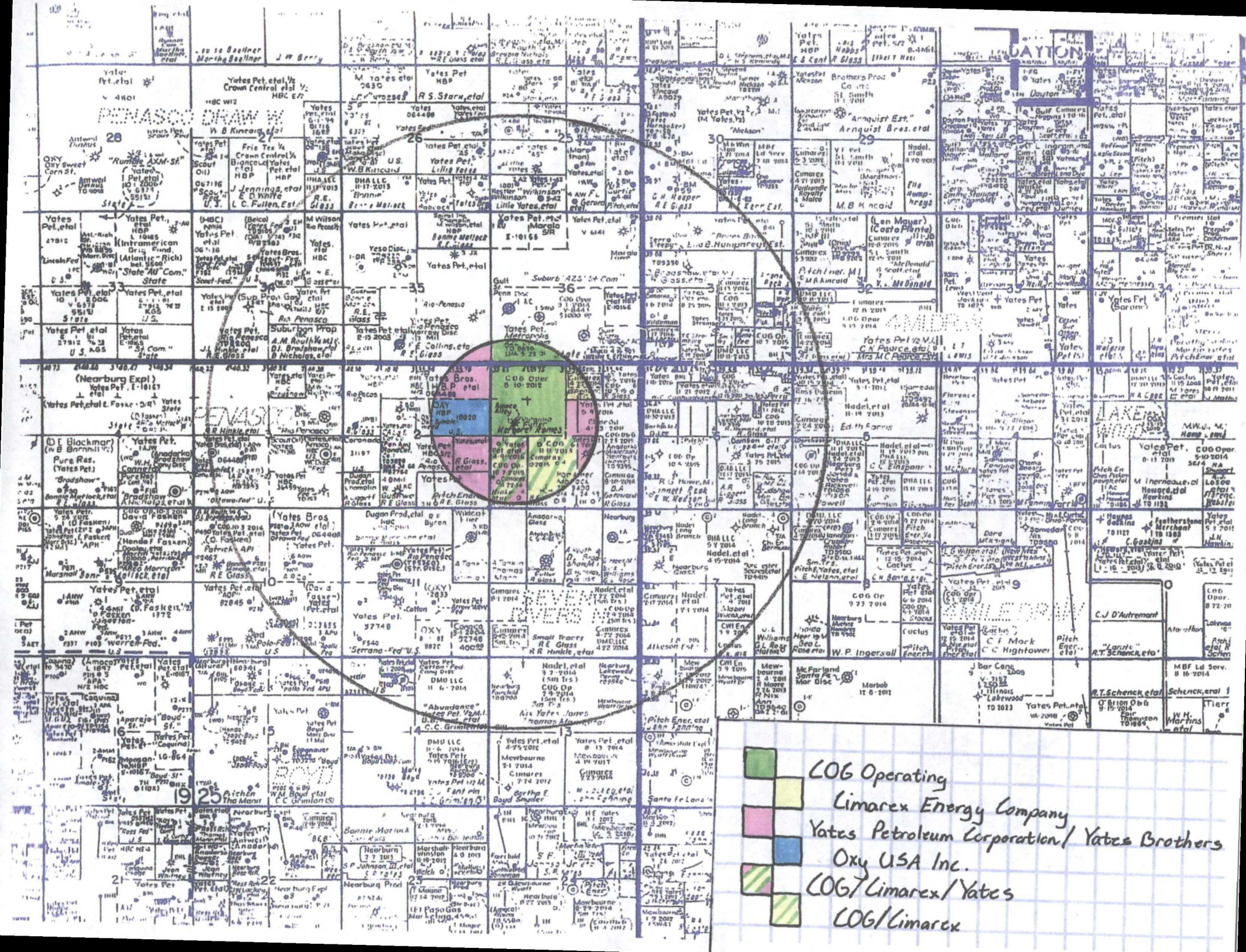
Range: 25E

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

2/17/12 9:57 AM

Page 1 of 1

CURRENTLY ACTIVE POINTS OF DIVERSION



Notice

February 28th, 2012

New Mexico State Land Office
310 Old Santa Fe Trail
Santa Fe, NM 87504

COG Operating LLC is applying (see attached application) to re-enter the Alley #1 well and convert to the Lakewood SWD #3 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 #3

Proposed Disposal Zone: Canyon (from 7,600' to 8,100')

Location: 2080' FNL & 860' FWL Sec 1, T19S, R35E

Eddy County, NM

Approximate Location: 5-6 miles Northwest of Lakewood, NM

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
C.O.

Mark Fairchild
(432) 686-3021

7011 0470 0001 5492 9608

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Santa Fe, NM 87504	

PS Form 3800, August 2006

Notice

February 28th, 2012

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

COG Operating LLC is applying (see attached application) to re-enter the Alley #1 well and convert to the Lakewood SWD #3 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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Mark Fairchild
(432) 686-3021

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Total Postage & Fees	\$ 6.80

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Oxy USA Inc.
Street, Apt. No.
or PO Box No. P.O. Box 50250
City, State, ZIP+4
Midland, TX 79710

PS Form 3800, August 2006 See Reverse for Instructions

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Notice

February 28th, 2012

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 Alley #1 well and convert to the Lakewood SWD #3 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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Mark Fairchild

Mark Fairchild
(432) 686-3021

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Return Receipt Fee (Endorsement Required)	\$2.35
Restricted Delivery Fee (Endorsement Required)	\$0.00
Total Postage & Fees	\$ 6.80

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City, State, ZIP+4
Artesia, NM 88210

2012 0470 0001 5492 9622

Notice

February 28th, 2012

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

COG Operating LLC is applying (see attached application) to re-enter the Alley #1 well and convert to the Lakewood SWD #3 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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(432) 686-3021

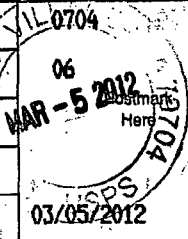
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Total Postage & Fees	\$	\$6.80



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or PO Box No. 1700 Lincoln St. Suite 1800
City, State, ZIP+4 Denver, CO 80203

PS Form 3800, August 2006

See Reverse for Instructions

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Notice

February 28th, 2012

Bureau of Land Management
620 E. Greene St.
Carlsbad, NM 88220

COG Operating LLC is applying (see attached application) to re-enter the Alley #1 well and convert to the Lakewood SWD #3 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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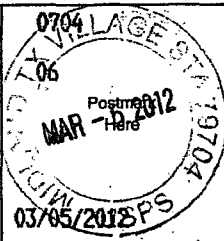
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Restricted Delivery Fee (Endorsement Required)		\$0.00
Total Postage & Fees	\$	\$6.80



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or PO Box No. 620 E. Greene St.
City, State, ZIP+4 Carlsbad, NM 88220

PS Form 3800, August 2006 See Reverse for Instructions

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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:

March 1 2012

That the cost of publication is **\$46.09** and that
payment thereof has been made and will be
assessed as court costs.

Kathy McCarroll

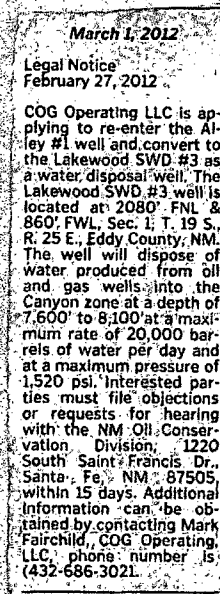
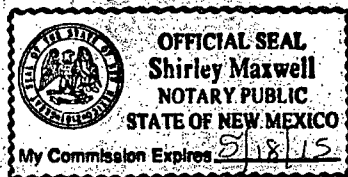
Subscribed and sworn to before me this

2nd day of March, 2012

Shirley Maxwell

My commission Expires on May 18, 2015

Notary Public



CMD :
OG5SECT

ONGARD
INQUIRE LAND BY SECTION

03/09/12 10:03:38
OGOWVJ -TPIV
PAGE NO: 1

Sec : 01 Twp : 19S Rng : 25E Section Type : NORMAL

4 39.65 Fee owned	3 39.75 Fee owned	2 39.85 Fee owned A A	1 39.95 Fee owned A A
E 40.00 Fee owned A	F 40.00 Fee owned	G 40.00 Fee owned	H 40.00 Fee owned

PF01 HELP
PF07 BKWD

PF02
PF08 FWD

PF03 EXIT
PF09 PRINT

PF04 GoTo
PF10 SDIV

PF05
PF11

PF06
PF12

*Proposed
SWS well*

CMD :
OG5SECT

ONGARD
INQUIRE LAND BY SECTION

03/09/12 10:03:58
OGOWVJ -TPIV
PAGE NO: 2

Sec : 01 Twp : 19S Rng : 25E Section Type : NORMAL

L 40.00 Fee owned A A	K 40.00 Fee owned A A	J 40.00 Fee owned A A	I 40.00 Fee owned
M 40.00 Fee owned A A	N 40.00 Fee owned A A A	O 40.00 Fee owned A C A	P 40.00 Fee owned

PF01 HELP
PF07 BKWD

PF02
PF08 FWD

PF03 EXIT
PF09 PRINT

PF04 GoTo
PF10 SDIV

PF05
PF11

PF06
PF12

CMD :
OG5SEC2

ONGARD
VIEW LAND BY ULSTR

03/09/12 10:04:33
OGOWVJ -TPIV
PAGE NO: 1

Sec : 1 Twp : 19S Rng : 25E Cnty1 : Eddy
Cnty2 : Cnty3 :

U Lot/ Qtr	SRF SUB	ACTIVE	Bene	REMARKS
L Trct Qtr	ACREAGE	OWNER	LEASE #	(may show restrictions codes)

A 1	39.95	FD FE		
B 2	39.85	FD FE		
C 3	39.75	FD FE		
D 4	39.65	FD FE		
E SW4NW4	40.00	FE FE		
F SE4NW4	40.00	FE FE		
G SW4NE4	40.00	FE FE		
H SE4NE4	40.00	FE FE		
I NE4SE4	40.00	FE FE		
J NW4SE4	40.00	FE FE		
K NE4SW4	40.00	FE FE		

M0002: This is the first page

PF01 HELP	PF02 PREV	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07 BKWD	PF08 FWD	PF09 PRINT	PF10 SDIV	PF11	PF12

CMD :
OG5SEC2

ONGARD
VIEW LAND BY ULSTR

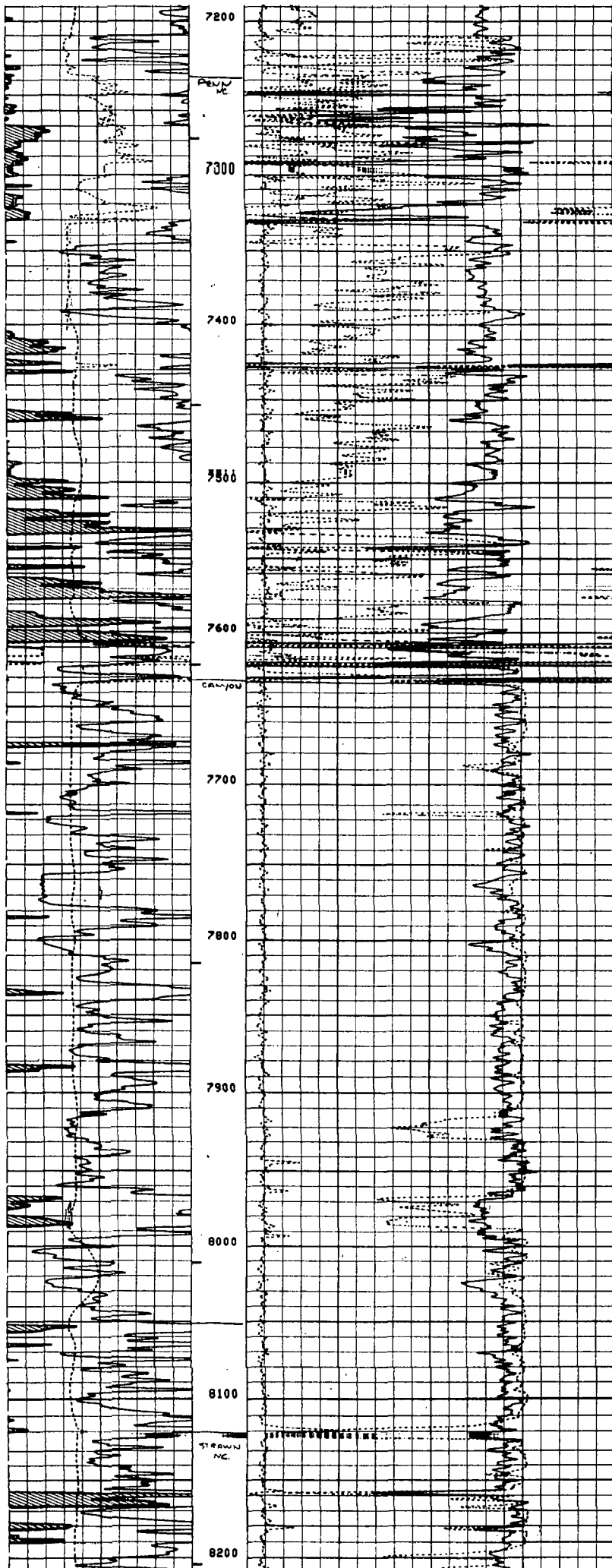
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PAGE NO: 2

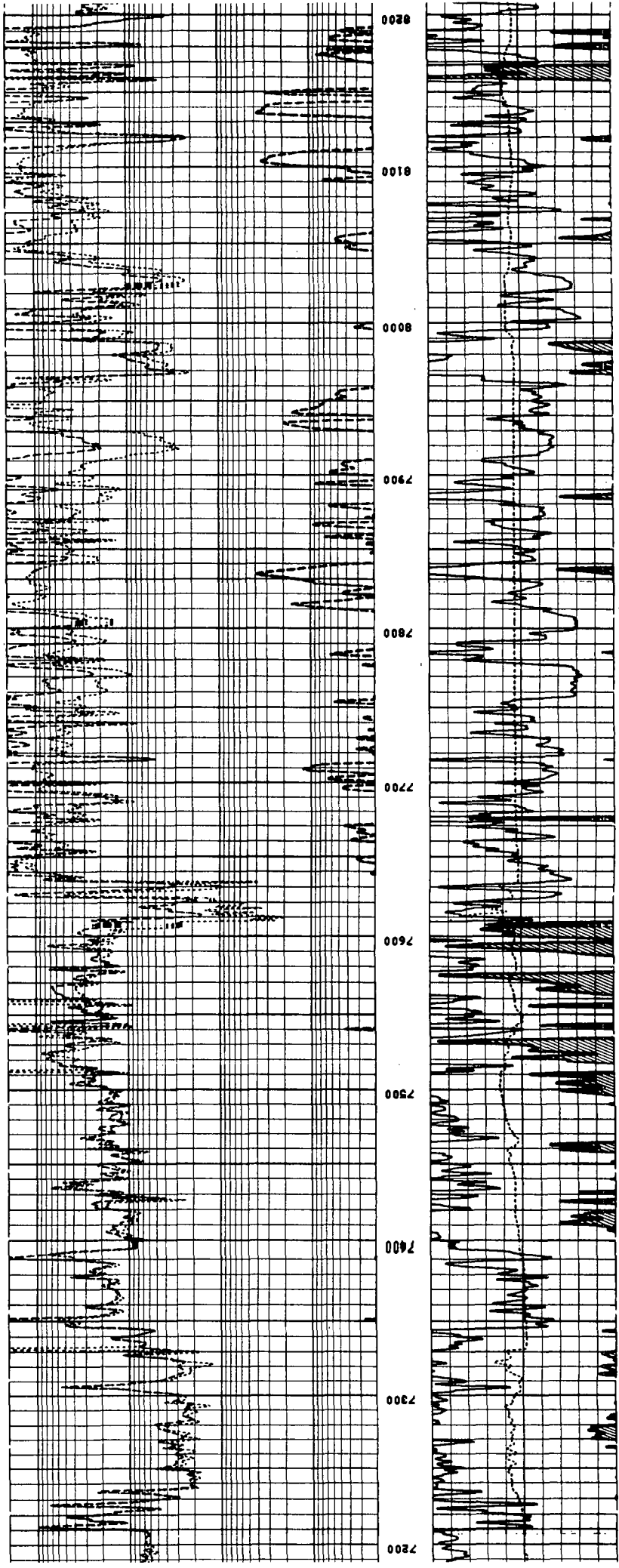
Sec : 1 Twp : 19S Rng : 25E Cnty1 : Eddy
Cnty2 : Cnty3 :

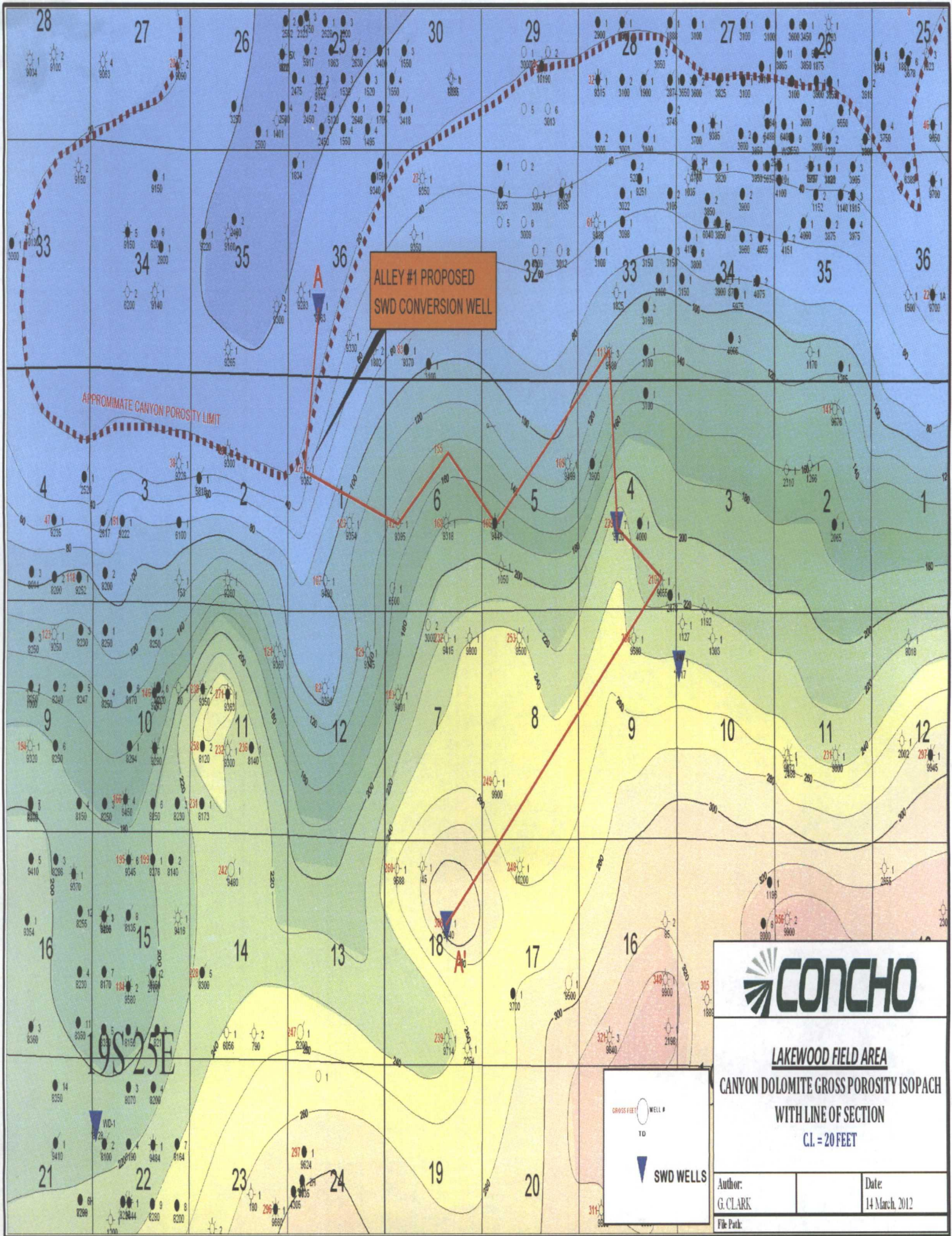
U Lot/ Qtr	SRF SUB	ACTIVE	Bene	REMARKS
L Trct Qtr	ACREAGE	OWNER	LEASE #	(may show restrictions codes)
L	NW4SW4	40.00	FE FE	
M	SW4SW4	40.00	FE FE	
N	SE4SW4	40.00	FE FE	
O	SW4SE4	40.00	FE FE	
P	SE4SE4	40.00	FE FE	

M0001: This is the last page

PF01 HELP	PF02 PREV	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07 BKWD	PF08 FWD	PF09 PRINT	PF10 SDIV	PF11	PF12

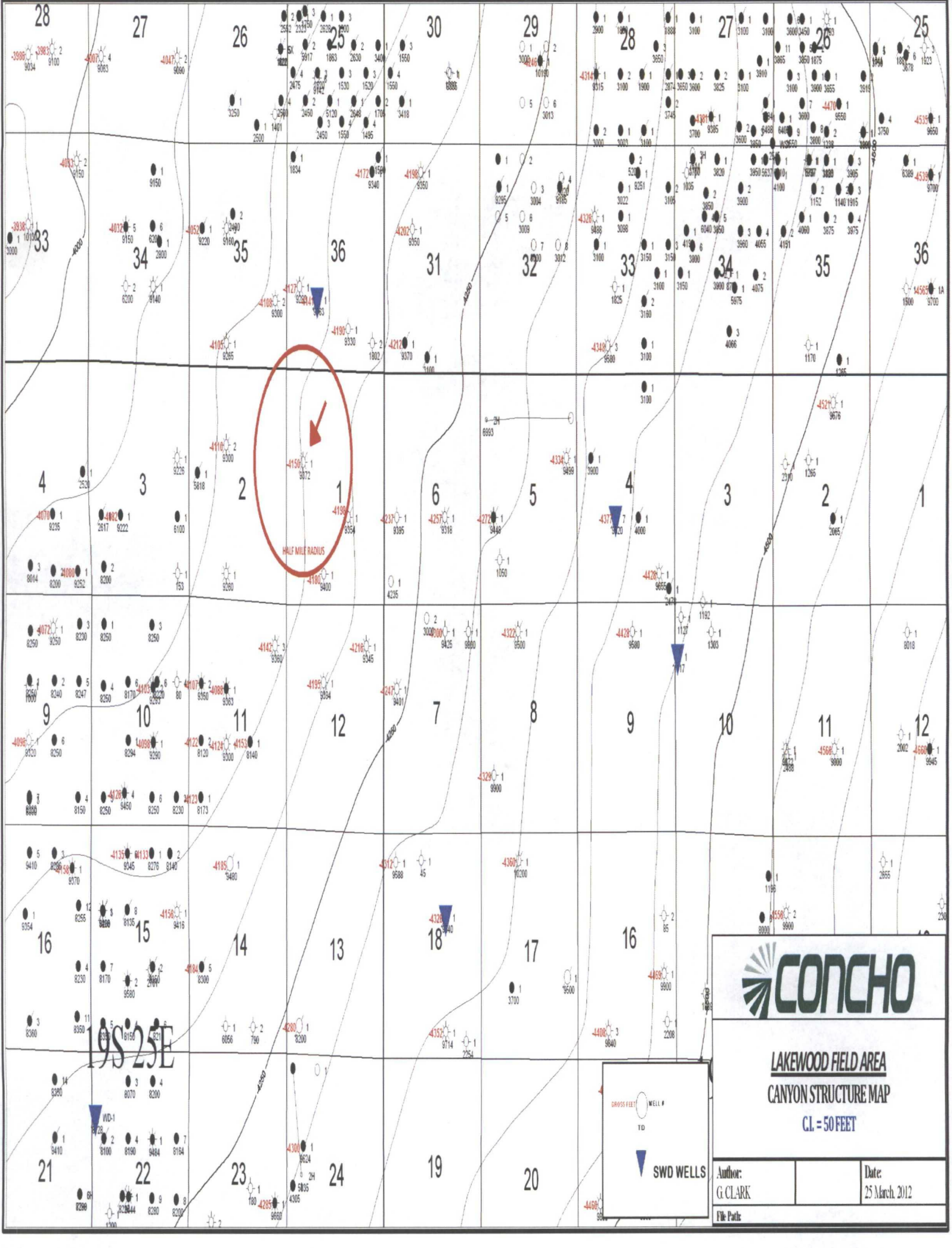




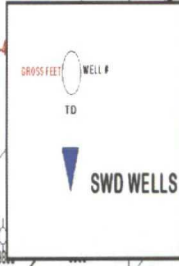


LAKWOOD FIELD AREA
CANYON DOLOMITE GROSS POROSITY ISOPACH
WITH LINE OF SECTION
C.I. = 20 FEET

Author:	G. CLARK	Date:	14 March, 2012
File Path:			



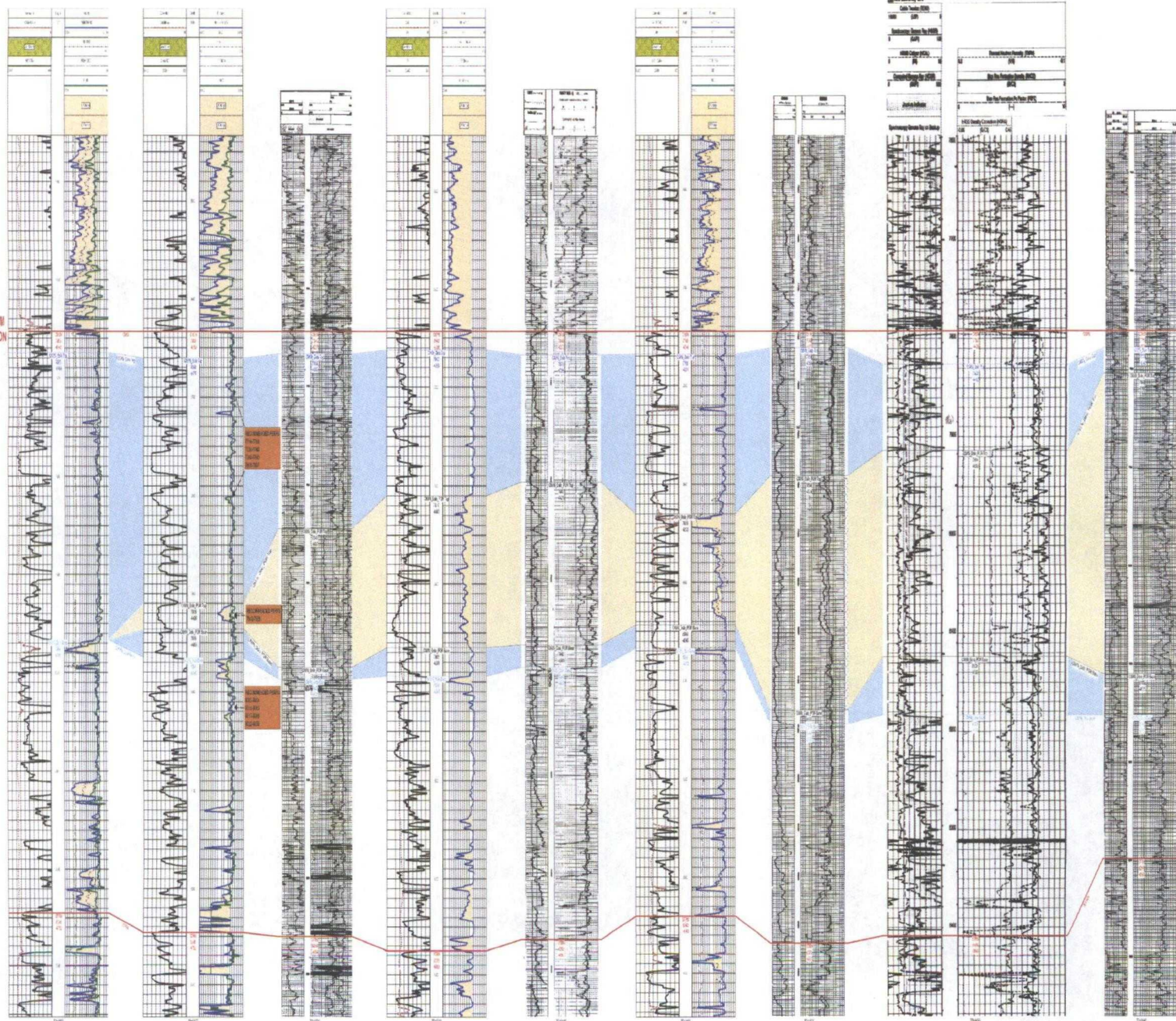
LAKWOOD FIELD AREA
CANYON STRUCTURE MAP
CL = 50 FEET



Author: G. CLARK	Date: 25 March 2012
File Path:	

A

A'

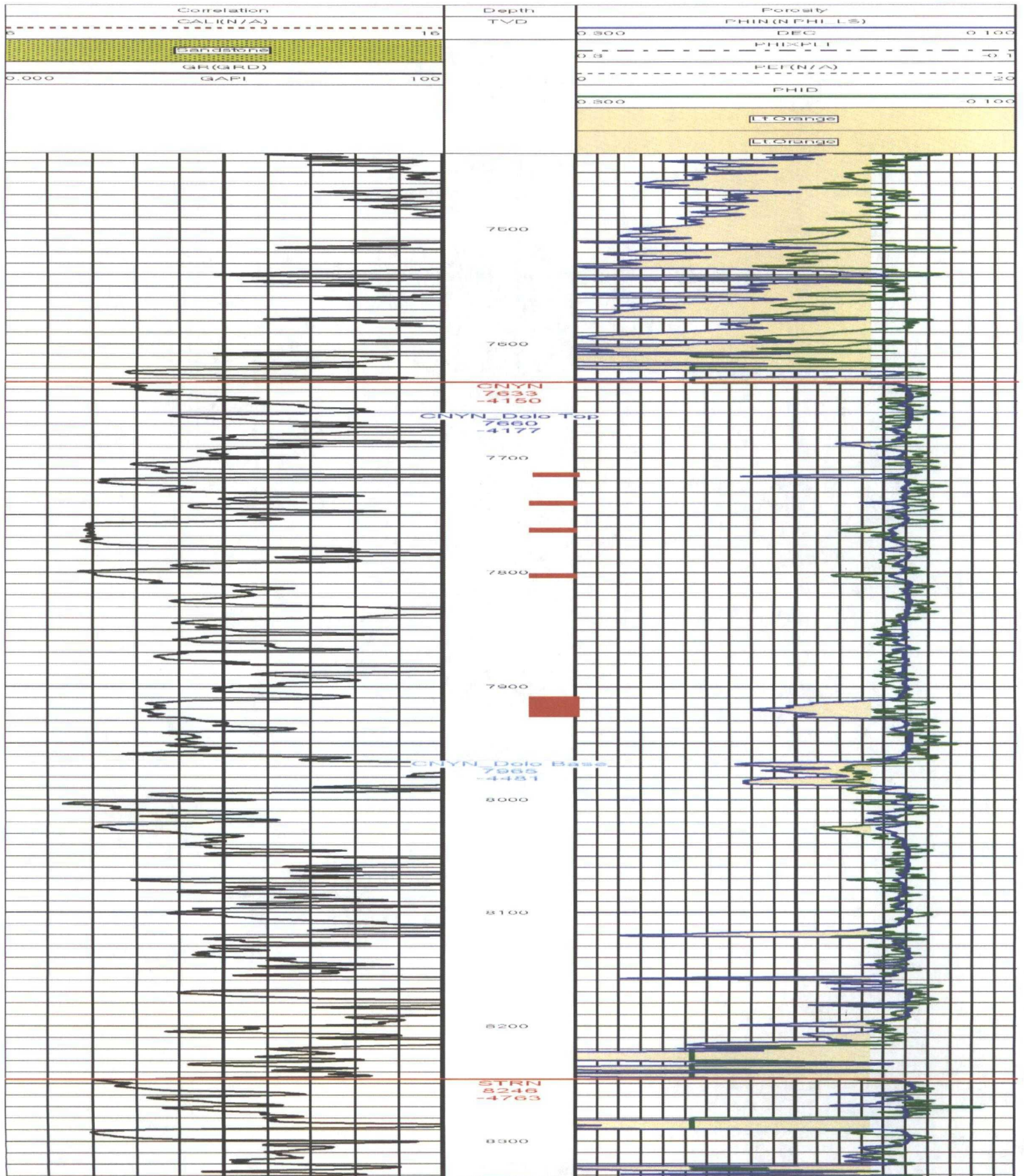
DATUM
CANYON

Lakewood Field Area
Eddy Co., NM
A - A'
Stratigraphic X-Section
(Alley #1)

Author: G. Clark	Vertical Scale: 1" = 40'	Date: 26 March 2012
---------------------	-----------------------------	------------------------

File Path: GC_YesshelfTrendGC_SWD_LAKWOOD_ALLEY_
XSEC_45MOCD.rvt

300152329200
 BP AMERICA PRODUCTION COMPANY
 ALLEY 1
 2050 FNL/860 FWL
 TWP: 19 S - Range: 25 E - Sec. 1



TD=9372

Lakewood SWD - All Wells Within A Two Mile Radius of the Alley #1 Well (BP)

Well ID	Well Name	Well Number	Operator	TD	Status	Prod Zone	Location
300150010600	WILKINSON	1	RESLER & SHELTON	1401	D&A		TWP: 18 S - Range: 25 E - Sec. 26
300150010700	EDDY-STATE AC	1	GULF OIL CORP	9283	ABD-GW		TWP: 18 S - Range: 25 E - Sec. 36
300150010800	EDDY-STATE AC	2		1802	D&A		TWP: 18 S - Range: 25 E - Sec. 36
300150010900	BH MATLOCK	1	PAN AMERICAN	9400	D&A		TWP: 19 S - Range: 25 E - Sec. 1
300150011000	CA LAND & CATTLE CO	1	YATES PETROLEUM CORPORATION	5818	ABD-OW		TWP: 19 S - Range: 25 E - Sec. 2
300150011100	FEDERAL AK	1	YATES PETROLEUM CORPORATION	6100	OIL	WFMP	TWP: 19 S - Range: 25 E - Sec. 3
300150015500	SCOUT	1	YATES PETROLEUM CORPORATION	2800	OIL	PDCK	TWP: 18 S - Range: 25 E - Sec. 34
300150593800	YATES-FEDERAL	1	YATES PETROLEUM CORPORATION	2323	ABD-OW		TWP: 18 S - Range: 25 E - Sec. 25
300151016400	JOHN YATES	1	YATES PETROLEUM CORP	153	D&A		TWP: 19 S - Range: 25 E - Sec. 3
300151056100	KINCAID	1	MONSANTO CO ETAL	9330	D&A		TWP: 18 S - Range: 25 E - Sec. 36
300151074000	FEE AS	1	YATES PETROLEUM CORPORATION	1863	OIL	GBSA	TWP: 18 S - Range: 25 E - Sec. 25
300151080000	GERARD AW	1	YATES PETROLEUM CORPORATION	2648	ABD-OW		TWP: 18 S - Range: 25 E - Sec. 25
300151082800	STATE AU	1	YATES PETROLEUM CORPORATION	1834	ABD-OW		TWP: 18 S - Range: 25 E - Sec. 36
300151088600	GERARD AW	2	YATES PETROLEUM CORPORATION	2630	ABD-OW		TWP: 18 S - Range: 25 E - Sec. 25
300151089000	AY-FEDERAL	1	YATES PETROLEUM CORPORATION	2628	OIL	GBSA	TWP: 18 S - Range: 25 E - Sec. 25
300152000700	WILKINSON AZ	1	YATES PETROLEUM CORPORATION	5120	ABD-OW		TWP: 18 S - Range: 25 E - Sec. 25
300152001600	YATES FEE AS	2	YATES PETROLEUM CORPORATION	5917	ABD-OW		TWP: 18 S - Range: 25 E - Sec. 25
300152007000	NIX & BH CURTIS	1	YATES PETROLEUM CORPORATION	3400	OIL	BLBR	TWP: 18 S - Range: 25 E - Sec. 25
300152011300	NIX-CURTIS BH	2	YATES PETROLEUM CORPORATION	1705	OIL	GBSA	TWP: 18 S - Range: 25 E - Sec. 25
300152013400	LOWE-STATE BK	1	YATES PETROLEUM CORPORATION	1590	ABD-OW		TWP: 18 S - Range: 25 E - Sec. 36
300152013700	WILKINSON AZ	2	YATES PETROLEUM CORPORATION	2450	ABD-OW		TWP: 18 S - Range: 25 E - Sec. 25
300152014000	NICKSON BM	1	YATES PETROLEUM CORPORATION	3418	ABD-OW		TWP: 18 S - Range: 26 E - Sec. 30
300152033400	ARCO-FEDERAL	1	YATES PETROLEUM CORPORATION	9290	ABDO&G		TWP: 19 S - Range: 25 E - Sec. 10
300152043800	ARCO-FEDERAL 3	1	FASKEN DAVID	9222	OIL	PSLV	TWP: 19 S - Range: 25 E - Sec. 3
300152069200	ARCO-FEDERAL 10	2	YATES PETROLEUM CORPORATION	9293	O&G	PSLV	TWP: 19 S - Range: 25 E - Sec. 10
300152100200	GUSHWA DR	1	YATES PETROLEUM CORPORATION	9220	ABD-OW		TWP: 18 S - Range: 25 E - Sec. 35
300152103800	YATES-FEDERAL	1	YATES PETROLEUM CORPORATION	9150	OIL	PDCK	TWP: 18 S - Range: 25 E - Sec. 34
300152106500	YATES FEDERAL	2	YATES PETROLEUM CORPORATION	2552	ABD-OW		TWP: 18 S - Range: 25 E - Sec. 26
300152120400	B H NIX-CURTIS	3	YATES PETROLEUM CORPORATION	1520	OIL	GBSA	TWP: 18 S - Range: 25 E - Sec. 25
300152140600	YATES AS FEE	3	YATES PETROLEUM CORPORATION	1620	OIL	GBSA	TWP: 18 S - Range: 25 E - Sec. 25
300152141000	GERARD AW	3	YATES PETROLEUM CORPORATION	1530	OIL	GBSA	TWP: 18 S - Range: 25 E - Sec. 25
300152141100	WILKINSON AZ	3	YATES PETROLEUM CORPORATION	2450	ABD-OW		TWP: 18 S - Range: 25 E - Sec. 25
300152142200	YATES AS FEE	4	YATES PETROLEUM CORPORATION	2475	OIL	GLRT	TWP: 18 S - Range: 25 E - Sec. 25
300152143000	NIX-CURTIS BH	4	YATES PETROLEUM CORPORATION	1495	ABD-OW		TWP: 18 S - Range: 25 E - Sec. 25
300152143400	HORNBAKER BA	3	YATES PETROLEUM CORPORATION	2500	OIL	PDCK	TWP: 18 S - Range: 25 E - Sec. 25
300152213600	YATES' AS' FEE	5	YATES PETROLEUM CORP	822	J&A		TWP: 18 S - Range: 25 E - Sec. 26
300152225000	MORRISON COM	1	NEARBURG PRODUCING COMPANY	9448	ABDO&G	GLRT	TWP: 19 S - Range: 26 E - Sec. 5
300152227200	YATES AS FEE	5X	YATES PETROLEUM CORPORATION	1600	ABD-OW		TWP: 18 S - Range: 25 E - Sec. 26
300152227800	WILKINSON AZ	4	YATES PETROLEUM CORPORATION	2500	OIL	GLRT	TWP: 18 S - Range: 25 E - Sec. 26
300152228600	GERARD AW	4	YATES PETROLEUM CORPORATION	1550	OIL	GBSA	TWP: 18 S - Range: 25 E - Sec. 25
300152229300	NICKSON BM	4	YATES PETROLEUM CORPORATION	1550	ABD-OW		TWP: 18 S - Range: 26 E - Sec. 30
300152231100	BABCOCK IR	1	YATES PETROLEUM CORPORATION	2500	OIL	PDCK	TWP: 18 S - Range: 25 E - Sec. 26
300152232100	SECRET ET AL	1	DORCHESTER EXPL INC	9425	D&A		TWP: 19 S - Range: 26 E - Sec. 7
300152232800	GUSHWA DR	2	YATES PETROLEUM CORPORATION	2400	OIL	PDCK	TWP: 18 S - Range: 25 E - Sec. 35
300152242000	LUGGETT ETAL COM	1	NEARBURG PRODUCING COMPANY	9318	ABD-GW		TWP: 19 S - Range: 26 E - Sec. 6
300152264800	LOSSE ET AL COM	1	DORCHESTER EXPL INC	9311	D&A		TWP: 19 S - Range: 26 E - Sec. 6
300152265200	RIO PENASCO JX CM 1	1	YATES PETROLEUM CORPORATION	9265	GAS	MRRW	TWP: 18 S - Range: 25 E - Sec. 35
300152298200	FEDERAL '11'	1	COTTON PETROLEUM CORPORATION	9300	ABD-GW		TWP: 19 S - Range: 25 E - Sec. 11
300152302500	METCALF LT COM	1	YATES PETROLEUM CORPORATION	9370	ABD-OW		TWP: 18 S - Range: 26 E - Sec. 31
300152307400	RIO PENASCO 'MF' FDR	1	YATES PETROLEUM CORPORATION	9363	O&G	PSLV	TWP: 19 S - Range: 25 E - Sec. 11
300152322700	RIO PENASCO 'KD' COM	1	YATES PETROLEUM CORPORATION	9260	GAS	MRRW	TWP: 19 S - Range: 25 E - Sec. 2
300152329200	ALLEY	1	BP AMERICA PRODUCTION COMPANY	9372	ABD-GW		TWP: 19 S - Range: 25 E - Sec. 1
300152331500	COTTON MXFED	1	YATES PETROLEUM CORPORATION	9480	SERVCE	PSLV	TWP: 19 S - Range: 25 E - Sec. 14
300152335300	RIO PENASCO KD COM	2	YATES PETROLEUM CORPORATION	9300	GAS	WFMP	TWP: 19 S - Range: 25 E - Sec. 2
300152342600	CUSHWA DRAW	3	YATES PETROLEUM CORPORATION	9160	GAS	MRRW	TWP: 18 S - Range: 25 E - Sec. 35
300152349600	RIO PENASCO 'OJ' COM	1	YATES PETROLEUM CORPORATION	9140	ABD-GW	PSLV	TWP: 18 S - Range: 25 E - Sec. 34
300152351100	STROMBERG 'OM'	1	YATES PETROLEUM CORPORATION	3100	ABD-OW		TWP: 18 S - Range: 26 E - Sec. 31
300152354600	GLASS	1	ANADARKO PRODUCTION COMPANY	9394	ABD-GW		TWP: 19 S - Range: 25 E - Sec. 12
300152370100	RIO PENASCO 'JX' COM	2	YATES PETROLEUM CORPORATION	9300	GAS	PSLV	TWP: 18 S - Range: 25 E - Sec. 35
300152380100	RIO PENASCO 'KD' COM	3	YATES PETROLEUM CORPORATION	9360	ABD-GW		TWP: 19 S - Range: 25 E - Sec. 11
300152397800	RIO PENASCO 'RT' COM	1	YATES PETROLEUM CORPORATION	9226	GAS	PSLV	TWP: 19 S - Range: 25 E - Sec. 3
300152416300	ANDERSON 1	1	ANADARKO PETROLEUM CORPORATION	9354	ABD-GW		TWP: 19 S - Range: 25 E - Sec. 1
300152470400	BONNY 'YM'	1	YATES PETROLEUM CORPORATION	3250	ABD-OW		TWP: 18 S - Range: 25 E - Sec. 26
300152587600	GLASS 'ZE'	1	NEARBURG PRODUCING COMPANY	9401	ABD-GW		TWP: 19 S - Range: 26 E - Sec. 7
300152599100	ROSE '12A'	1	NEARBURG PRODUCING COMPANY	9345	GAS	STRN	TWP: 19 S - Range: 25 E - Sec. 12
300152599600	SLEEPY	1	TERRA RESOURCES INC	9350	D&A		TWP: 18 S - Range: 26 E - Sec. 31
300152627000	HOWE '6L'	1	NEARBURG PROD CO	9395	D&A		TWP: 19 S - Range: 26 E - Sec. 6
300152778900	RIO PENASCO 'RT'	2	YATES PETROLEUM CORP	6200	D&A		TWP: 18 S - Range: 25 E - Sec. 34
300152816400	LAKEWOOD FARMS '18'	1	NEARBURG PROD CO	9588	D&A		TWP: 19 S - Range: 26 E - Sec. 18
300152816600	SERRANO FEDERAL 11	1	YATES PETROLEUM CORPORATION	8173	OIL	PSLV	TWP: 19 S - Range: 25 E - Sec. 11
300152849900	SCOUT 'EH' FEDERAL	6	YATES PETROLEUM CORPORATION	6202	OIL	WFMP	TWP: 18 S - Range: 25 E - Sec. 34
300152889700	OTTAWA 'AOW' FED	3	YATES PETROLEUM CORPORATION	8250	OIL	PSLV	TWP: 19 S - Range: 25 E - Sec. 10
300152889800	ARROW 'ARW' 11 FED COM	1	YATES PETROLEUM CORPORATION	8140	OIL	PSLV	TWP: 19 S - Range: 25 E - Sec. 11
300152919000	OTTAWA 'AOW' FED	4	YATES PETROLEUM CORP	80	D&A		TWP: 19 S - Range: 25 E - Sec. 10
300152925500	RIO PENASCO 'MF' CO	2	YATES PETROLEUM CORPORATION	9350	O&G	MRRW	TWP: 19 S - Range: 25 E - Sec. 11
300152940100	SERRANO FEDERAL	2	YATES PETROLEUM CORPORATION	8120	OIL	PSLV	TWP: 19 S - Range: 25 E - Sec. 11
300152943100	APOLLO 'APU' FED	3	YATES PETROLEUM CORPORATION	8230	OIL	PSLV	TWP: 19 S - Range: 25 E - Sec. 10
300152945300	OTTAWA 'AOW' FED	6	YATES PETROLEUM CORPORATION	8220	ABD-OW		TWP: 19 S - Range: 25 E - Sec. 10
300152971000	PATRICK 'API'	6	YATES PETROLEUM CORPORATION	8170	OIL	PSLV	TWP: 19 S - Range: 25 E - Sec. 10
300153171900	YATES 'AS' FEE COM	6	YATES PETROLEUM CORPORATION	9142	GAS	MRRW	TWP: 18 S - Range: 25 E - Sec. 25
300153190500	METROPOLIS 'AZL' 36 STATE COM	1	YATES PETROLEUM CORP	9363	SERVCE	DVNN	TWP: 18 S - Range: 25 E - Sec. 36
300153190600	SUBURB 'AZS' 36 STATE COM	1	YATES PETROLEUM CORPORATION	9340	OIL	BLBR	TWP: 18 S - Range: 25 E - Sec. 36
300153245000	BONES 'BAD'	1	YATES PETROLEUM CORPORATION	9350	GAS	PSLV	TWP: 18 S - Range: 26 E - Sec. 31
300153426800	BERMUDA	1	CHI OPERATING INC	9800	D&A		TWP: 19 S - Range: 26 E - Sec. 7

API Number	Operator	Well Name	TVD	Status	Producing formation
30-015-00111	YATES PETROLEUM CORPORATION	FEDERAL AK 001	0	ACTIVE	WOLFCAMP
30-015-00155	YATES PETROLEUM CORPORATION	SCOUT EH FEDERAL 001	0	ACTIVE	SA-YESO
30-015-00255	LEGACY RESERVES OPERATING, LP	ANDREW ARNQUIST ESTATE 001	9178	FLOWING	PENN
30-015-00258	YATES PETROLEUM CORPORATION	NIX CURTIS J F 001	9295	ACTIVE	SA-YESO
30-015-29797	YATES PETROLEUM CORPORATION	SERRANO FEDERAL 003	8400	ACTIVE	MORROW
30-015-29710	YATES PETROLEUM CORPORATION	PATRICK API 006	8170	PUMPING	UPPER PENN, NORTH
30-015-29431	YATES PETROLEUM CORPORATION	APOLLO APU FEDERAL COM 003	8230	PUMPING	UPPER PENN, NORTH
30-015-29401	YATES PETROLEUM CORPORATION	SERRANO FEDERAL 002	8120	PUMPING	UPPER PENN, NORTH
30-015-29453	YATES PETROLEUM CORPORATION	OTTAWA AOW FEDERAL 006	8220	PUMPING	UPPER PENN, NORTH
30-015-29048	YATES PETROLEUM CORPORATION	APOLLO APU FEDERAL COM 002	8400	PUMPING	UPPER PENN, NORTH
30-015-29253	YATES PETROLEUM CORPORATION	OTTAWA AOW FEDERAL 005	0	UNKNOWN	UNKNOWN
30-015-29255	YATES PETROLEUM CORPORATION	RIO PENASCO MF FEDERAL	9350	FLOWING	UPPER PENN, NORTH
30-015-28871	YATES PETROLEUM CORPORATION	POLO AOP FEDERAL COM 006	8250	PUMPING	UPPER PENN, NORTH
30-015-29116	YATES PETROLEUM CORPORATION	BOYD BN DEEP COM 005	8300	TEMPORARILY ABANDONED	UPPER PENN, NORTH
30-015-29190	YATES PETROLEUM CORPORATION	OTTAWA AOW FEDERAL 004	0	ACTIVE	UPPER PENN, NORTH
30-015-29191	YATES PETROLEUM CORPORATION	POLO AOP FEDERAL COM 007	0	UNKNOWN	UNKNOWN
30-015-28679	NEARBURG PRODUCING COMPANY	OSAGE BOYD 15 FEDERAL COM 003	8200	SHUT-IN	UPPER PENN, NORTH
30-015-28774	YATES PETROLEUM CORPORATION	BOYD BN COM 003	0	CANCELLED	UNKNOWN
30-015-28775	YATES PETROLEUM CORPORATION	BOYD BN COM 004	0	CANCELLED	UNKNOWN
30-015-28840	YATES PETROLEUM CORPORATION	APOLLO APU FEDERAL COM 001	8275	PUMPING	UPPER PENN, NORTH
30-015-28897	YATES PETROLEUM CORPORATION	OTTAWA AOW FEDERAL 003	8250	PUMPING	UPPER PENN, NORTH
30-015-28898	YATES PETROLEUM CORPORATION	ARROW ARW FEDERAL COM 001	8140	ACTIVE	UPPER PENN, NORTH
30-015-28945	NEARBURG PRODUCING COMPANY	OSAGE BOYD 15 FEDERAL COM 006	8128	PUMPING	UPPER PENN, NORTH
30-015-28981	NEARBURG PRODUCING COMPANY	OSAGE BOYD 15 0 7	8170	SHUT-IN	?
30-015-28982	YATES PETROLEUM CORPORATION	PATRICK API 004	8250	PUMPING	UPPER PENN, NORTH
30-015-28992	NEARBURG PRODUCING COMPANY	OSAGE BOYD 15 FEDERAL COM 008	8135	SHUT-IN	UPPER PENN, NORTH
30-015-28592	YATES PETROLEUM CORPORATION	PATRICK API 001	8250	PUMPING	UPPER PENN, NORTH
30-015-28599	NEARBURG PRODUCING COMPANY	OSAGE BOYD 15 002	9580	ACTIVE	UPPER PENN, NORTH / MARROW
30-015-28742	YATES PETROLEUM CORPORATION	POLO AOP FEDERAL 005	8300	ACTIVE	?
30-015-28743	YATES PETROLEUM CORPORATION	POLO AOP FEDERAL 004	9450	ACTIVE	UPPER PENN, NORTH / MARROW
30-015-28753	YATES PETROLEUM CORPORATION	OTTAWA AOW FEDERAL 002	8200	PUMPING	UPPER PENN, NORTH
30-015-28499	YATES PETROLEUM CORPORATION	SCOUT EH FEDERAL COM 006	6202	ACTIVE	WOLFCAMP
30-015-28558	YATES PETROLEUM CORPORATION	BOYD BN 002	8400	PUMPING	UPPER PENN, NORTH
30-015-28164	NEARBURG PRODUCING COMPANY	LAKEWOOD FARMS 18 001	9550	ACTIVE	MARROW, WEST
30-015-28166	YATES PETROLEUM CORPORATION	SERRANO FEDERAL 001	8173	ACTIVE	UPPER PENN, NORTH
30-015-28381	NEARBURG PRODUCING COMPANY	FAIRCHILD 13 003	0	CANCELLED	
30-015-28382	NEARBURG PRODUCING COMPANY	FAIRCHILD 13 004	0	CANCELLED	
30-015-28383	NEARBURG PRODUCING COMPANY	FAIRCHILD 13 005	0	CANCELLED	
30-015-28169	YATES PETROLEUM CORPORATION	POLO AOP FEDERAL 003	8250	PUMPING	UPPER PENN, NORTH
30-015-28170	YATES PETROLEUM CORPORATION	POLO AOP FEDERAL 001	8294	PUMPING	UPPER PENN, NORTH
30-015-27789	YATES PETROLEUM CORPORATION	RIO PENASCO RT 002	6200	ACTIVE	WOLFCAMP
30-015-10335	YATES PETROLEUM CORPORATION	GUY W NICKSON A 001	9200	SHUT-IN	PENN (PRO GAS)
30-015-25876	NEARBURG PRODUCING COMPANY	GLASS 001	9399	SHUT-IN	MARROW, WEST
30-015-25991	NEARBURG PRODUCING COMPANY	ROSE 12A 001	9352	ACTIVE	STRAWN
30-015-10740	YATES PETROLEUM CORPORATION	YATES AS FEE 001	1859	PUMPING	SA-YESO (ASSOC)

API Number	Operator	Well Name	TVD	Status	Producing formation
30-015-10800	YATES PETROLEUM CORPORATION	GERARD AW 001	2653	SHUT-IN	SA-YESO (ASSOC)
30-015-10828	YATES PETROLEUM CORPORATION	STATE AI 001	1833	ACTIVE	SA-YESO (ASSOC)
30-015-24704	YATES PETROLEUM CORPORATION	BONNIE YM 001	3250	SHUT-IN	SA-YESO (ASSOC)
30-015-10886	YATES PETROLEUM CORPORATION	GERARD AW 002	0	PUMPING	SA-YESO (ASSOC)
30-015-10890	YATES PETROLEUM CORPORATION	FEDERAL AY 001	0	ACTIVE	SA-YESO (ASSOC)
30-015-20007	YATES PETROLEUM CORPORATION	WILKINSON AZ 001	5120	PLUGGED AND ABANDONED	SA-YESO (ASSOC)
30-015-20015	YATES PETROLEUM CORPORATION	HORNBAKER BA 001	5219	ACTIVE	SA-YESO (ASSOC)
30-015-20016	YATES PETROLEUM CORPORATION	YATES AS FEE 002	5917	SHUT-IN	SA-YESO (ASSOC)
30-015-20056	YATES PETROLEUM CORPORATION	STARK BG 001	3700	SHUT-IN	SA-YESO (ASSOC)
30-015-20064	YATES PETROLEUM CORPORATION	KINCAID BI 001	3300	TEMPORARILY ABANDONED	SA-YESO (ASSOC)
30-015-20070	YATES PETROLEUM CORPORATION	NIX CURTIS BH 001	3400	ACTIVE	SA-YESO (ASSOC)
30-015-23801	WILDCAT ENERGY LLC	RIO PENASCO KD COM 003	9360	TEMPORARILY ABANDONED	UPPER PENN, NORTH
30-015-24163	ANADARKO PETROLEUM CORP	ANDERSON 001	9365	PUMPING	MORROW (GAS)
30-015-20113	YATES PETROLEUM CORPORATION	NIX CURTIS BH 002	1702	ACTIVE	SA-YESO (ASSOC)
30-015-23511	YATES PETROLEUM CORPORATION	STROMBERG OM 001	0	SHUT-IN	SA-YESO (ASSOC)
30-015-23580	MESQUITE SWD, INC	ANN SWD 001	9540	SALT WATER DISPOSAL	CANYON
30-015-23978	YATES PETROLEUM CORPORATION	RIO PENASCO RT COM 001	9226	FLOWING	PERMO PENN (GAS)
30-015-20137	YATES PETROLEUM CORPORATION	WILKINSON AZ 002	2450	SHUT-IN	SA-YESO (ASSOC)
30-015-20140	YATES PETROLEUM CORPORATION	NICKSON BM 001	3415	SHUT-IN	SA-YESO (ASSOC)
30-015-20153	YATES PETROLEUM CORPORATION	BOYD BN COM 001	9416	ACTIVE	MORROW (GAS)
30-015-23315	YATES PETROLEUM CORPORATION	COTTON MX FEDERAL COM 001	9480	SALT WATER DISPOSAL	MORROW (GAS)/UPPER PENN
30-015-23426	YATES PETROLEUM CORPORATION	GUSHWA DR 003	9160	ACTIVE	MORROW (GAS)
30-015-23496	YATES PETROLEUM CORPORATION	RIO PENASCO OJ COM 001	9140	SHUT-IN	MORROW (GAS)/ATOKA (GAS)
30-015-23701	YATES PETROLEUM CORPORATION	RIO PENASCO JX COM 002	9300	ACTIVE	MORROW (GAS)/ATOKA (GAS)
30-015-23726	YATES PETROLEUM CORPORATION	SCOUT EH FEDERAL 005	9150	ACTIVE	RIO PENASCO KD COM 002
30-015-23074	YATES PETROLEUM CORPORATION	RIO PENASCO MF FEDERAL 001	9355	FLOWING	MORROW (GAS)/PERMO PENN (GAS)
30-015-23227	YATES PETROLEUM CORPORATION	RIO PENASCO KD COM 001	9260	FLOWING	MORROW (GAS)
30-015-23353	YATES PETROLEUM CORPORATION	RIO PENASCO KD COM 002	9300	PUMPING	RIO PENASCO KD COM 002
30-015-22972	YATES PETROLEUM CORPORATION	SCOUT EH FEDERAL 004	9063	SHUT-IN	MORROW (GAS)
30-015-23025	YATES PETROLEUM CORPORATION	METCALF LT COM 001	9370	SHUT-IN	SA-YESO (ASSOC)
30-015-20334	YATES PETROLEUM CORPORATION	POLO AOP FEDERAL COM 002	9230	TEMPORARILY ABANDONED	MORROW (GAS)/UPPER PENN,NORTH
30-015-22135	Yates Petroleum Corporation	Stark BG 002	0	Active	Yeso
30-015-22250	Nearburg Producing Co.	Morrison Com 001	6900	Pumping	Glorieta-Yeso
30-015-22311	Yates Petroleum Corporation	Babcock IR 001	0	Pumping	SA-Yeso
30-015-22328	Yates Petroleum Corporation	Gushwa DR 002	0	Pumping	SA-Yeso
30-015-22420	Nearburg Producing Co.	Liggett Com 001	9280	Pumping	Morrow, West
30-015-22599	Nearburg Producing Co.	Crusader Rabbit Com 001	9500	Pumping	Strawn, West
30-015-22652	Yates Petroleum Corporation	Rio Penasco JX Com 001	9265	Active	Morrow
30-015-22116	Yates Petroleum Corporation	Yates Federal 003	0	Shut-in	SA-Yeso
30-015-22272	Yates Petroleum Corporation	Yates AS Fee 005Y	0	Shut-in	SA-Yeso
30-015-22278	Yates Petroleum Corporation	Wilkinson AZ 004	0	Active	SA-Yeso
30-015-22286	Yates Petroleum Corporation	Gerard AW 004	1550	Active	SA-Yeso
30-015-22293	Yates Petroleum Corporation	Nickson BM 004	0	Active	SA-Yeso
30-015-20400	Yates Petroleum Corporation	Federal AY 002	0	Active	SA-Yeso
30-015-20438	Yates Petroleum Corporation	Ottawa AOW Federal 001	9222	Pumping	Upper Penn
30-015-21393	Yates Petroleum Corporation	Nickson BM 003	0	Shut-in	SA-Yeso

API Number	Operator	Well Name	TVD	Status	Producing formation
30-015-21406	Yates Petroleum Corporation	Yates AS Fee 003	1619	Active	SA-Yeso
30-015-21410	Yates Petroleum Corporation	Gerard AW 003	0	Active	SA-Yeso
30-015-21411	Yates Petroleum Corporation	Wilkinson AZ 003	0	Shut-in	SA-Yeso
30-015-21560	Yates Petroleum Corporation	Scout EH Federal Com 002	9090	Active	Upper Penn
30-015-21038	Yates Petroleum Corporation	Scout EH Federal Com 003	5922	Pumping	Wolfcamp
30-015-21355	Nearburg Producing Co.	Osage Boyd Com 001	9256	Temporarily Abandoned	Upper Penn
30-015-21422	Yates Petroleum Corporation	Yates AS Fee 004	0	Active	SA-Yeso
30-015-21430	Yates Petroleum Corporation	Nix Curtis BH 004	0	Shut-in	SA-Yeso
30-015-21434	Yates Petroleum Corporation	Hornbaker BA 003	0	Active	SA-Yeso
30-015-20592	YATES PETROLEUM CORPORATION	HORNBAKER BA 002	9150	Active	SA-Yeso
30-015-20692	YATES PETROLEUM CORPORATION	ARCO 10 FEDERAL 002	9291	Pumping	Upper Penn
30-015-21002	YATES PETROLEUM CORPORATION	GUSHWA DR 001	9220	Pumping	SA-Yeso
30-015-21065	YATES PETROLEUM CORPORATION	YATES FEDERAL 002	0	Shut-in	SA-Yeso
30-015-21204	YATES PETROLEUM CORPORATION	NIX CURTIS BH 003	0	Active	SA-Yeso
30-015-31719	YATES PETROLEUM CORPORATION	YATES AS FEE COM 006	9142	Active	Morrow
30-015-31906	YATES PETROLEUM CORPORATION	SUBURB AZS STATE COM 001	9340	Active	SA-Yeso
30-015-31905	AGAVE ENERGY CO	METROPOLIS AZL STATE COM 1	10500	Active	Devonian (Disposal)
30-015-31961	YATES PETROLEUM CORPORATION	SENECA AYS FEDERAL COM 001	9300	Active	
30-015-32096	YATES PETROLEUM CORPORATION	BOYD BN COM 003Q		Active	Upper Penn
30-015-32097	YATES PETROLEUM CORPORATION	BOYD BN COM 004Q		Active	Upper Penn
30-015-00107	GULF OIL CORP.	PRE-ONGARD WELL 001	9283	Unknown	
30-015-00109	PAN AMERICAN PETR. CORP.	PRE-ONGARD WELL 001	5800	Unknown	
30-015-00110	PAN AMERICAN PETROLEUM CORP.	PRE-ONGARD WELL 001	5818	Active	SA-Yeso
30-015-00153	YATES PETROLEUM CORP.	PRE-ONGARD WELL 001		Active	SA-Yeso
30-015-00106	RESLER & SHELDON	PRE-ONGARD WELL 001	1408	Unknown	
30-015-00108	YATES PETROLEUM CORP.	PRE-ONGARD WELL 002	1802	Unknown	
30-015-05938	YATES PETROLEUM CORP	PRE-ONGARD WELL 001		Active	SA-Yeso
30-015-05928	YATES PETROLEUM CORPORATION	PRE-ONGARD WELL 001	1331	Unknown	
30-015-10243	MARTIN YATES III	PRE-ONGARD WELL 001	2569	Active	
30-015-10338	H & S OIL COMPANY	PRE-ONGARD WELL 001	10200	Unknown	
30-015-20134	YATES PETROLEUM CORPORATION	PRE-ONGARD WELL 001	1588	Unknown	
30-015-20755	YATES PETROLEUM CORPORATION	PRE-ONGARD WELL 002	9029	Unknown	
30-015-22321	CIMAREX ENERGY CO. OF COLORADO		9421	Unknown	
30-015-22648	YATES PETROLEUM CORPORATION		9310	Unknown	
30-015-22982	COTTON PETROLEUM COMPANY	PRE-ONGARD WELL 001	9300	Active	Morrow
30-015-23292	AMOCO PRODUCTION COMPANY	PRE-ONGARD WELL 001	9372	Active	Morrow
30-015-25996	TERRA RESOURCES INC.	PRE-ONGARD WELL 001	9350	Unknown	
30-015-26270	NEARBURG PRODUCING CO	PRE-ONGARD WELL 001	8335	Unknown	
30-015-25970	NEARBURG PRODUCING CO	PRE-ONGARD WELL 001	9500	Unknown	
30-015-32360	YATES PETROLEUM CORPORATION	ABUNDANCE AVZ 001	9430	Active	Morrow
30-015-32450	YATES PETROLEUM CORPORATION	BONES BAD 001	9350	Active	Wolfcamp

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Friday, March 09, 2012 2:22 PM
To: 'Mark Fairchild'
Cc: Ezeanyim, Richard, EMNRD; Shapard, Craig, EMNRD; Hawkins, Phil, EMNRD
Subject: Disposal well application from Concho: Lakewood SWD #3 30-015-23292 Canyon interval from 7600 to 8100 feet

Tracking:	Recipient	Read
	'Mark Fairchild'	
	Ezeanyim, Richard, EMNRD	Read: 3/9/2012 2:25 PM
	Shapard, Craig, EMNRD	Read: 3/9/2012 2:25 PM
	Hawkins, Phil, EMNRD	

Hello Mark,

Looked over this today and have feedback below,

- C a. Please send another Post Conversion wellbore diagram showing the tubing and packer in place in the well – and a (to be installed) new plug back CIBP/cement inside the wellbore located 200 feet or less below your disposal interval.
- OK b. Let me know what geologic formations will be contributing waste water to this well – and send water analysis for each of these.
- ✓ c. Run a query and send a simple list of wells located within two miles of this well, showing well name, operator, API number, total depth for each well, well status, and producing formation. You may have to look through well files to determine total depths.
- OK d. The application showed three plugged wells located within ½ mile, but only one plugged wellbore diagram. Send wellbore diagrams for each of the other two plugged wells.
- None e. How many non-plugged wells were drilled at least into the Upper Penn and are located within ½ mile of this well – and what formation is being produced in each of these. (I could not easily determine this info from your application).
- ? f. We know the surface owner of this location is a Fee owner – who is it and were they noticed?
- OK g. The Canyon formation targeted for disposal in this well appears very low porosity – why was it picked for disposal?
- h. Where and what is the nearest Canyon formation producing well to this location?
- i. Where is the nearest Canyon formation salt water disposal well?
- ? j. Is the insitu waters in the Canyon formation in this well more than 10,000 mg/l of TDS?

also Bond Issue

Seems like a lot of questions, but your geologist and engineer may be able to answer them quickly.

Thank You,

Jones, William V., EMNRD

From: Carol Leach [CLeach@concho.com]
Sent: Tuesday, March 13, 2012 2:57 PM
To: Jones, William V., EMNRD
Cc: Dade, Randy, EMNRD; Phillips, Dorothy, EMNRD
Subject: RE: Concho Bonding Requirement for OGRID=229137

Hi Will,

We did plug it, but haven't sent in all the paperwork and I gather we missed the date for the bond. Thanks for bringing it to our attention. Our regulatory lead for the area will be in touch with

Randy this afternoon. If we can't move very quickly on the release we will work with Dorothy on the bonding.

Thanks for the heads up.

Carol

From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Tuesday, March 13, 2012 12:27 PM
To: Carol Leach
Cc: Dade, Randy, EMNRD; Phillips, Dorothy, EMNRD
Subject: Concho Bonding Requirement for OGRID=229137

Hey Carol,

I have an application from Concho's Mark Fairchild – and reviewed and sent feedback to him March 9.

Today I just remembered, I also saw where Concho needs a single well bond, I believe on the 30-015-10822 well.

Have not heard back from Mark on the other stuff, but can't release the SWD permit until either the bond is posted or we learn the software showing the bond requirement was in error.

Our Artesia office would be the ones to confirm this – sometimes if an operator takes over a plugged well to reenter it and submits an APD, then the plugging requirement shows up.

Hope all is well,

William V Jones, P.E.
Engineering, Oil Conservation Division
1220 South St. Francis Drive, Santa Fe, NM 87505
Tel 505.476.3448 ~ Fax 505.476.3462

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Wednesday, April 25, 2012 10:39 AM
To: Dora Lara
Cc: 'Carol Leach'; Shapard, Craig, EMNRD; Ezeanyim, Richard, EMNRD
Subject: Disposal well application from Concho: Lakewood SWD #3 30-015-23292 Canyon interval from 7600 to 8100 feet

Hello Dora,

I have all the maps and log traces you sent – thank you.

There are no single well bonds needed, so all is well in that respect.

Below is copied the email sent in March asking for data to process this application.

I reviewed it again today and have all I need except answers to letters: a. f. and j.

- a. Please send a quick, simple post-conversion wellbore diagram showing the well you want to inject into internally plugged back to within 200 feet of the disposal interval.
- f. Who is the surface owner? – send proof of notice.
- j. Send a statement as to the salinity of the insitu Canyon formation waters – or a proposed method that COG wishes to use to determine this after the well is re-entered. You could ask your log analysts to infer the salinity from resistivity logs, or maybe COG wants to swab after the well is re-entered. Let me know?

Thanks a bunch.

Will Jones
New Mexico
Oil Conservation Division
[Images](#) [Contacts](#)

From: Jones, William V., EMNRD
Sent: Friday, March 09, 2012 2:22 PM
To: 'Mark Fairchild'
Cc: Ezeanyim, Richard, EMNRD; Shapard, Craig, EMNRD; Hawkins, Phil, EMNRD
Subject: Disposal well application from Concho: Lakewood SWD #3 30-015-23292 Canyon interval from 7600 to 8100 feet

Hello Mark,

Looked over this today and have feedback below,

Jones, William V., EMNRD

From: Dora Lara [DLara@concho.com]
Sent: Thursday, April 26, 2012 8:34 AM
To: Jones, William V., EMNRD
Cc: Mark Fairchild
Subject: RE: Disposal well application from Concho: Lakewood SWD #3 30-015-23292 Canyon interval from 7600 to 8100 feet

Hello Mr. Jones I have forwarded your email to Mark Fairchild which I believe can provide you with the information that you have listed below. Thank you.

Dora Lara
COG Operating LLC
550 W. Texas Avenue, Suite 100
Midland, TX 79701
Phone: 432-685-4391



From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Wednesday, April 25, 2012 11:39 AM
To: Dora Lara
Cc: Carol Leach; Shapard, Craig, EMNRD; Ezeanyim, Richard, EMNRD
Subject: Disposal well application from Concho: Lakewood SWD #3 30-015-23292 Canyon interval from 7600 to 8100 feet

Hello Dora,
I have all the maps and log traces you sent – thank you.
There are no single well bonds needed, so all is well in that respect.
Below is copied the email sent in March asking for data to process this application.

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- a. Please send a quick, simple post-conversion wellbore diagram showing the well you want to inject into internally plugged back to within 200 feet of the disposal interval.
- f. Who is the surface owner? – send proof of notice.
- j. Send a statement as to the salinity of the insitu Canyon formation waters – or a proposed method that COG wishes to use to determine this after the well is re-entered. You could ask your log analysts to infer the salinity from resistivity logs, or maybe COG wants to swab after the well is re-entered. Let me know?

Jones, William V., EMNRD

From: Mark Fairchild [MFairchild@concho.com]
Sent: Thursday, May 03, 2012 8:51 AM
To: Jones, William V., EMNRD
Cc: Ramon Reyes; Greg Clark; Dora Lara; Jim Corbitt
Subject: Lakewood SWD #3 Disposal Well Application
Attachments: COG SENM SWD WBD Lakewood SWD #3 final.xlsx

Will, I have not been able to be as prompt in answer to your questions as I might like. I was out from April 3 until the 30th with a knee replacement. I think you have all of the information on this well except answers to questions you addressed to Dora Lara on 4/26. Here are those answers:

- ✓ 1. The revised WBD is attached showing a CIBP that we would set and cap with cement within 200' of the bottom most perf.
- ✓ 2. The chlorides calculated for the Canyon in this well are 67,200 ppm NaCl by calculation. COG can also swab test and report a water analysis of this interval.
- 2 3. Land owner contact. COG is currently in negotiations with the land owner to purchase this well bore. Yes, the land owner has been contacted.
- o 4. Please call me on Monday when you return to let me know the status of this application.

Thanks very much.

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



Jones, William V., EMNRD

From: Mark Fairchild [MFairchild@concho.com]
Sent: Wednesday, May 09, 2012 9:06 AM
To: Jones, William V., EMNRD
Subject: RE: Lakewood SWD #3 (Alley Re Entry)

Dunno, but we of course can send him one. As stated we are attempting to purchase the wellbore from him. I know that since we have not that does not mean anything. We will get a C-108 to him immediately.

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: Wednesday, May 09, 2012 10:05 AM
To: Mark Fairchild
Subject: RE: Lakewood SWD #3 (Alley Re Entry)

Thanks Mark,
Was this Glenn Fuller supplied with a copy of the C-108?

[Will Jones](#)
New Mexico
Oil Conservation Division
[Images](#) [Contacts](#)

From: Mark Fairchild [<mailto:MFairchild@concho.com>]
Sent: Wednesday, May 09, 2012 8:15 AM
To: Jones, William V., EMNRD
Subject: FW: Lakewood SWD #3 (Alley Re Entry)

Will, this is the surface owner that we have not only contacted but are in discussion to purchase wellbore from.

M.A. Fairchild

COG OPERATING LLC

Office: 432-686-3021

Cell: 432-230-7170



From: Noel Olivas

Sent: Tuesday, May 08, 2012 1:52 PM

To: Mark Fairchild

Subject: RE: Lakewood SWD #3 (Alley Re Entry)

Mark-

Glenn Fuller is the head of the trust. Here is his info.

Glenn Fuller

1849 Starduster Dr.

Nevada City, Ca

From: Mark Fairchild

Sent: Monday, May 07, 2012 9:12 AM

To: Jim Corbitt; Noel Olivas; Stuart Dirks; David Evans; Keith Corbett; Jason Barnett; Keenan Kern; Rolando Chavarria

Subject: Lakewood SWD #3 (Alley Re Entry)

Just spoke with Will Jones at NMOCD, he can get approval to re enter this well as SWD with the provision that we send him the name, address and any other contact info on the land owner of the well. Please send me that info to get to Will.

M.A. Fairchild

COG OPERATING LLC

Office: 432-686-3021

Injection Permit Checklist (11/15/2010)

WFX _____ PMX _____ SWD 1331 Permit Date 5/5/12 UIC Qtr (A/M/J)# Wells 1 Well Name(s): ALLEY #1 (well BE) → LAKESIDE SAND #3API Num: 30-015-23292 Spud Date: 4/2/80 New/Old: 0 (UIC primacy March 7, 1982)Footages: 2080 FUL/860 FUL Unit E 1 Sec 1 Tsp 19.5 Rge 25E County EDDYGeneral Location: 25 mi NW of CarlsbadOperator: COG OPERATING, LLC Contact Mark FairheadOGRID: 229137 RULE 5.9 Compliance (Wells) 8/3/2008 (Finan Assur) OK IS 5.9 OK? OKWell File Reviewed ✓ Current Status: RE-ENTER (old monitor Test)Planned Work to Well: RE-ENTERDiagrams: Before Conversion ✓ After Conversion _____ Elogs in Imaging File: ✓

Well Details: Sizes Hole.....Pipe Setting Depths Stage Tool Cement Sx or Cf Determination Method

New ___ Existing <u>✓</u> Surface	17 1/2	13 3/8	400			450 2'	CIR Visual
New ___ Existing <u>✓</u> Intern	12 1/4	9 5/8	1305			950-25TG	CIR Visual
New ___ Existing <u>✓</u> LongSt	8 3/4	5 1/2	9362 TD			2000 2 1/2"	1490 T.S.
New ___ Existing ___ Liner						(1750 LITE/250' H)	
New ___ Existing ___ OpenHole							

Depths/Formations: Depths, Ft. Formation Tops?

Formation(s) Above	7238	C1500	✓
	7631	Conyon	✓
Injection TOP:	7600	Conyon	Max. PSI 1520 OpenHole _____ Perfs <u>✓</u>
Injection BOTTOM:	8100	Conyon	Tubing Size 2 7/8 Packer Depth <u>100' ohe</u>
Formation(s) Below	8121	STRAIN	✓

Capitan Reef? _____ (Potash? _____ Noticed? _____) [WIPP? _____ Noticed? _____] Salado Top/Bot _____ Cliff House? _____

Fresh Water: Depths: _____ Formation _____ Wells? NONE Analysis? _____ Affirmative Statement ✓Disposal Fluid Analysis? ① Sources: COG operated wells (BLINERRY)Disposal Interval: Analysis? ① Production Potential/Testing: _____Notice: Newspaper Date 3/1/12 Surface Owner Fee Mineral Owner(s) Bentisco FeeRULE 26.7(A) Affected Persons: CIMAX/TPC/OXY/AOR: Maps? ✓ Well List? _____ Producing in Interval? _____ Wellbore Diagrams? _____

.....Active Wells _____ Repairs? _____ Which Wells? _____

.....P&A Wells _____ Repairs? _____ Which Wells? _____

Issues: Set interval PLUG w/in 200' / 5' sub Request Sent _____ Reply: _____

2 1 km from ELLENBURGER ACID GAS WELL

Sand TOPS