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RECEIVED OCD

2011 MAY 25 P 12: 59

May 24, 2011

Case 14676

Florene Davidson
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Dear Florene:

Enclosed for filing, on behalf of Cimarex Energy Co. of Colorado, are an original and one copy of an application for a secondary recovery project, together with a proposed advertisement. The advertisement has also been e-mailed to the Division. Please set this matter for the June 23, 2011 Examiner hearing. Thank you.

Very truly yours



James Bruce

Attorney for Cimarex Energy Co. of Colorado

PARTIES BEING NOTIFIED

Bureau of Land Management
620 East Greene Street
Carlsbad, New Mexico 88220

Penroc Oil Corp.
P.O. Box 2769
Hobbs, New Mexico 88241

Saber Oil & Gas Ventures, LLC
Suite 950
400 West Illinois
Midland, Texas 79701

Strata Production Company
P.O. Box 1030
Roswell, New Mexico 88202

BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION

RECEIVED OCD

APPLICATION OF CIMAREX ENERGY CO. OF
COLORADO FOR APPROVAL OF A SECONDARY
RECOVERY PROJECT AND TO QUALIFY THE
PROJECT FOR THE RECOVERED OIL TAX RATE,
LEA COUNY, NEW MEXICO.

MAY 25 P 12:59

Case No. 14676

APPLICATION

Cimarex Energy Co. of Colorado, whose address is Suite 600, 600 North Marienfeld, Midland, Texas 79701, applies for an order approving a secondary recovery project in the Yates formation (Buffalo-Yates Pool), and qualifying the project for the recovered oil tax rate. In support thereof, applicant states:

1. Applicant is the operator in the Yates formation of Federal Lease NM 12568-A (the Bondurant Federal Lease), which covers the following described lands:

Township 19 South, Range 32 East, N.M.P.M.

Section 1: E $\frac{1}{2}$, E $\frac{1}{2}$ NW $\frac{1}{4}$, and NE $\frac{1}{4}$ SW $\frac{1}{4}$,

containing 440.00 acres.

2. The Buffalo-Yates Pool is developed on the Division's statewide rules, with 40 acre well spacing, and wells to be located no closer than 330 feet to a quarter-quarter section line.

3. Applicant requests approval to inject produced water into the Yates formation in the Bondurant Fed. Well No. 10, an existing well located 990 feet from the north line and 1980 feet from the east line of Section 1, Township 19 South, Range 32 East, N.M.P.M., at depths of 3362-3650 feet subsurface.

4. Applicant requests that additional injection wells be approved administratively.

5. Applicant further requests that the project, to be called the Bondurant Federal Secondary Recovery Project, be qualified for the recovered oil tax rate pursuant to the Enhanced Oil Recovery Act (L. 1992, ch. 38) and Division regulations. Project data is as follows:

- (a) Initial number of producing wells: 6
- (b) Initial number of injection wells: 1
- (c) Capital cost of additional facilities: \$450,000.00
- (d) Estimated total project cost: \$600,000.00
- (e) Estimated value of incremental production: \$2,530,000.00
- (f) Estimated injection commencement date: July 2011
- (g) Type of injected fluid: Produced water
- (h) Anticipated injection volumes: 8,000 BWPD

6. The Form C-108 for the project is attached hereto.

7. Approval of this application will prevent waste and protect correlative rights.

WHEREFORE, applicant requests that, after notice and hearing, the Division enter its order approving the injection application and project.

Respectfully submitted,



James Bruce
Post Office Box 1056
Santa Fe, New Mexico 87504
(505) 982-2043

Attorney for Cimarex Energy Co. of
Colorado

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? Yes No
- II. OPERATOR Cimarex Energy Co. of Colorado
ADDRESS: 600 N. Marienfeld St. Suite 600; Midland, TX 79702
CONTACT PARTY: Kay Havenor PHONE: 575-626-4518
- 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: Kay Havenor TITLE: Consultant
SIGNATURE: *Kay C Havenor* DATE: May 28, 2011
E-MAIL ADDRESS: KHavenor@georesources.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: Cimarex Energy Co. of Colorado (OGRID 162383)

WELL NAME & NUMBER: Bondurant Federal #10 30-025-32431

WELL LOCATION: 990 FNL & 1980 FEL B 1 19S 32E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

See attached diagram

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12-1/4" Casing Size: 8-5/8" 28# H-40 STC

Cemented with: 360 sx. or _____ ft³

Top of Cement: Surface Method Determined: Circ 157 sx

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with _____ or _____ ft³

Top of Cement: _____ Method Determined _____

Production Casing

Hole Size: 7-7/8" Casing Size: 5-1/2" 15.5# @ 3,650'

Cemented with: 900 sx sx. or _____ ft³

Top of Cement: Surface Method Determined: Circ 84 sx

Total Depth: 3,650' _____

Injection Interval

3,362' To 3,650'

(Perforated or Open Hole; indicate which) Perforated

INJECTION WELL DATA SHEET

Tubing Size: 3-1/2" 9.3# N-80 Lining Material: Fiberglass coated

Type of Packer: Lok-Set or equivalent

Packer Setting Depth: Approx 3,310 ft

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

Additional Data

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

If no, for what purpose was the well originally drilled? Oil

2. Name of the Injection Formation: Yates

3. Name of Field or Pool (if applicable): Buffalo Yates

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. Details on well diagram

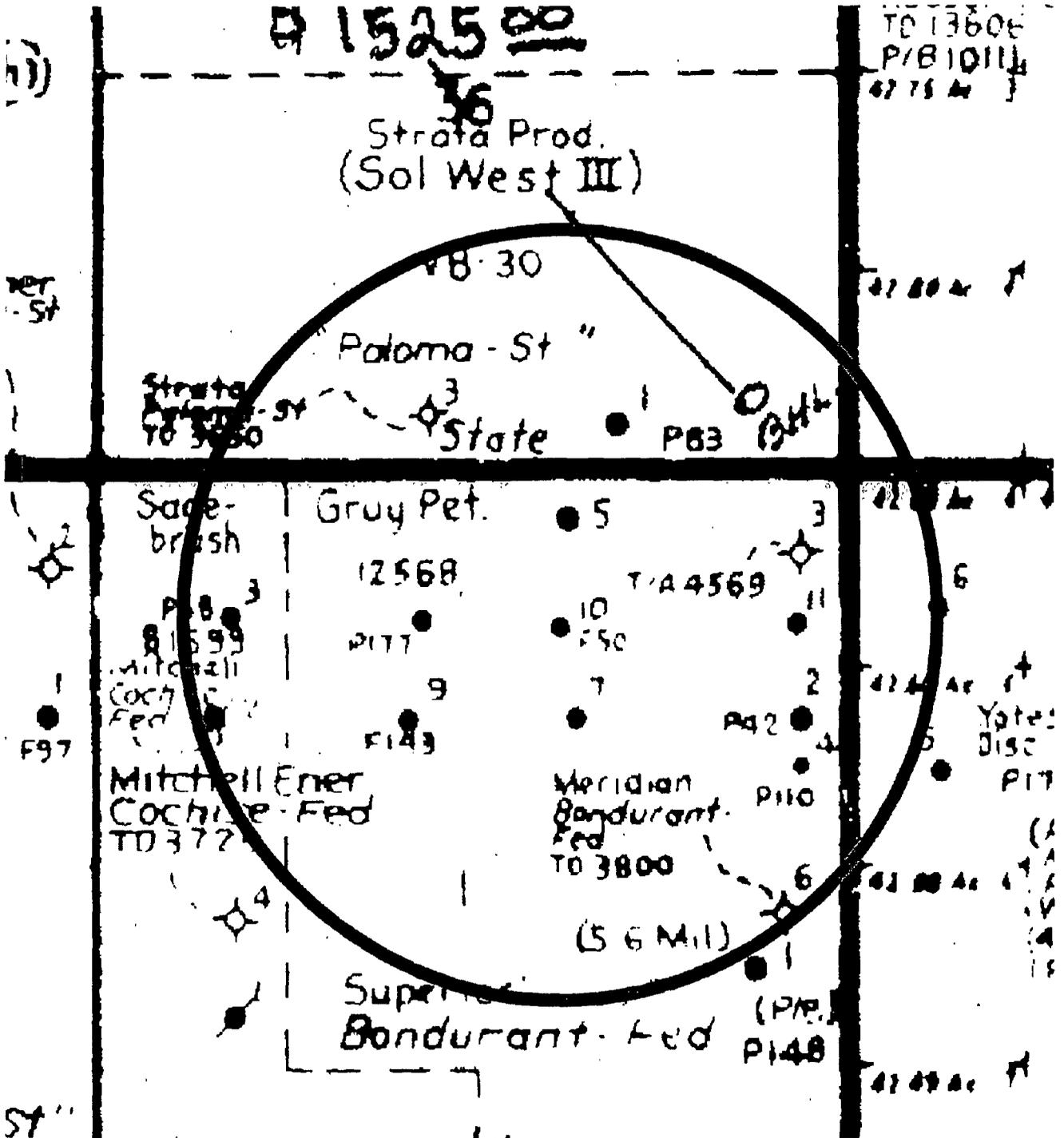
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Lusk Seven Rivers 3800', West Tonto Bone Springs 8,750', Buffalo Penn (Morrow) 13,254'

Cimarex Energy Company
Bondurant Federal #10
990' FNL & 1980' FEL
Sec. 1, T19S-R32E Lea County, NM

API 30-025-32431

Item V (a):

Area of Review
1/2 Mile AOR

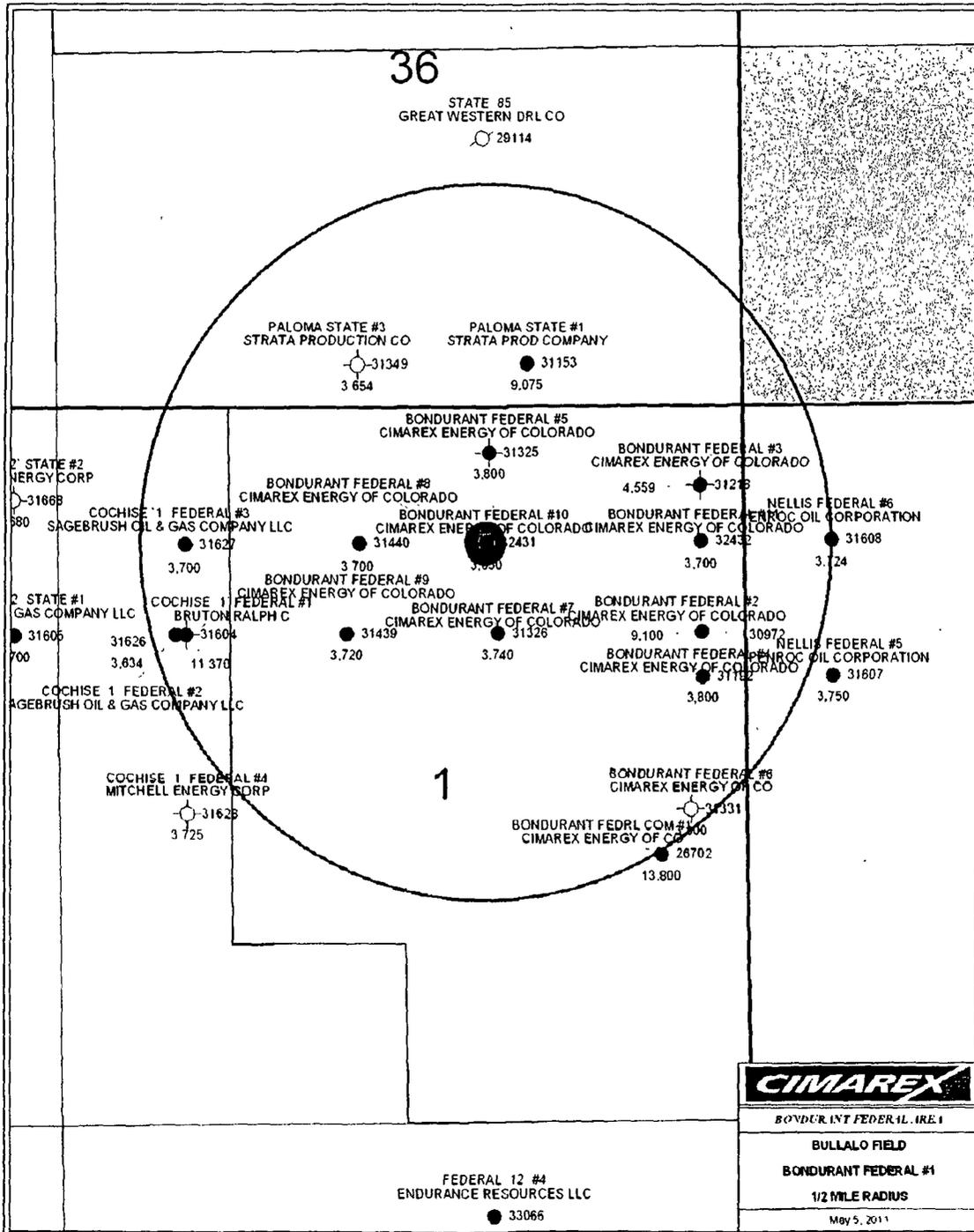


Cimarex Energy Company
 Bondurant Federal #10
 990' FNL & 1980' FEL
 Sec. 1, T19S-R32E Lea County, NM

API 30-025-32431

Item V (a):

Area of Review
 1/2 Mile AOR



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API	WELL NAME	STATUS	SEC	TWNSHP	RANGE	FTG	NS	FTG	EW	OC	OPERATOR	LAND	D/G/S	PLUG	SPUD	ELEVGL	TVD
3002540064	QUERECHE 36 STATE COM 001	New (Not drill)	36	18 0S	32E	330	N	400	W	D	CIMAREX ENERGY CO OF COLORADO	S	O			3731	0
3002531349	PALOMA STATE 003	Plugged	36	18.0S	32E	330	S	2310	W	N	STRATA PRODUCTION CO	S	O	9/16/1991	9/7/1991	3702	3654
3002531153	PALOMA STATE 001	Active	36	18 0S	32E	330	S	1650	E	O	STRATA PRODUCTION CO	S	O		2/27/1991	3710	9075
3002531218	BONDURANT FEDERAL 003	Plugged	1	19 0S	32E	580	N	330	E	A	CIMAREX ENERGY CO OF COLORADO	F	O	9/5/2010	7/5/1991	3697	4559
3002532432	BONDURANT FEDERAL 011	Active	1	19 0S	32E	990	N	330	E	A	CIMAREX ENERGY CO. OF COLORADO	F	O		3/8/1994	3690	3700
3002532431	BONDURANT FEDERAL 010	Active	1	19 0S	32E	990	N	1980	E	B	CIMAREX ENERGY CO. OF COLORADO	F	O		3/13/1994	3693	3650
3002531325	BONDURANT FEDERAL 005	Plugged	1	19 0S	32E	330	N	1950	E	B	CIMAREX ENERGY CO OF COLORADO	F	O	9/2/2010	7/16/1991	3706	3800
3002531440	BONDURANT FEDERAL 008	Active	1	19 0S	32E	990	N	2310	W	C	CIMAREX ENERGY CO OF COLORADO	F	O		1/8/1991	3698	3700
3002531627	COCHISE 1 FEDERAL 003	Active	1	19 0S	32E	990	N	990	W	D	SABER OIL , GAS VENTURES, LLC	F	O		7/6/1992	3697	3700
3002531604	COCHISE 1 FEDERAL 001	Plugged	1	19 0S	32E	1650	N	990	W	E	RALPH C BRUTON	F	O	3/13/2000	6/3/1992	3694	11370
3002531626	COCHISE 1 FEDERAL 002	Active	1	19 0S	32E	1650	N	915	W	E	SABER OIL , GAS VENTURES, LLC	F	O		8/6/1992	3598	3634
3002531439	BONDURANT FEDERAL 009	Active	1	19 0S	32E	1650	N	2210	W	F	CIMAREX ENERGY CO. OF COLORADO	F	O		1/15/1991	3717	3720
3002531326	BONDURANT FEDERAL 007	Active	1	19 0S	32E	1650	N	1900	E	G	CIMAREX ENERGY CO OF COLORADO	F	O		8/12/1991	3694	3740
3002530972	BONDURANT FEDERAL COM 002	Active	1	19 0S	32E	1650	N	330	E	H	CIMAREX ENERGY CO OF COLORADO	F	O		9/4/1990	3687	9100
3002531192	BONDURANT FEDERAL 004	Active	1	19 0S	32E	1980	N	330	E	H	CIMAREX ENERGY CO. OF COLORADO	F	O		3/2/1991	3687	3800
3002531331	BONDURANT FEDERAL 006	Plugged	1	19 0S	32E	2310	S	430	E	I	BURLINGTON RESOURCES OIL , GAS COMPANY LP	F	O	1/1/1900	1/1/1900	3685	3800
3002531628	COCHISE 1 FEDERAL 004	Plugged	1	19 0S	32E	2310	S	990	W	L	DEVON ENERGY OPERATING COMPANY LP	F	O	7/2/1992	7/14/1992	3690	3725
3002531608	NELLIS FEDERAL 006	Active	6	19 0S	33E	990	N	660	W	D	PENROC OIL CORP	F	O		6/19/1992	3695	3724

Cimarex Energy Company
 Bondurant Federal #10
 990' FNL & 1980' FEL
 Sec. 1, T19S-R32E Lea County, NM

API 30-025-32431

API	WELL NAME	STATUS	SEC	TOWNSHIP	RANGE	AS	FTG	ELEV	OCD	OPERATOR	LAND	OVIS	PLUG	EFUD	ELEV	TD
3002540064	QUERECHE 36 STATE COM #1	New/Not Dr	36	R32E	33D	N	400	N	C	CIMAREX ENERGY CO OF COLORADO	S	D			3731	0
3002531349	PALOMA STATE #03	Flagged	36	R32E	33D	S	230	N	K	STRATA PRODUCTION CO	S	D	9/5/1991	7/7/1991	3702	3654
3002531153	PALOMA STATE #01	Active	36	R32E	33D	S	1650	E	C	STRATA PRODUCTION CO	S	D		2/27/1991	3710	3675
3002531218	BONDURANT FEDERAL #03	Flagged		R32E	38D	N	330	E	D	CIMAREX ENERGY CO OF COLORADO	F	D	9/5/2010	7/5/1991	3697	3659
3002532432	BONDURANT FEDERAL #1	Active		R32E	38D	N	330	E	D	CIMAREX ENERGY CO OF COLORADO	F	D		3/23/1994	3690	3700
3002532431	BONDURANT FEDERAL #10	Active		R32E	38D	N	1930	E	E	CIMAREX ENERGY CO OF COLORADO	F	D		3/13/1994	3693	3650
3002531325	BONDURANT FEDERAL #05	Flagged		R32E	33D	N	1930	E	E	CIMAREX ENERGY CO OF COLORADO	F	D	9/2/2010	7/6/1991	3706	3600
3002531440	BONDURANT FEDERAL #08	Active		R32E	38D	N	230	N	C	CIMAREX ENERGY CO OF COLORADO	F	D		1/8/1991	3698	3700
3002531327	DOCHISE 1 FEDERAL #3	Active		R32E	38D	N	930	N	C	SABER OIL; GAS VENTURE, LLC	F	D		7/5/1993	3697	3700
3002531304	DOCHISE 1 FEDERAL #1	Flagged		R32E	36D	N	930	N	E	FALPH CERUTON	F	D	3/13/2000	6/3/1993	3694	3670
3002531326	DOCHISE 1 FEDERAL #2	Active		R32E	36D	N	930	N	E	SABER OIL; GAS VENTURE, LLC	F	D		8/5/1993	3698	3654
3002531439	BONDURANT FEDERAL #09	Active		R32E	36D	N	230	N	F	CIMAREX ENERGY CO OF COLORADO	F	D		11/5/1991	3717	3720
3002531328	BONDURANT FEDERAL #07	Active		R32E	36D	N	1930	E	G	CIMAREX ENERGY CO OF COLORADO	F	D		8/2/1991	3694	3740
3002531372	BONDURANT FEDERAL COM #02	Active		R32E	36D	N	330	E	F	CIMAREX ENERGY CO OF COLORADO	F	D		9/11/1993	3687	3700
3002531132	BONDURANT FEDERAL #04	Active		R32E	38D	N	330	E	F	CIMAREX ENERGY CO OF COLORADO	F	D		3/21/1991	3687	3600
300253133	BONDURANT FEDERAL #05	Flagged		R32E	23D	S	430	E	I	EURLINGTON RESOURCES OIL; GAS COMPANY LP	F	D	7/1/1990	1/1/1993	3685	3600
3002531328	DOCHISE 1 FEDERAL #4	Flagged		R32E	23D	S	930	N	L	DEVON ENERGY OPERATING COMPANY LP	F	D	7/21/1992	7/11/1993	3690	3725
3002531308	NELLS 1 FEDERAL #6	Active	E	R32E	38D	N	630	N	C	FENFOLD OIL CORP	F	D		3/13/1993	3695	3724

Item VI(a): Construction of wells in the AOR that penetrate into the proposed Yates injection interval:

- 3002532431 Cimarex Energy Co. of Colorado Bondurant Federal #10 Unit B, 990' FNL & 1980' FEL Sec. 1, T19S-R32E, Lea Co. Elev 3,693' GL. Spud 3/13/1994. 12-1/4" hole set 8-5/8" 28# H-40 STC @620' w/360 sx cmt. Circ 157 sx. 7-7/8" hole set 5-1/2" 15.5# K-55 LTC @3,650' w/900 sx cmt. Circ 84 sx. TD 3,650'. Perf 3,408'-3,426' w/4 spf, 76 holes. Acid 1,000 gals 7.5% NEFE, Frac 184,000 gal XL gel + 65,000# 12/20 Brady sd. Completed IPF/day 50 BO, 35 MCFG/ 3 BW 4/3/1994.
- 3002540064 Cimarex Energy Co. of Colorado Querecho 36 State Com #1. OCD Unit D, 330' FNL & 400' FWL. Sec. 36, T18S-R32E, Lea Co. Elev 33731 GL. Location - not yet spudded. Lateral targeted for Unit P Sec. 36.
- 3002531349 Strata Production Company Paloma State #3 OCD Unit N, 330' FSL & 2310' FWL Sec 36, T18S-R32E, Lea Co. Elev 3,702' GL. Spud 9/7/1991. 12-1/4" hole set 8-5/8" J-55 24-32# @1,418' w/400 sx, circ 260 sx. Drilled 7-7/8" to TD 3,684'. Plug: 3,350'-3,250' w/35 sx, 2,785'-2,6-85' w/35 sx, 1,490'-1,390' w/35 sx, 30' plug w/15 sx @surface. P&A 9/16/1991.

Cimarex Energy Company
Bondurant Federal #10
990' FNL & 1980' FEL
Sec. 1, T19S-R32E Lea County, NM

API 30-025-32431

4. 3002531153 Strata Production Company Paloma State #1. OCD Unit O, 330' FSL & 1650' FEL Sec. 36, T18S-R32E, Lea Co. Elev 3710' GL. Spud 2/07/1991. 12-1/4" hole set 8-5/8" 24# 1,497' w/800 sx, circ 220 sx. 7-7/8" hole set 5-1/2" 15.5# LTC w/1500 sx TOC NR. Perf 3,361'-3,526' w/18 holes (OA). Acid 3,361'-3,365' w/600 gal 7.5%, Acid 3,462'-3,267' w/1500 gal 7.5%, Frac 3,524'-3,526' w/40,000 gal jel +57,700# 20/40 sand. IPP 83 BOPD + 23 BWPD 4/16/1991.

5. 3002531218 Cimarex Energy Company of Colorado Bondurant Federal #3, OCD Unit A, 580' FNL & 330' FEL Sec. 1, T19S-R32E, Lea Co. Elev 3697' GL. Spud 7/5/1991. 12-1/4" hole set 8-5/8" 28# 473' w/3,255 sx, circ 120 sx. 7-7/8" hole set 5-1/2" 15.5# @4,559' w/1,125 sx circ 130 sx. Perf 3,412'-3,478' (OA) w/44 holes. CIBP 3,360' +35' cmt. 25 sx plug @3,280', tagged @3,220'. 25 sx @3,220' tagged @3,026'. 45 sx @1,675', tagged @1,421'. 30 sx @1,421' tagged @1,191'. Plug @525'523'. 70 sx to surface. P&A 9/5/2010.

6. 3002532432 Cimarex Energy Company of Colorado Bondurant Federal #11, OCD Unit A, 990' FNL & 330' FEL Sec. 1, T19S-R32E Lea Co. Elev 3690' GL. Spud 3/8/1994. 12-1/4" hole set 8/5/8" 28# 616' w/370 sx, circulated. 7-7/8" hole set 5-1/2" 15.5# K-55 LTC @3,700' w/720 sx, circulated. Re-work IPP 2MCF +1.39 BO +1.19 BWPD 6/23/2010.

7. 3002531325 Cimarex Energy Company of Colorado Bondurant Federal #5, OCD Unit B, 330 FNL & 1950 FEL Sec 1, T19S-R32E Lea Co. Elev 3706' GL. Spud 7/16/1991. 12-1/4" hole set 8-5/8" 28# 608' w/450 sx, circ 110 sx. 7-7/8" hole set 5-1/2" 3,800' w/1050 sx, circ 110 sx. Perf 3,518'-3,539' w/2 SPF 44 holes. 110 gal 7.5% NEFe HCl, Frac 28,000 gal 35# x-link + 110,000# sand. CIBP @3,500' +25 sx cmt calc 3,300'. 25 sx @2,920' not tagged, 25 sx @ 2,920' tagged @2,890'. 50 sx cmt @2,890' tagged @2,690'. 55 sx cmt @1,365'. 80 sx cmt plug 708' - 3'. P&A 9/2/2010.

8. 3002531440 Cimarex Energy Company of Colorado Bondurant Federal #8, OCD Unit C, 990 FNL & 2310 FWL Sec 1, T19S-R32E Lea Co. Elev 3698' GL. Spud 11/8/1991. 12-1/4" hole set 8-5/8" 28# K-55 @605' w/400 sx, circ 100 sx. 7-7/8" hole set 5-1/2" 15.5# K-55 @3,700' w/750 sx cmt, circ 125 sx. Perf 3,496'-3,512' w/2 SPF 34 holes. Acid 1200 gal 7.5% HEFE. Frac 15,000 gal gel + 60,000# 20/30 sand. Completed 11/22/1991 IPP 177 BO, 75 MCFG, 282 BWPD.

9. 3002531627 Saber Oil & Gas Ventures, LLC Cochise 1 Federal #3, OCD Unit D, 990 FNL & 990 FWL Sec 1, T19S-R32E Lea Co. Elev 3697' GL. Spud 7/6/1992. 12-1/4" hole set 8-5/8" 24# K-55 STC @603' w/320 sx cmt circ 124 sx. 7-7/8" hole set 4-1/2" 10.5# K-55 STC @3700' w/2000 sx cmt, circ 149 sx. PBTD 3,657'. Perf 3,364'-3,460' w/27 shots. Acid 2500 gal 15% NEFE. Frac 56,000 gal gel + 148,000# 16/30 sand. IPP 88 BO, 431 MCFG, 66 BWPD.

10. 3002531604 Ralph C. Burton Chchise 1 Federal #1, OCD Unit E, 1650 FNL & 990 FWL Sec 1, T19S-R32E Lea Co. Elev 3694' GL. Spud 6/3/1992. 17-1/2" hole set 13-3/8" 32# K-55 STC 4,599' w/1550 sx cmt, circ 55 sx. 7-7/8" hole 11,370' set 5-1/2" 11,368' w/DV @7,705' w/910 sx, circ 200 sx, opened DV cmt w/753 sx, TOC 5,260' (Cimarex). Perf 11,104'-11,220' w/117 shots 0.41". CIBP 11,075' + 30' cmt. Perf 1 SP2F 8,833-39, 8,853-55, 8,908'-8,930' (18 holes), acid w/1900 gals 15% NEFe. Frac w/29,500 gal gel + 100,000# 20/40 Ottawa sand + 20,000# resin-coated sand. Perf 1 SP2F 8,598'-8,645' (OA) w/7 holes. Acid 8,598'-8,645' w/2000 gal 15% NEFe. Frac 8,598'-8,645' w/39,000 gal gel + 122,000# Ottawa sand + 28,000# resin-coated sand. CIBP 8,560' + 35' CMT. Perf 7,472'-7,500 w/50 holes (OA). Acid 7,542'-7,500 w/2,500 gal NEFe. CIBP 7,450' + 35' cmt. CIBP 7,450' + 35' cmt, tagged. 25 sx @5,482'-2,242'. 25 sx @ 4,672'-4,432'. 25 sx 2,678'-2,438', 45 sx 654'-222', 10 sx 60'-surface. P&A 3/13/2000.

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11. 3002531626 Saber Oil & Gas Ventures, LLC Cochise 1 Federal #2, OCD Unit E, 1650 FNL & 915' FWL Sec. 1, T19S-R32E Lea Co. Elev 3598 GL. Spud 8/6/1992. 12-1/4" hole set 8-5/8" 24# 598' w/300 sx, reported cmt to surface. 7-7/8" hole set 4-1/2" 10.5# 3,634' w/1,250 sx to surface. Perf 3,455'-3,472' w/18 shots .041". Acid 1,500 gal 15% NEFe. Frac 48,800# 16/30 sand + 18,000 gal gel. IPP 123 BO, 113 MCFG, 9 BWPD 8/24/1992.
12. 3002531439 Cimarex Energy Company of Colorado Bondurant Federal #9, OCD Unit F, 1650 FNL & 2210 FWL Sec 1, T19S-R32E Lea Co. Elev 3703' GL. Spud 11/15/1991. 12-1/4" hole set 8-5/8" 28# @600' w/400 sx, circ 100 sx. 7-7/8" hole set 5-1/2" 3,720' w/872 sx, circ 70 sx. Perf 3,560'-3,568' w/2 SP 18 holes, sqzd w/100 sx cmt. Perf 3,462'-3,482' w/2SPF, 44 holes. 3,560'-3,568' Acid 1,200 gal 7.5% NEFe. Acid 3,461'-3,482' w/1,200 gal 7.5% NEFe. Frac w/18,000 gal 35# gel +81,700# 20/40 NW sand. IPF 143 BO, 107 MCFG, 70 BWPD 12/17/1991.
13. 3002531326 Cimarex Energy Company of Colorado Bondurant Federal #7, OCD Unit G, 1650 FNL & 1900 FEL Sec 1, T19S-R32E Lea Co. Elev 3694' GL. Spud 8/12/1991. 12-1/4" hole set 8-5/8" 28# @606' w/400 sx, circ 105 sx. 7-7/8" hole set 5-1/2" 15.5# @3,740' w/1,100 sx. PBTD 3,680'. TOC NR. Perf 3,484'-3,502' w/38 holes. Acid 1,200 gal 7.5%. Frac w/10,000 gal gel +40,400# 20/40 sand. IPF 222 BO 436 MCFG, 302 BWPD 8/31/1991.
14. 3002530972 Cimarex Energy Company of Colorado Bondurant Federal Com. #2, OCD Unit H, 1650 FNL & 330 FEL, Sec 1, T19S-R32E Lea Co. Elev 3687' GL. Spud 9/4/1990. 12-1/4" hole set 8-5/8" 24# K-55 STC @1515' w/700 sx, circ 200 sx. 7-7/8" hole set 5-1/2" 17# K-55 LTC @9,100' w/2,150 sx 2-stage DV@3,797', circ 10 sx. Perf 8,750;-8,850' (OA) w/106 shots. Acid 2,500 gal NEFe. Frac 45,400 gal gel +156,000# 20/40 sand. IP 42 BO, 44 MCFG, 231 BWPD 10/23/1990.
15. 3002531192 Cimarex Energy Company of Colorado Bondurant Federal #4, OCD Unit H, 1980 FNL & 330 FEL, Sec 1, T19S-R32E Lea Co. Elev 3687' GL. Spud 3/20/1991. 12-1/4" hole set 8-5/8" 28# K-55 STC @454' w/300 sx, circ 105 sx. 7-7/8" hole set 5-1/2" 15.5# K-55 STC @3,800' w/760 sx. Not circ. Perf 3,494'-3,514' w/84 shots. Acid 1,000 gal 7.5% NEFe, Frac 23,600 gal gel + 52,900# sand. IP 110 BO, 30 MCFG, 270 BWPD 4/11/1991.
16. 3002531331 Burlingon Resources O&G Co. LP Bondurant Federal #6, OCD Unit I, 2310 FSL & 430 FEL Sec 1, T19S-R32E, Lea Co. Elev 3685 GL. Spud 7/23/1991. 12-1/4" hole set 8-5/8" 24# K-55 STC @605' w/475 sx, circ 110 sx. 7-7/8" hole to 3,800'. Hole problems. Logged hole. 120 sx plug 3,700' tagged @3,327'. Set plug 2,820'-3,000', 1,620'-1,720', surface-655' (sx cmt not reported), P&A 8/3/1991 witnessed by BLM.
17. 3002531628 Devon Energy Operating Co. LP, Cochise 1 Federal #4, OCD Unit L, 2310 FSL & 990 FWL Sec 1, T19S-R32E, Lea Co. Elev 3690' GL. Spud 7/14/1992. 12-1/4" hole set 8-5/8" 24# K-55 STC @625' w/320 sx, circ 79 sx. 7-7/8" hole to TD 3,725', unable to log below 3,199'. Plug 125 sx 3,199'-2,880', tagged. Plug 1,398'-1,1198' w/85 sx. Plug 35 sx 684'-580', tagged. Plug 35 sx 60'-surface. P&A 7/24/1992
18. 3002531608 Penroc Oil Corp. Nellis Federal #6, OCD Unit D, 990 FNL & 660 FWL Sec. 6, T19S-R33E, Lea Co. Elev 3695' GL. Spud 6/19/1992. 12-1/4" hole set 8-5/8" 32# K-55 @450' w/300 sx, circ 66 sx. 7-7/8" hole set 3,724' 5-1/2" 15.5# K-55 @3,724' w/1,150 sx, circ 230 sx. Perf 3,504'-3528' w/4 JSPF. IPP 22 BO, 65 MCFG, 11 BWPD 8/12/1992

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Item VII:

1. The maximum injected volume anticipated is 10,000 BWP. Average anticipated is 8,000 BWP.
2. Injection will be through a closed system.
3. Maximum injection pressure is expected to be 672 psi.
4. Sources will be produced water from this and adjacent Cimarex leases. These waters will be compatible with waters in the disposal zone.
5. Water sample analysis from the Cimarex Bondurant Fed. #9, F-Sec 1, T19S-R32E Lea Co.

 Martin Water Laboratories, Inc.

P. O. BOX 1468
 MONAHAN TEXAS 79756
 PH 943-3234 OR 563-1040

709 W INDIANA
 MIDLAND TEXAS 79701
 PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. David Cook LABORATORY NO. 129170
P. O. Box 51810, Midland, TX 79710 SAMPLE RECEIVED 12-6-91
 RESULTS REPORTED 12-16-91

COMPANY Meridian Oil Company LEASE Bondurant #9
 FIELD OR POOL _____
 SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE NM
 SOURCE OF SAMPLE AND DATE TAKEN
 NO. 1 Produced water - taken from Bondurant #9.
 NO. 2 _____
 NO. 3 _____
 NO. 4 _____

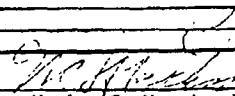
REMARKS: Yates "C" Sand

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 40° F.	1.1038			
pH When Sampled				
pH When Received	5.12			
Bicarbonate as HCO ₃	415			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	21,600			
Calcium as Ca	4,400			
Magnesium as Mg	2,576			
Sodium and/or Potassium	50,092			
Sulfate as SO ₄	2,867			
Chloride as Cl	90,194			
Iron as Fe	36.8			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	150,544			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
Hydrogen Sulfide	0.0			
Resistivity, ohms/m at 77° F.	0.070			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Total Dissolved Solids @ 180°C.	153,444			

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks We are not familiar with the field or location of this well in order to accomplish a good comparison with what we would expect from natural Yates. Yates varies substantially in Lea county in both ratios and levels of salts. If we can be of any additional assistance with more information, please contact us.

Form No. 3

By 
 Waylan C. Martin, M.A.

Cimarex Energy Company
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Item VIII:

The Yates Formation is comprised of interbedded sandstones, shales, dolomites and anhydrite. The sandstones are typically isolated within the formation, and from formations above and below, by the very-low vertical transmissivity of the bounding shales and anhydrites. This is also demonstrated by highly variable water productivity within the sandstones of the Yates between different wells in the field.

A search of the records of the NM Office of the State Engineer disclosed no known domestic or potable water wells within the 2-mile radius of the proposed disposal/injection.



New Mexico Office of the State Engineer
Wells with Well Log Information

No wells found

Basin/County Search:

Basin: Lea County

UTMNA83 Radius Search (in meters):

Easting (X): 620256

Northing (Y): 3617892

Radius: 3300

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

5/17/11 11 29 AM

Page 1 of 1

WELLS WITH WELL LOG INFORMATION

The surface geology of the greater area, including the 2-mile radius as shown in Item V above, is Quaternary eolian and piedmont deposits of Holocene to middle Pleistocene age. These are underlain by the Permian Rustler Formation and some evaporites. The top of the salt is locally reported at 1,680' and the base of the main salt is 2,800'. The top of the Yates Formation of the Artesia Group is at 3,345'. Locally the Yates Formation is about 270' thick and is underlain the Seven Rivers Formation and other formations of the Artesia Group.

Item IX:

The formation was originally acidized and fractured as described above in Item XI (a) 1. Additional treatment/fracturing may occur after initial testing.

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Item X:

Logs are on file with the OCD.

Item XI:

No commercial, domestic, or stock water wells are reported in the 2-mile area. Please note Item VIII discussion above.

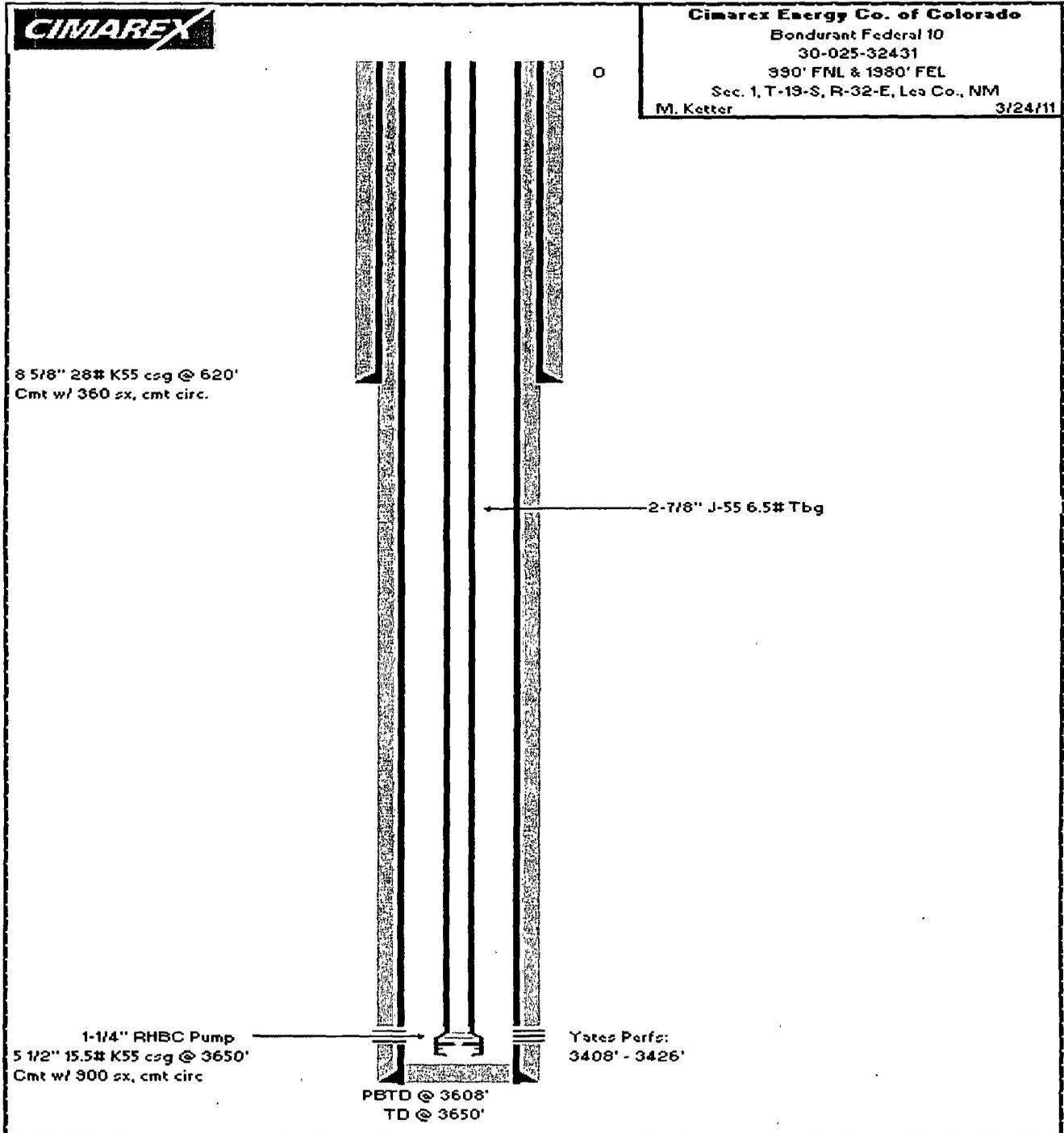
Item XII:

There is no geological evidence of open faults nor hydrologic connection between the disposal zone and any possible underground sources of protectable water.

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Present status of Cimarex Energy Co. Bondurant Federal #10 proposed SWD

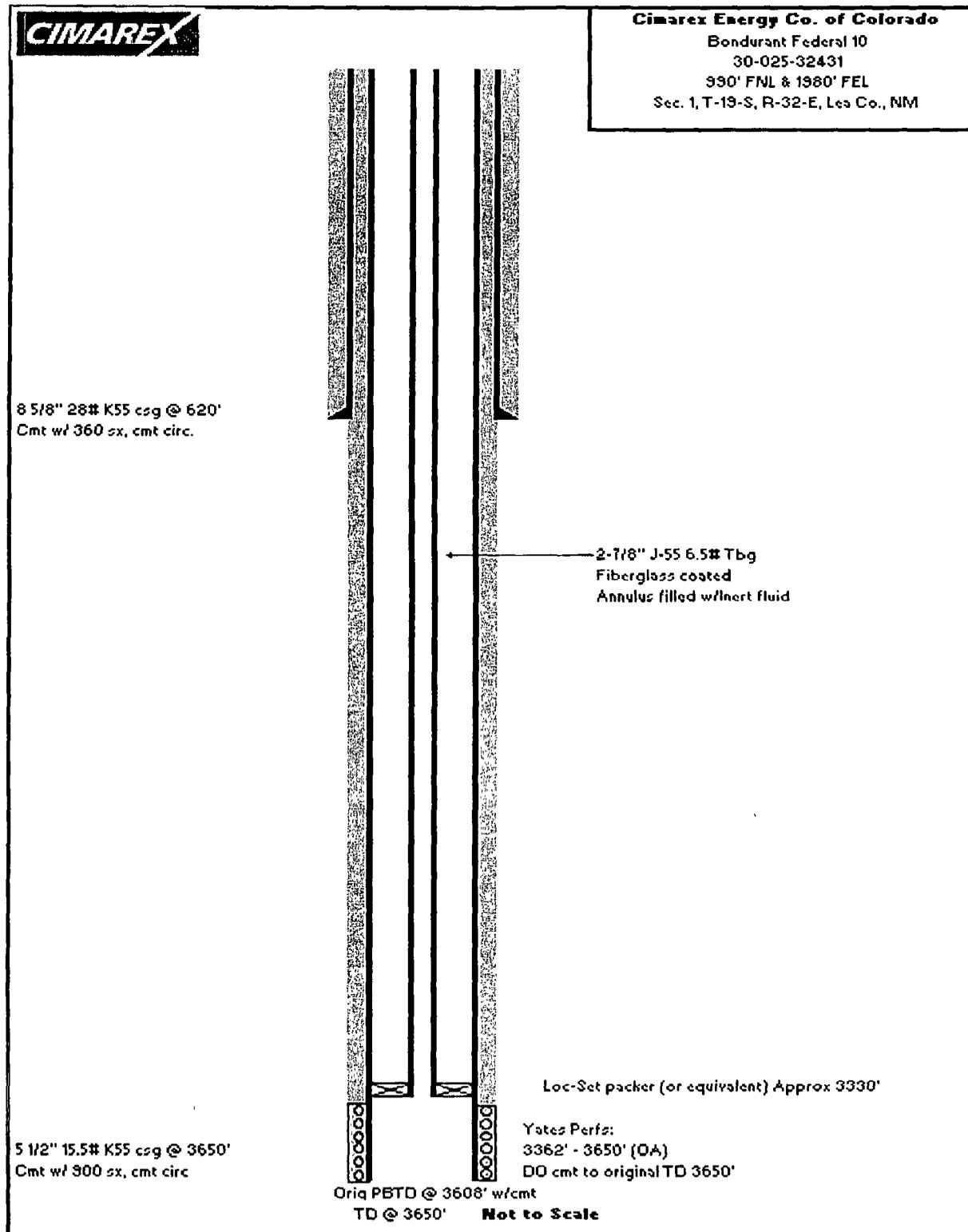


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Proposed SWD completion Cimarex Energy Co. Bondurant Federal #10

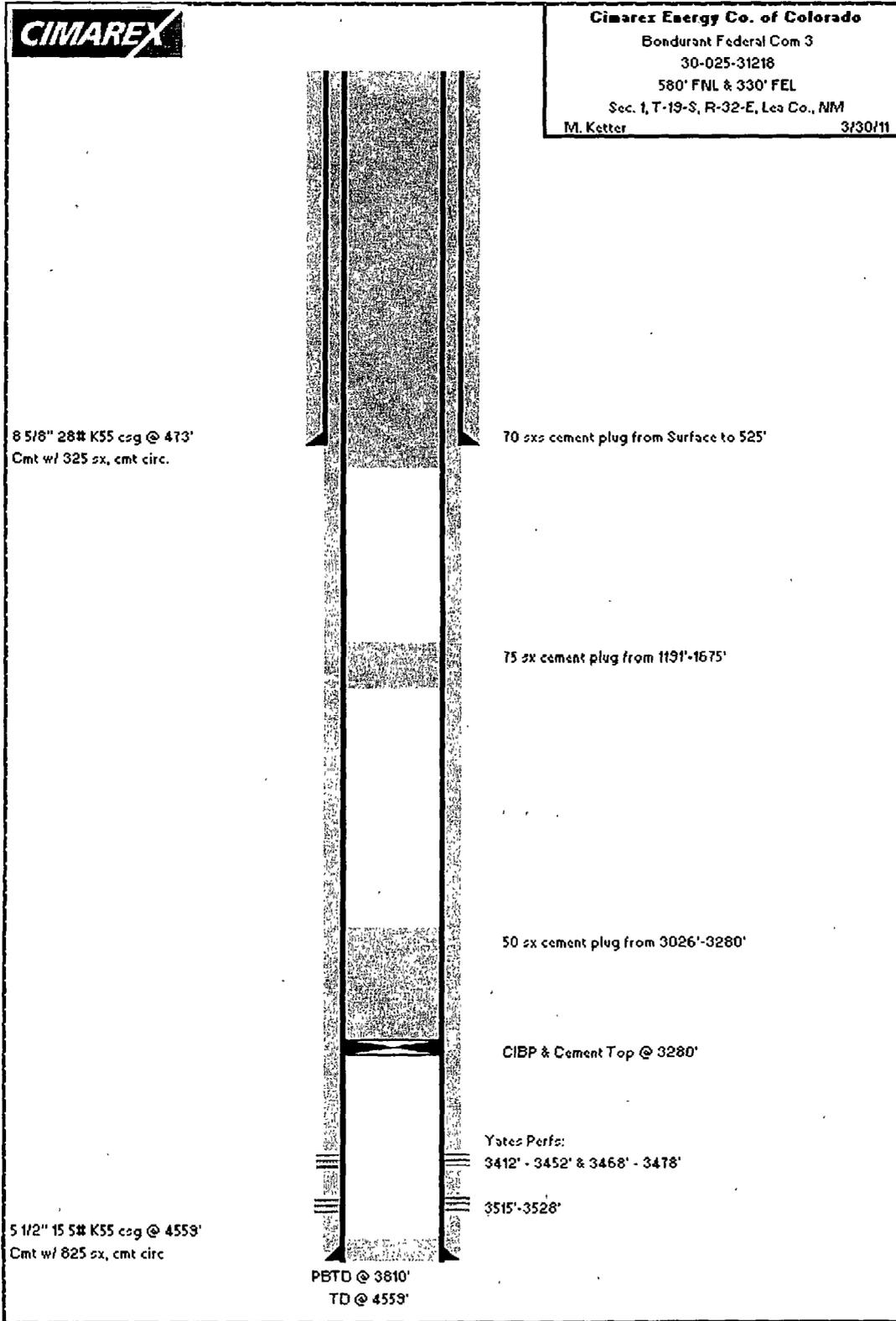


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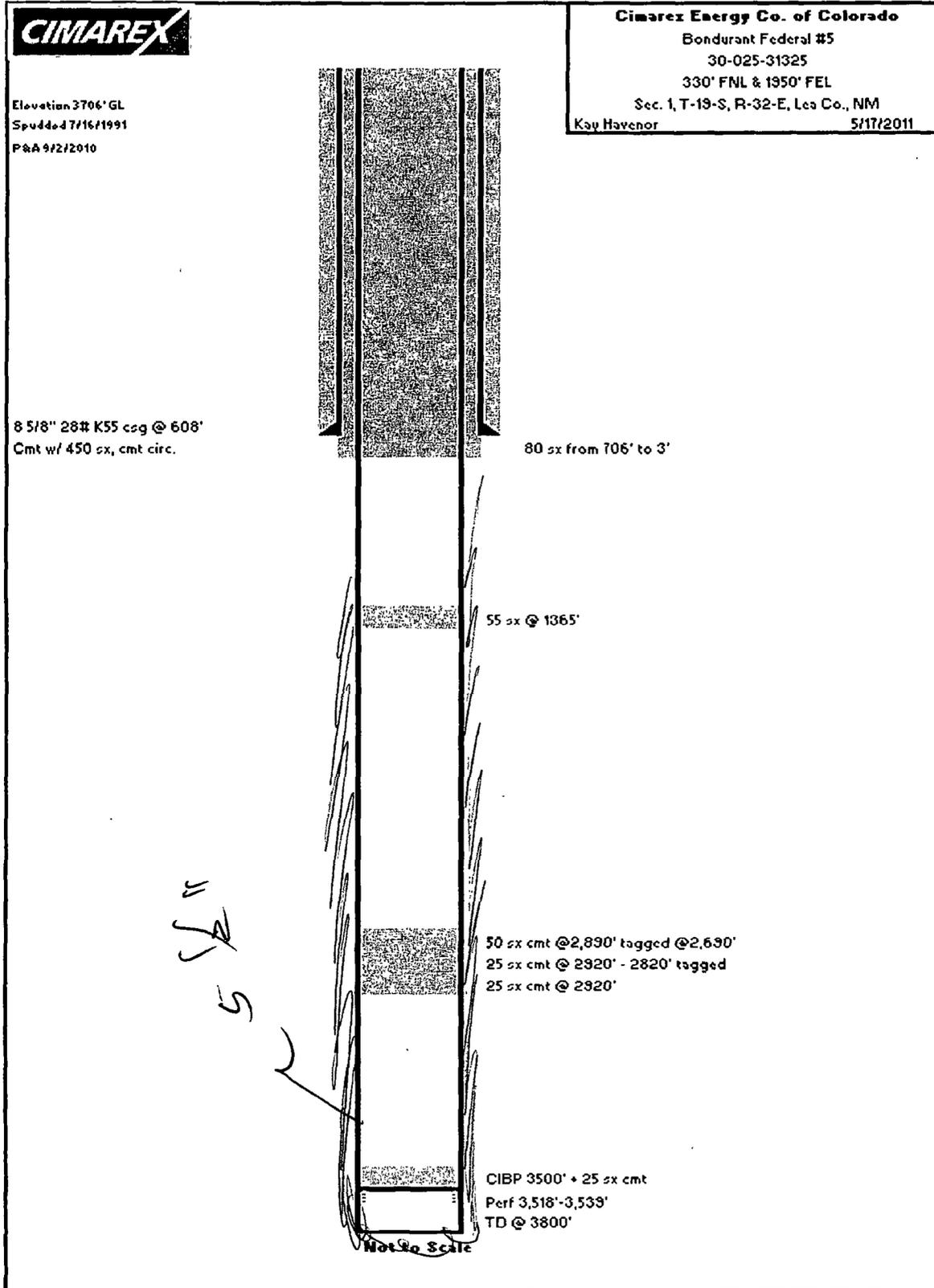
P&A Diagram Cimarex Energy Co. Bondurant Federal #3



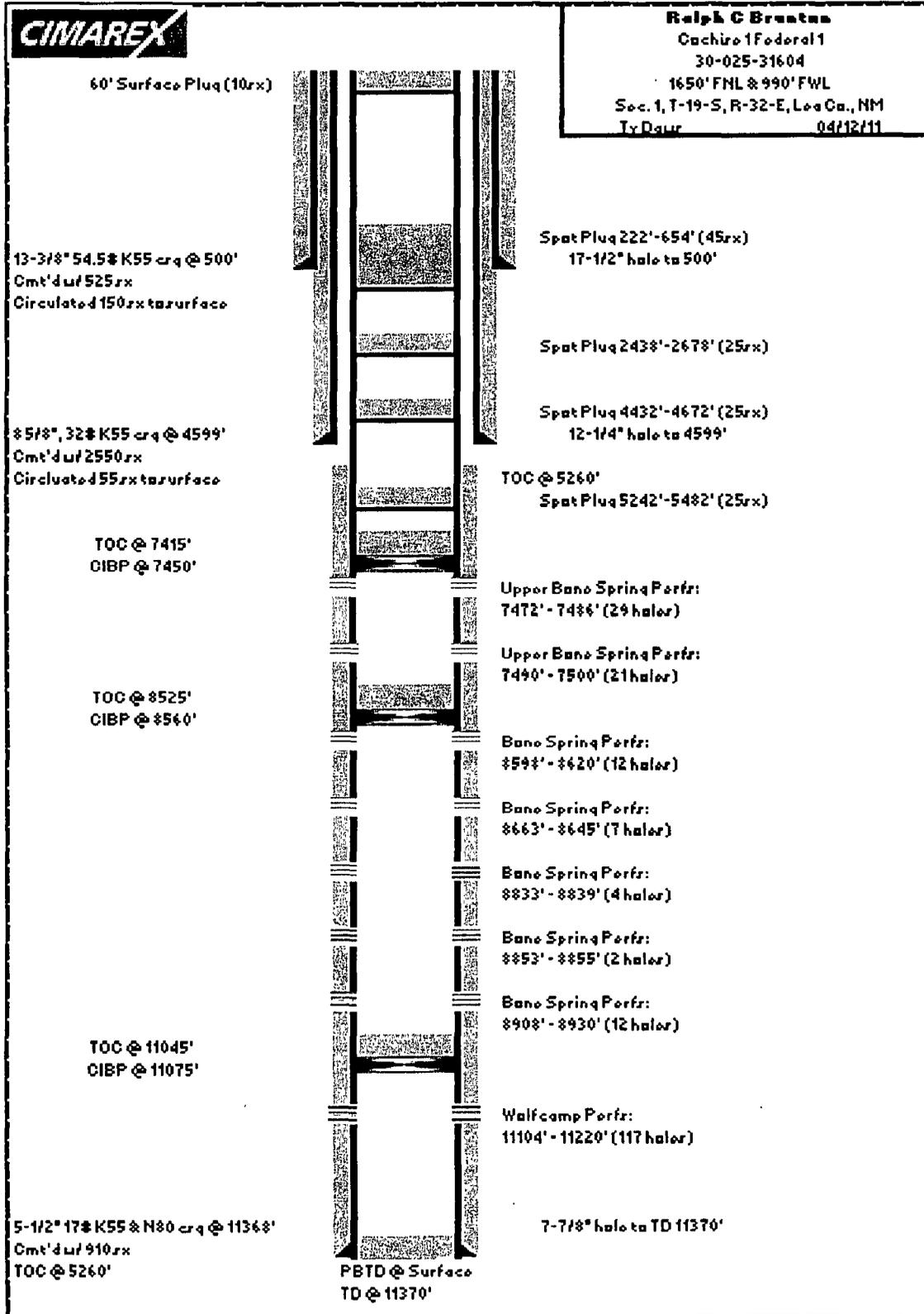
Cimarex Energy Company
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P&A Diagram Cimarex Energy Co. Bondurant Federal #5



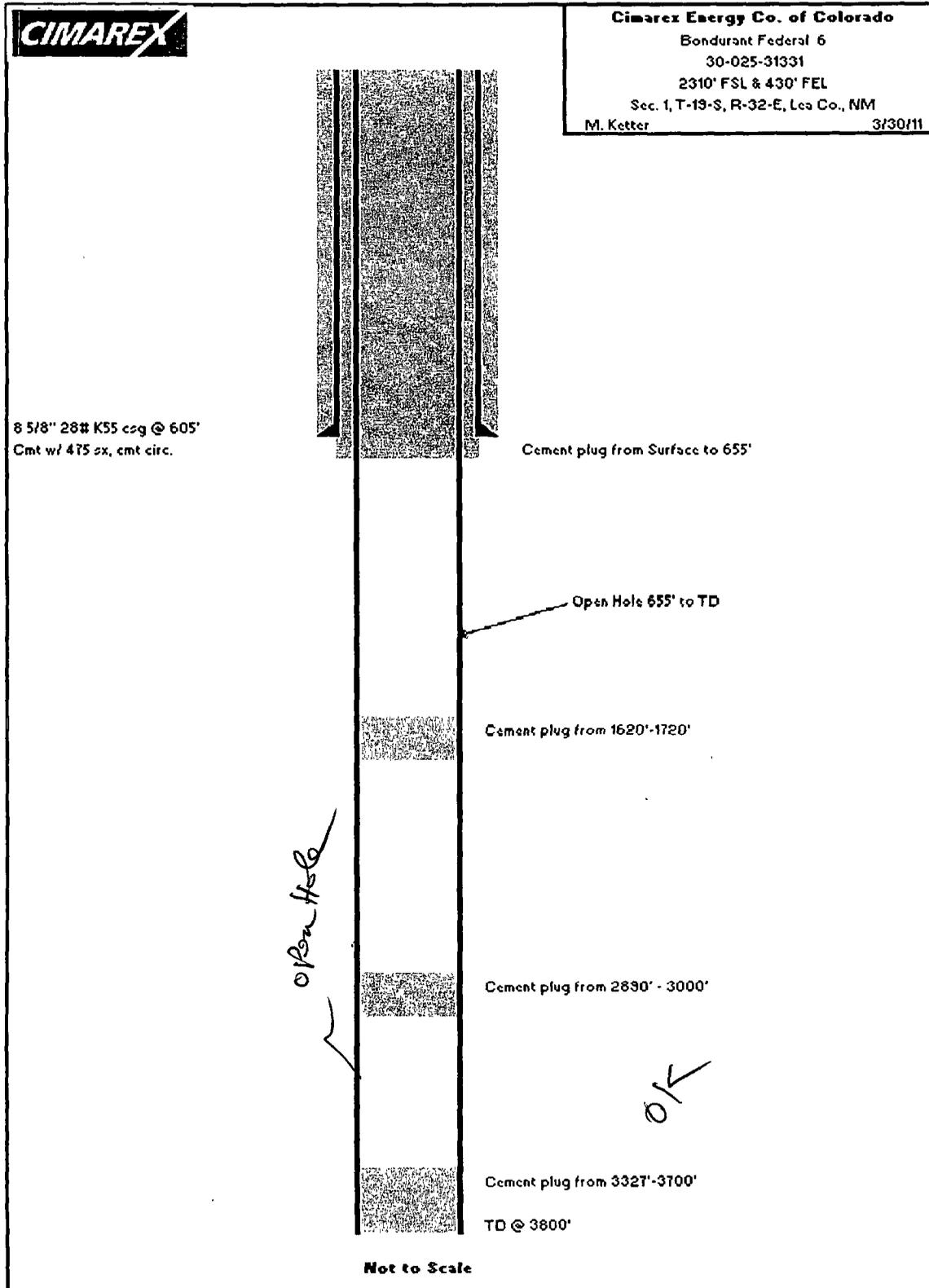
P&A Diagram Ralph C. Burton Cochise 1 Federal #1



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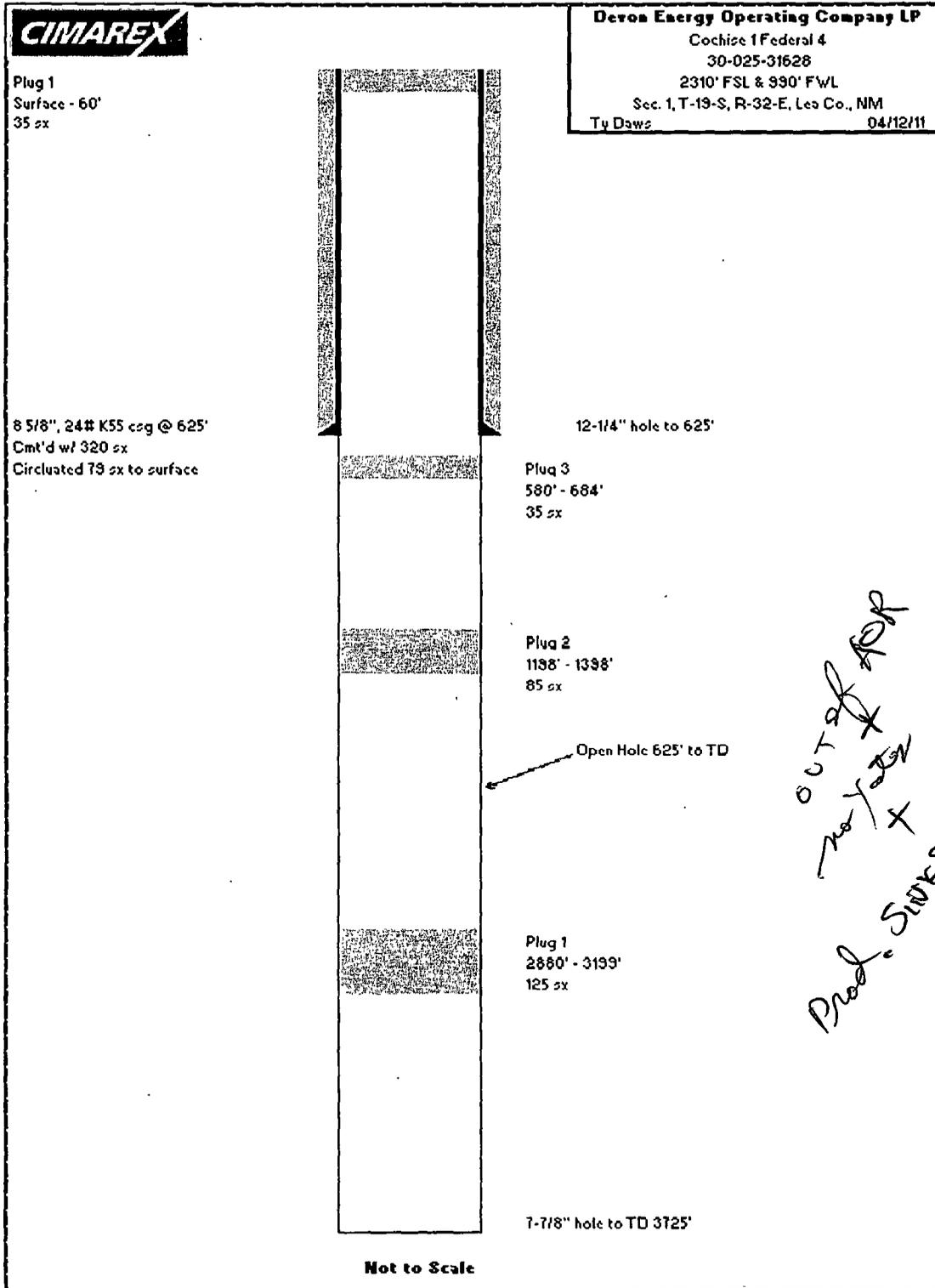
P&A Diagram Cimarex Energy Company Bondurant Federal #6



Cimarex Energy Company
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P&A Diagram Devon Energy Operating Co. Cochise 1 Federal #4



Cimarex Energy Company
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SPOT10 Satellite and Matching Topographic Map



Directions to location: From the intersection of CR-248 and CR-126A proceed east for 5.16 miles, then north for 2.1 miles onto a large drill pad, then north-northwest for 0.4 miles to the Bondurant Federal #10 pad.

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Cimarex Energy Company
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Item XIII:

Minerals Owner:

Bureau of Land Management
620 E. Greene St.
Carlsbad, NM 87220

Operators for Notification:

Penrock Oil Corporation
P.O. Box 2769
Hobbs, NM 88241

Saber Oil & Gas Ventures, LLC
400 W. Illinois, Ste. 950
Midland, TX 79701

Strata Production Company
P.O. Box 1030
Roswell, NM 88202-1030

Surface Lessee:

Salt Lake Allotment Operator
Kenneth Smith, Inc.
267 Smith Ranch Road
Hobbs, NM 88240

PROPOSED ADVERTISEMENT

Case No. 14676:

Application of Cimarex Energy Co. of Colorado for approval of a secondary recovery project, and to qualify the project for the recovered oil tax rate, Lea County, New Mexico. Applicant seeks approval of a lease secondary recovery project in the Yates formation (Buffalo-Yates Pool) by the injection of produced water into the Yates formation in the Bondurant Fed. Well No. 10, an existing well located 990 feet from the north line and 1980 feet from the east line of Section 1, Township 19 South, Range 32 East, N.M.P.M. The project, to be called the Bondurant Federal Secondary Recovery Project, will encompass the following described federal lands: E/2, E/2NW/4, and NE/4SW/4 of Section 1, Township 19 South, Range 32 East, N.M.P.M. Applicant further seeks to qualify the project for the recovered oil tax rate pursuant to the "New Mexico Enhanced Oil Recovery Act" (Laws 1992, Chapter 38, Sections 1-5). The project area is centered approximately 12-1/2 miles north-northeast of where U.S. Highway 62/180 intersects the Eddy County/Lea County border.

RECEIVED OCD
2011 MAY 25 P 12: 59