12/7/12		WOSS		SWD 1384	pMAJ 1301372828

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

RECEIVED OCD
2012 DEC 17 A 11:2

ABOVE THIS LINE FOR DIVISION USE ONLY

ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

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

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

CIMAREX E, Co. of Colo.
162683
4792-7136' Perfs
Bell Canyon
PADUCA AIU Federal #1
F/14/25S/32E
30-025-31177

[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 **X** 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] **X** Offset Operators, Leaseholders or Surface Owner

[C] **X** Application is One Which Requires Published Legal Notice

[D] **X** Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

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

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

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

Kay Havenor	Kay C Havenor	Consultant	12/8/2012
Print or Type Name	Signature	Title	Date

KHavenor@georesources.com
e-mail Address

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____Secondary Recovery _____Pressure Maintenance __X__Disposal _____Storage
Application qualifies for administrative approval? __X__Yes _____No

II. OPERATOR: Cimarex Energy Co. Of Colorado

ADDRESS: 600 N. Marienfeld St. Ste 600, Midland, TX 79701

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 __X__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: Agent

SIGNATURE: Kay Havenor DATE: 12/6/2012

E-MAIL ADDRESS: KHavenor@georesources.com 575-626-4518

* 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.

Side 1

INJECTION WELL DATA SHEET

OPERATOR: Cimarex Energy Co. of Colorado OGRID 162383

WELL NAME & NUMBER: Paduca AIU Federal #1 30-025-31177

WELL LOCATION: 2310' FNL & 1650' FWL | F | 14 | 25S | 32E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

See attached well diagram

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17-½" Casing Size: 13-⅜" 54.5#

Cemented with: 800 sx. ***or*** _____ ft³

Top of Cement: Surface Method Determined: Circulated

Intermediate Casing

Hole Size: 11" Casing Size: 8-5/8" 54.5#

Cemented with: 1450 sx. ***or*** _____ ft³

Top of Cement: Surface Method Determined: _____

Production Casing

Hole Size: 7-7/8" Casing Size: 5-1/2" 15.5/17#

Cemented with: 990 sx. ***or*** _____ ft³

Top of Cement: 3950' Method Determined: Operator

Injection Interval

Perforated 4,970' - 7,136'

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 3-1/2" 12.8# Integral J-55 Lining Material: Fiberglass coated

Type of Packer: Lok-Set (or equivalent)

Packer Setting Depth: Approx 4,742 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? Delaware test

2. Name of the Injection Formation: Delaware Bell Canyon Fm and Cherry Canyon Fm.

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

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. Yes, see pages 7 and 12

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Productive and depleted wells west in overlying Bell Canyon.

Cimarex Energy Co. Paduca AIU Federal #1 API 30-025-31177
2310' FNL & 1650' FWL
Sec. 14, T25S-R32E
Lea County, NM

Plugging diagram of Yates Pertroleum Paduca AU Federal #1

Plug and Abandon Diagram

API: 3002531177
Operator: Yates Petroleum Corp.
Lease: Paduca AIU Federal Well No: 1 KB: 3472
Location: Sec 14, T25S-R32E Lea Co., NM GL: 3454
Footage: 2310 FNL, 1650 FWL

Surface Csg

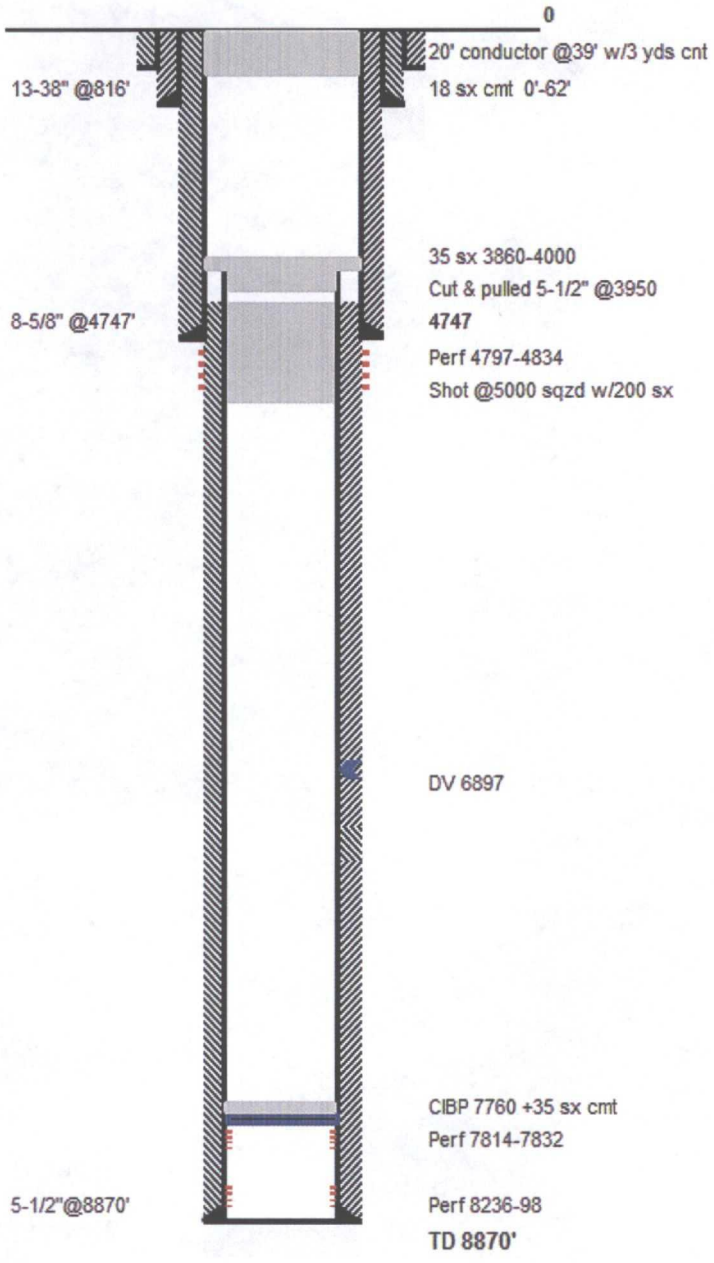
Size:	13-3/8" 54.5# J-55
Set @:	816
Sxs cmt:	800
Circ:	Yes
TOC:	Surface
Hole Size:	17-1/2"

Intermediate Csg

Size:	8-5/8" 32# J-55/N-80
Set @:	4747
Sxs cmt:	1450
Circ:	75 sx
TOC:	Surface
Hole Size:	11"

Production Csg

Size:	5-1/2" 15.5/17# J-55 LTC
Set @:	8870
Sxs cmt:	990
Circ:	NR
TOC:	3950 (Operator)
Hole Size:	7-7/8"



Not to Scale

Cimarex Energy Co. Paduca AIU Federal #1
2310' FNL & 1650' FWL
Sec. 14, T25S-R32E
Lea County, NM

API 30-025-31177

Proposed Completion of Cimarex Energy Co. Paduca AU Federal #1

PROPOSED COMPLETION

API: 3002531177
Operator: Cimarex Energy Co.
Lease: Paduca AIU Federal
Location: Sec 14, T25S-R32E Lea Co., NM
Footage: 2310 FNL, 1650 FWL

Well No: 1

KB: 3472
GL: 3454

Surface Csg

Size:	13-3/8" 54.5# J-55
Set @:	816
Sxs cmt:	800
Circ:	Yes
TOC:	Surface
Hole Size:	17-1/2"

Intermediate Csg

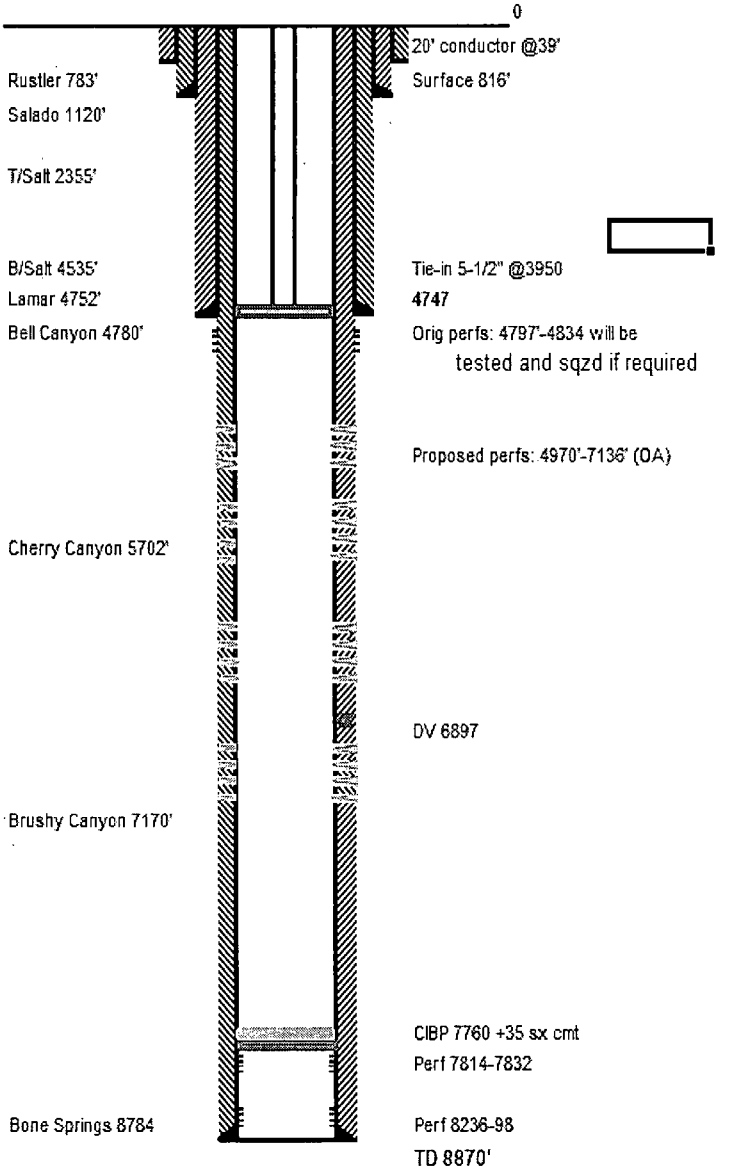
Size:	8-5/8" 32# J-55/N-80
Set @:	4747
Sxs cmt:	1450
Circ:	75 sx
TOC:	Surface
Hole Size:	11"

Production Csg

Size:	5-1/2" 15.5/17# J-55 LTC
Set @:	8870
Sxs cmt:	Orig 990 + 700 tie-in
TOC:	Surface
Hole Size:	7-7/8"

Tubular requirements (made-up):
4742' 3-1/2" J-55 intergral Fiberglass lined
Lok-Set (or equivalent) Packer set approx 4742'

Acidized selectively
Load tubing annulus w/corrosion inhibitor
Complete surface head for disposal



Not to Scale

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: NM 15680

6. If Indian, Allottee or Tribe Name: N/A

7. If Unit or CA, Agreement Designation: N/A

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: Paduca AIU Federal #1

2. Name of Operator: YATES PETROLEUM CORPORATION

9. API Well No.: 30-025-31177

3. Address and Telephone No.: 105 South 4th St., Artesia, NM 88210 (505) 748-1471

10. Field and Pool, or Exploratory Area: Paduca Delaware

4. Location of Well (Footage, Sec., T., R., M., or Survey Description): 2310' FNL & 1650' FWL, Sec. 14-T25S-R32E

11. County or Parish, State: Lea County, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other Production Csg, Perforate & Treat	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

TD 8870'. Reached TD 5-2-91. Ran 205 joints 15.5# and 17# J-55 casing set at 8870 as follows: 48 jts 17# J-55 LT&C, 123 jts 15.5# J-55 LT&C, 34 jts 17# J-55 LT&C. Float shoe set 8868', ECP 6921' and DV tool set 6897'. Cemented w/440 sx "H" w/5#/ CSE + .7% CF-14 + 10# Gilsonite (yield 1.46, wt 14.5) followed by 450 sx Super "H" w/3% salt (yield 2.3, wt 11.5). Tailed in w/100 sx "H" Neat (yield 1.18, wt 15.6). PD 10:00 PM 5-2-91. Bumped plug to 2500 psi for 15 mins, float and casing held OK. WOC 18 hrs. Drill out DV tool and ECP and cleanout to float collar w/2% KCL. Perforated 8236-8298' w/22 - .40" holes (1 SPF) as follows: 8236, 41, 45, 48, 51, 56, 58, 70, 72, 79, 81, 83, 84, 86, 88, 89, 90, 92, 93, 94, 96, and 8298'. Acidized perforations 8236-98' w/4000 gals 7½% NEFE acid and 40 ball sealers.

ACCEPTED FOR RECORD
MAY 23 1991
CARLSBAD, NEW MEXICO

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

Signed Juanita Goodlett Title Production Supervisor Date 5-14-91

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

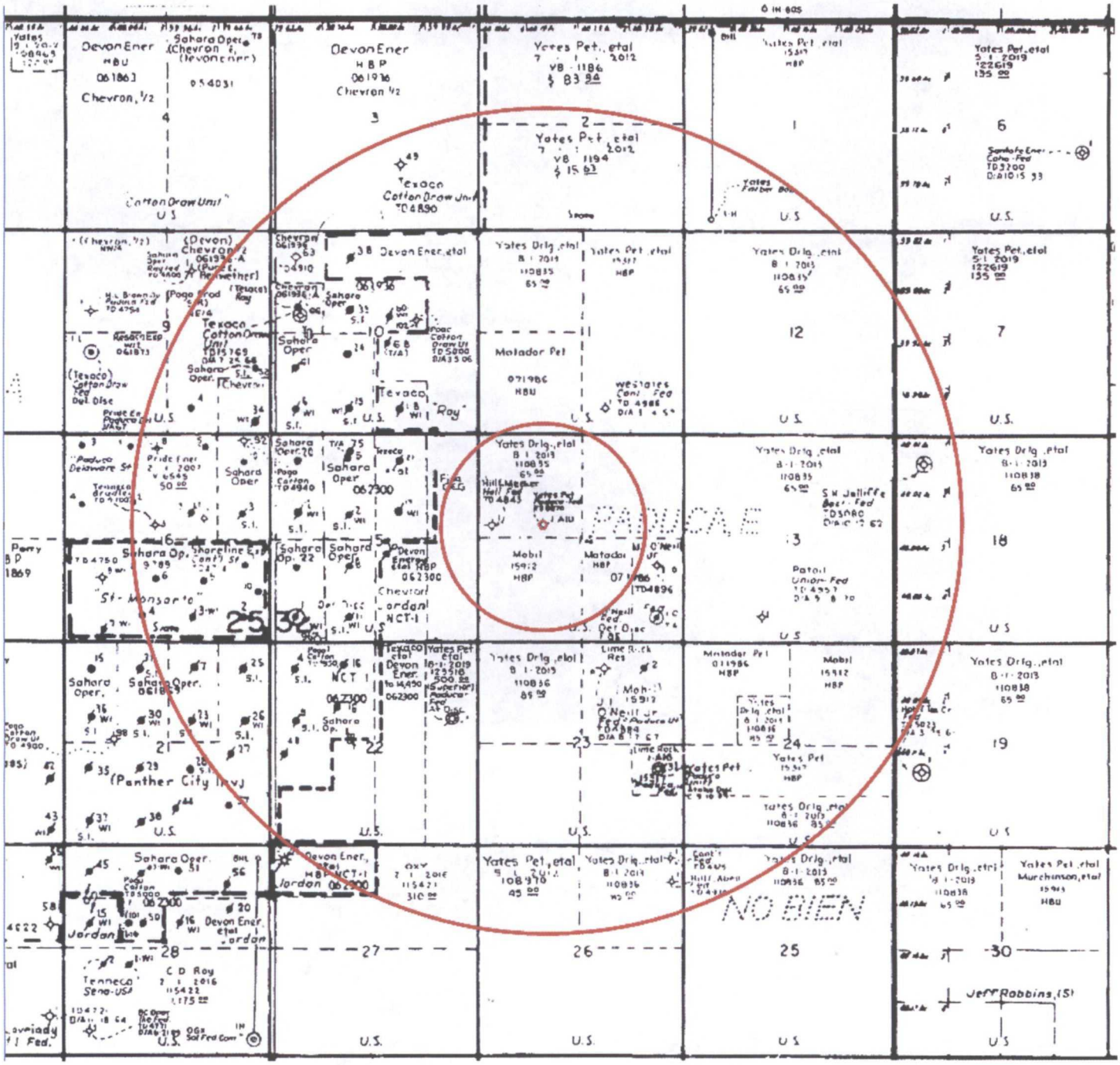
See Instruction on Reverse Side

Cimarex Energy Co. Paduca AIU Federal #1
2310' FNL & 1650' FWL
Sec. 14, T25S-R32E
Lea County, NM

API 30-025-31177

Item V:

Area of Review
½ Mile AOR and 2 Mile Radius



Item VI: Data on wells in AOR.

All wells in AOR that penetrate the proposed disposal interval:

API	WELL_NAME	STATUS	SDIV	SEC	TWN	RANGE	FTG	NS	FTG	EW	OCD	OPERATOR	WELL	LAND	PLUG_DATE	SPUD_DATE	ELEVGL	TVD_DEPTH
3002508181	ORA HILL 14 FEDERAL 001	Plugged	E	14	25.0S	32E	2310 N		330 W		E	HILL & MEEKER	O	F	04-Dec-60	24-Nov-60	3447	4845
3002531177	PADUCA AIU FEDERAL 001	Plugged	F	14	25.0S	32E	2310 N		1650 W		F	YATES PETROLEUM CORP	O	F	30-Sep-91	7-Apr-91	3454	8870

Item VI(a): Construction of wells in the AOR that penetrate the proposed disposal zone and all known wells in AOR:

1. 30-025-31177 Yates Petroleum Corp AIU Federal #1, Unit H-Sec. 14-T25S-R32E GL 3454'. Spudded 4/7/1991. 26" hole set 39' of 20" conductor w/3-½ yds Redi-Mix. 17½" hole set 13⅜" 54.5# J-55 @816' w/800 sx circ 83 sx to surface. 11" hole set 8⅝" 32# J-55 @4,747' w/1450 sx, circ 75 sx. 7-⅞" hole set 5-½" 15.5# J-55 @8,870' w/990 sx. TD 8870.Perf 8,236-8,298' w/22 shots 0.40". Acid w/4000 gal. Perf 7814-7,832 (OA) Acid 3000 gal 7.5%. CIBP @7,760' +35' cmt. Perf 4 shots 0.50" @5,000' w/retainer @ 4950' squeezed w/ 200 sx cmt. Perf 4,797-4,834' w/10 shots 0.50". Acid w/2500 gal 7.5%. Swabbed well. No show last 2 runs. 9/25/1991 Plug 4,803-4,449' w/35 sx Class "C". Cut 5-½" @3,950' and pulled. Set 35 sx 3,860-4,000'. Set 18 sx 0-62'. P&A 9/30/1991.

2. 30-025-08181 Hill & Meeker Ora Hill 14 Federal #1, Unit E, Sec. 14-T25S-R32E GL 3447. Spudded 11/24/1960.Set 8⅝" 24# J-55 @354' w/275 sx, circ to surface. Drilled to TD 4845'. Core #1 4750'-73, DST 4753-73' recovered 290' gas cut wtr + 110' very slightly oil cut mud. Core #2 4773-92', DST 4774-92' recovered 250' gas +250' gas & wtr cut mud w/very slight oil cut +50 ft muddy SW. Core #3 4792-4843' No shows to encourage completion. P&A w/25 sx cmt @4760', 20 sx cmt @3480 (T/salt), 20 sx cmt @ 1140' (base of Rustler), 20 sx cmt @ 780' (T/Rustler), 20 sx cmt @360' (base surf csg). 10 sx cmt @ surface. P&A 12/4/1960.

Cimarex Energy Co. Paduca AIU Federal #1 API 30-025-31177
2310' FNL & 1650' FWL
Sec. 14, T25S-R32E
Lea County, NM

Plugging diagram of Hill & Meeker Ora Hill 14 Federal #1

WELL P&A DIAGRAM

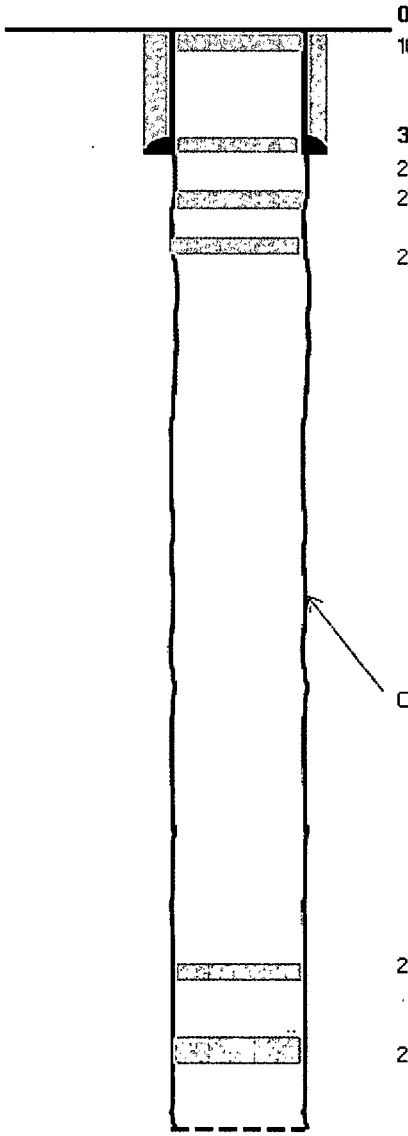
API: 3002508181
Operator: Hill & Meeker
Lease: Ora Hall 14 Federal #1 Well No: 1
Location: Sec 14, T25S-R32 Lea Co., NM
Footage: 2310' FNL & 330' FWL

KB: 3455
GL: 3447
Spud date: November 24, 1960
Plugged date : December 4, 1960
MSL of TD: -1390

Surface Csg
Size: 8-5/8" 24# J-55
Set @: 364
Sxs cmt: 275
Circ: Yes
TOC: Surface
Hole Size: NR

Intermediate Csg
Size: None
Set @:
Sxs cmt:
Circ:
TOC:
Hole Size:

Production Csg
Size: None
Set @:
Sxs cmt:
Circ:
TOC:
Hole Size: 7-7/8"



Not to scale

Item VII:

1. The maximum injected volume anticipated is 5,000 BWPD. Average anticipated is 3,500 BWPD.
2. Injection will be through a closed system.
3. Maximum injection pressure is expected to be 958 psi.
4. Sources will be produced water. These will be compatible with known waters in the disposal zones.
5. Water sample analysis from the Pogo Cotton Draw Unit No. 24, Unit K, Sec. 10, T25S-R32E, Lea Co., is shown below, TDS 153,651 mg/l (Source: NM WAIDS):

NM WAIDS

DATA MAPS HOME SCALE CORROSION

Water Samples for Well COTTON DRAW UNIT 024
API = 3002508176
Formation = DEL
Field = PADUCA

Instructions:

Click — For general information about this sample.

Click — For scale calculation pages (Stiff-Davis or Oddo Tomson methods).

Click — To select this water sample for water mixing. It will lead to the main page, and add the sample ID to the mixing table.

Click 664 — Click the hyperlinked sample number to make a .csv for that sample, or select several check boxes and click Submit for multiple samples

The ions are in (mg/L) units.

	SampleID	T	R	S	SO4	CL	CO3	HCO3	K	Na	Ca	Mg
☑	4392	25S	32E	10	939	152600	null	112	null	null	null	null

☐ SELECT/DESELECT ALL

Submit

New Mexico Tech PRRC

Disposal water into this well will be chemically compatible with those in the proposed disposal interval.

Item VIII:

Disposal will be into the Delaware Mountain Group (Bell Canyon and Cherry Canyon Formations). The Delaware is comprised of predominately sandstones and shales. All the Delaware members are interbedded sandstones and shales with occasional dolomite horizons. The lateral transmissivities of the sandstone beds are highly variable and often form selective barriers to the movement of hydrocarbons while allowing down-gradient movement of water. The transmissivity variations are fundamentally due to 1) the very-fine grained nature of the sands and 2) the local percentage of silt and clay. The Delaware sandstone members are typically overlain and underlain by bounding shale, dolomite, and/or silty shale horizons. The depth to the Castile anhydrite is 4,435', Delaware Mountain Group top of Lamar 4,752', Bell Canyon 4,780, Cherry Canyon 5702, Brushy Canyon Formation 7170'. The base of the Delaware (top of Bone Springs Formation) is at 8,784'.

There are no reported fresh, potable or stock water within a 2-mile radius. Records from the New Mexico Office of the State Engineer on 11/18/2012 show no known water wells within the 2-mile radius of the proposed SWD disposal well.

New Mexico Office of the State Engineer

Wells with Well Log Information

No wells found.

Basin/County Search:

Basin: Lea County

UTMNAD83 Radius Search (in meters):

Easting (X): 627470 Northing (Y): 3555590 Radius: 3220

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.

11/18/12 8:01 PM WELLS WITH WELL LOG INFORMATION

The surface geology of the greater area, including the 2-mile radius shown in Item V above, is Quaternary eolian and piedmont deposits of Holocene to middle Pleistocene age. The base of the Quaternary is at 115'. It is underlain by the Triassic Dockum, Permian Dewey Lake, Rustler Formation and Salado Formation evaporites. The base of the Rustler Formation and top of the Salado is 778' . Top of main salt is 2,360', top of Castile 4535' and base of anhydrite/top of Lamar is 4,752'.

Item IX:

Acidize Delaware perforations between ~~4,792'~~ 4970' and approximately 7,136' with 15% HCl .

Item X:

Logs were run in open hole and are on file with the OCD.

Item XI:

No water wells located in the 2-mile area surrounding the proposed disposal. Please note Item VIII 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.

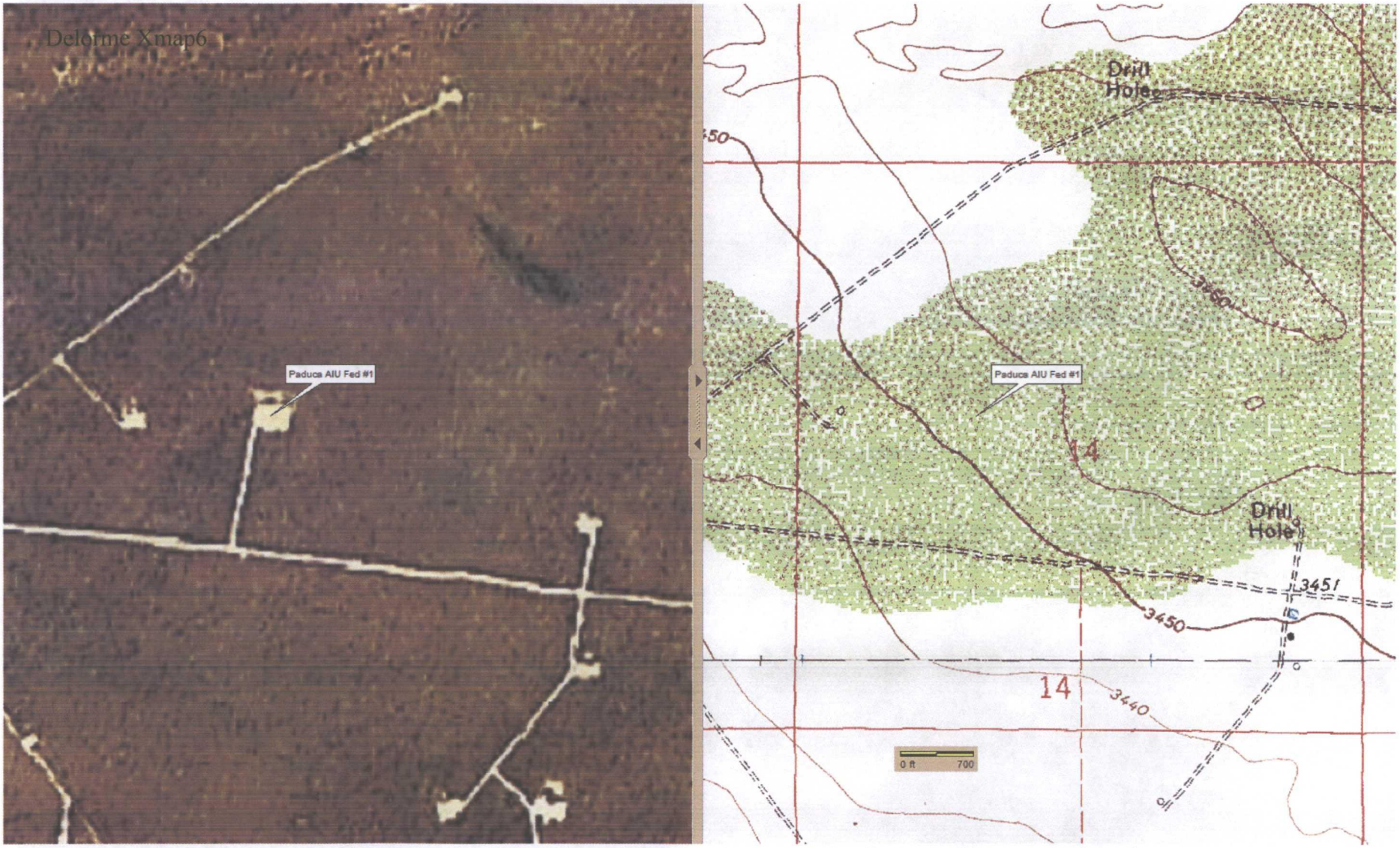
Addendum:

The oil/gas potential in the portion of the Delaware to be used for SWD has been locally tested and logged illustrating the AOR and surrounding acreage lacks commercial hydrocarbon productivity and is water saturated. This is adequately illustrated in core descriptions of the upper Bell Canyon (see detail in Hill & Meeker well file) and by logs and an attempted completion attempt in the target re-entry interval.

Cimarex Energy Co. Paduca AIU Federal #1
2310' FNL & 1650' FWL
Sec. 14, T25S-R32E
Lea County, NM

API 30-025-31177

SPOT10 Satellite and Matching Topographic Map



From the junction of NM-128 and Lea Co. CR-1, Orla Road, south 6 miles then east 1.3 miles to well access road north.
DeLorme Xmap6

Kay C. Havenor, Ph.D

Geoscience Technologies

Office: 575-626-4518
e-mail: KHavenor@GeoResources.com
904 Moore Ave
Roswell, New Mexico 88201-1144

RECEIVED OCD
2012 DEC 26 P 1:37

December 24, 2012

Mr. Will Jones
NM OCD Engineering Bureau
1220 So. St Francis Blvd
Santa Fe, NM 87505

Re: Cimarex Paduca AIU C-108
Correction of Notification for ExxonMobil

Mr. Jones:

Attached are the corrected pages 15 and 17 showing proper notification of ExxonMobil that I discussed earlier. Please replace these in the two copies submitted to your office.

Respectfully yours,

Kay Havenor

Kay Havenor

Cimarex Energy Co. Paduca AIU Federal #1
2310' FNL & 1650' FWL
Sec. 14, T25S-R32E
Lea County, NM

API 30-025-31177

Legal Notice Publication

Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

Joyce Clemens being first duly sworn on oath deposes and says that she is Advertisting Director of THE LOVINGTON LEADER, a thrice a week newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled Legal Notice was published in a regular and entire issue of THE LOVINGTON LEADER and not in any supplement thereof, for one (1) day(s), beginning with the issue of December 8 , 2012 and ending with the issue of December 8 , 2012.

And that the cost of publishing said notice is the sum of $ 32.32 which sum has been (Paid) as Court Costs.

Joyce Clemens

Joyce Clemens, Advertising Manager
Subscribed and sworn to before me this 12th day of December , 2012.

Gina Fort

Gina Fort
Notary Public, Lea County, New Mexico
My Commission Expires June 30, 2014

OFFICIAL SEAL
GINA FORT
Notary Public
State of New Mexico
My Comm. Expires 6/30/14

Legal Notice

Cimarex Energy Co. of Colorado., c/o Kay Havenor, 904 Moore Ave, Roswell, NM 88201, (575) 626-4518, email: KHavenor@geore-sources.com, is seeking approval from the New Mexico Oil Conservation Division to re-enter the Yates Petroleum Corp, Paduca AIU Federal No. 1 well API: 30-025-31177, located 2310 feet from the north line and 1650 feet from the west line of Section 14, T25S, R32E, Lea County, NM, located 27 miles west of Jal, NM off Orla Rd, and re-enter for produced water disposal. The proposed disposal interval is in the

Delaware Mountain Group through 5-1/2" casing perforations ~~4,792~~ 4970 feet to 7,136 feet (OA). Cimarex Energy plans to dispose of a maximum of 5,000 BWPD at a maximum pressure of 958 psi. Parties with questions regarding this proposal are urged to contact Kay Havenor at the e-mail address or phone number above. Interested parties must file objections or requests for hearing within 15 days to the New Mexico Oil Conservation Division, 1220 S. St. Francis Dr., Santa Fe, NM 87505.

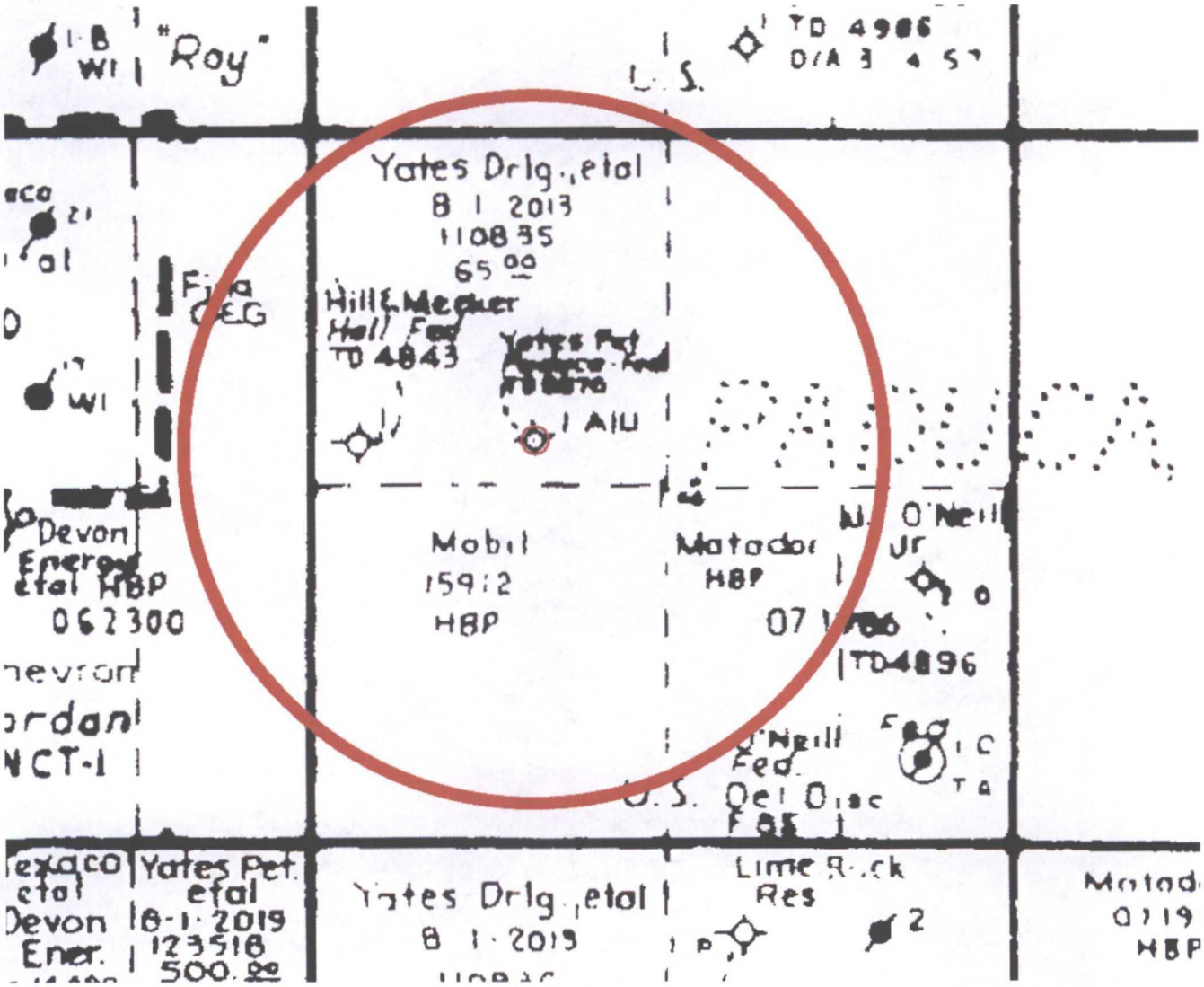
Published in the Lovington Leader December 8, 2012.

Cimarex Energy Co. Paduca AIU Federal #1
2310' FNL & 1650' FWL
Sec. 14, T25S-R32E
Lea County, NM

API 30-025-31177

Enlarged View of AOR
Centered in Unit F Sec. 14, T25S-R32E
Lea Co., NM

Item V(a):



Item XIII:

Surface and Minerals Owner:

Bureau of Land Management
c/o Carlsbad Field Office
620 E. Greene Street
Carlsbad, NM 88220

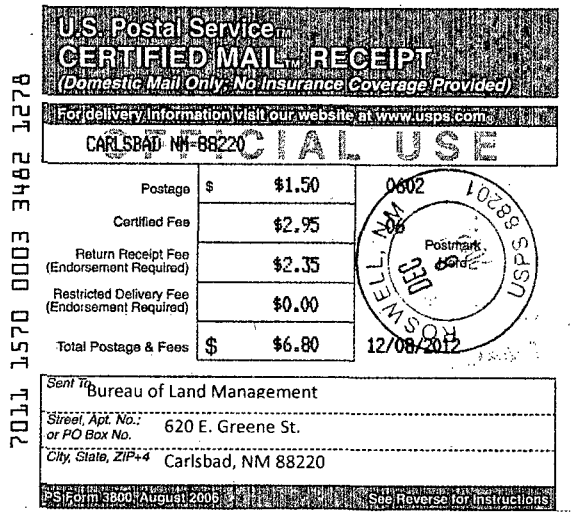
BLM Surface Lessee

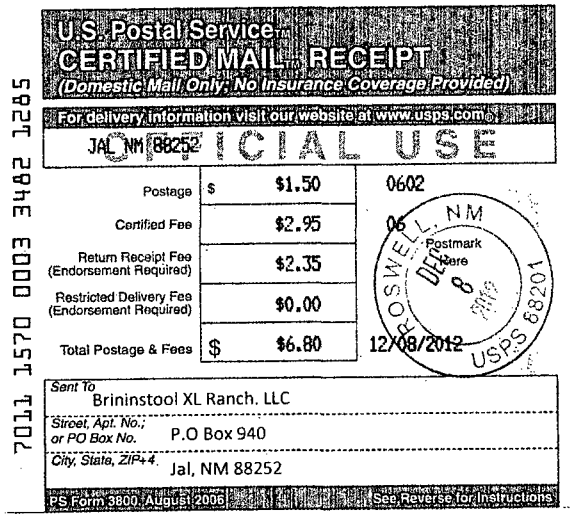
Brininstool XL Ranch, LLC
P.O. Box 940
Jal, NM 88252

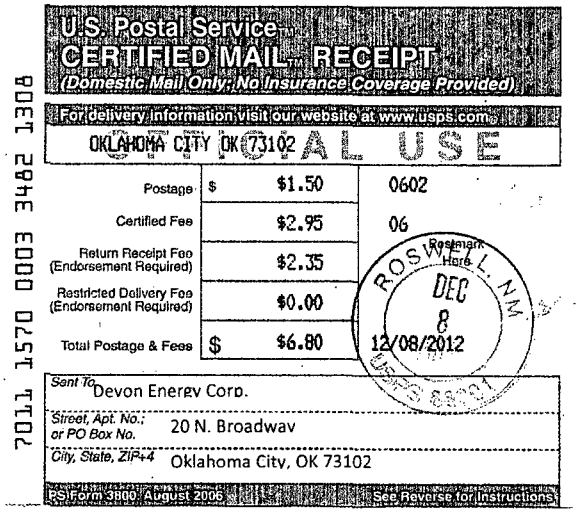
Operators:

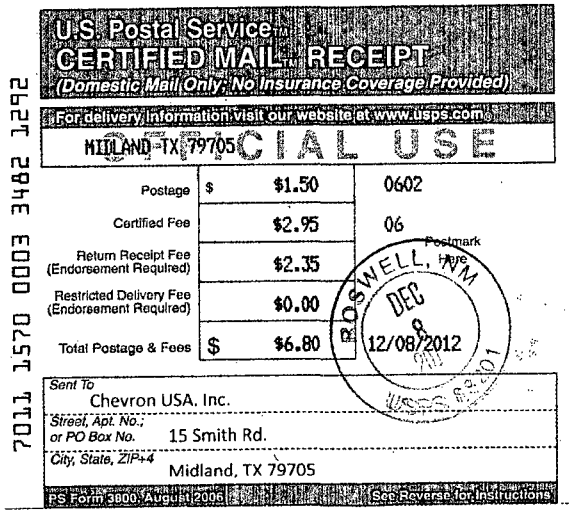
Chevron USA, Inc. 15 Smith Rd. Midland, TX 79705	Sec 15, E2 E2
Devon Energy Corp. 20 N. Broadway Oklahoma City, OK 73102	Sec 13, All, Sec 14, NW4, Sec 15, E2 E2
OXY USA, Inc. P.O. Box 4294 Houston, TX 77210-4294	Sec 14, NW4; Sec 11, SW4 SE4
Matador Petroleum Corp. 8340 Meadow Road, Ste. 150 Dallas, TX 75231-3751	Sec. 11, SW4; Sec. 14, W2 SE4
J. I. O'Neill P.O. Box 2840 Midland, TX 79702	Sec. 14, E2 SE4
ExxonMobil Corporation P. O. Box 2024 Houston, TX 77252-2027	Sec. 14, SW4

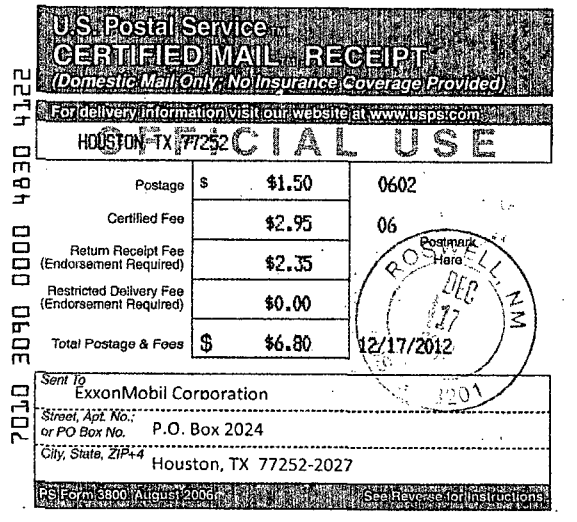
Certified Mail Receipts

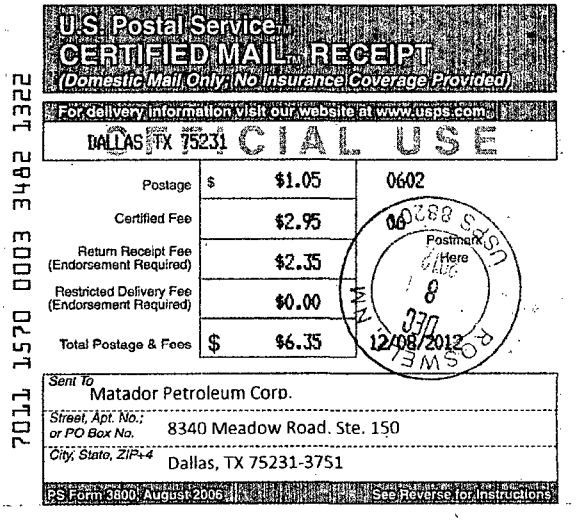




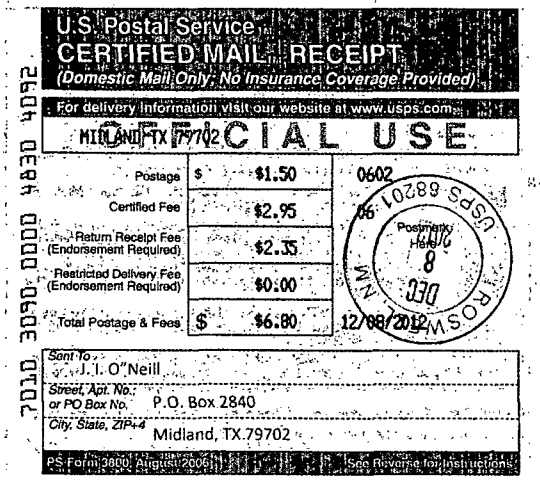








Certified Mail Receipts



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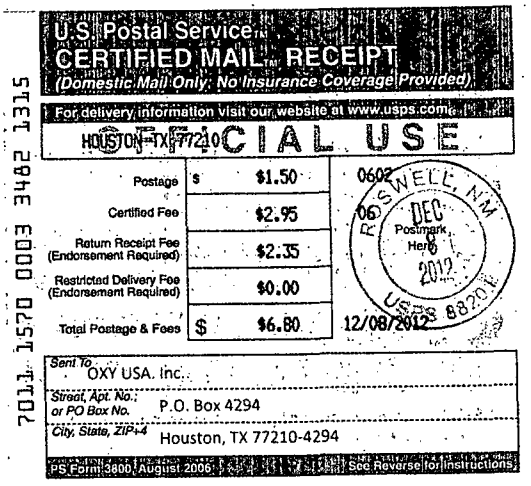
Total Postage & Fees	$6.80

0602 06 Postmark Here DEC 8 2012 USPS 88201 ROSWELL NM
12/08/2012

Sent To: J. L. O'Neill
Street, Apt. No., or PO Box No.: P.O. Box 2840
City, State, ZIP+4: Midland, TX 79702

PS Form 3800, August 2006 See Reverse for Instructions

7010 3090 0000 4830 4092



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Total Postage & Fees	$6.80

0602 06 ROSWELL, NM Postmark Here DEC 8 2012 USPS 88201
12/08/2012

Sent To: OXY USA. Inc.
Street, Apt. No., or PO Box No.: P.O. Box 4294
City, State, ZIP+4: Houston, TX 77210-4294

PS Form 3800, August 2006 See Reverse for Instructions

7011 1570 0003 3482 1315

Jones, William V., EMNRD

From: Ingram, Wesley <wingram@blm.gov>
Sent: Wednesday, December 19, 2012 4:51 PM
To: Jones, William V., EMNRD; khavenor@georesources.com
Subject: Paduca AIU Fed 1
Attachments: Paduca AIU Fed 1 SWD 121912.docx

Will and Kay,

I am attaching a document that I will not sign and send if the items can be addressed quickly. Thank you.

Sincerely,
Wesley W. Ingram
Supervisory Petroleum Engineer
Bureau of Land Management
Carlsbad Field Office
620 E. Greene Street
Phone: 575-234-5982
Fax: 575-234-5927

IN REPLY REFER TO:
3162.3-2 (P0220)

Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Re: Paduca AIU Fed 1

The BLM will object to the proposed salt water disposal well for the following reason.

1. The operator has proposed an injection zone from 4,792' to 7,136'. The Federal O #1 has perforations from 4851' to 4855' in the Olds sand member of the Bell Canyon. This well is outside of the area of review, but operator should submit a cross section to clarify that water injected into the proposed zone will not affect this well.
2. The injection well data sheet should be reviewed based on existing documents and corrected.

If you have any questions regarding this objection, please contact Wesley W. Ingram, Supervisory Petroleum Engineer at (575) 234-5982.

Sincerely,

Wesley W. Ingram
Supervisory Petroleum Engineer
Bureau of Land Management
Carlsbad Field Office

cc: Cimarex Energy Co. of Colorado

Jones, William V., EMNRD

From: Kay Havenor <khavenor@georesources.com>
Sent: Thursday, December 20, 2012 3:22 PM
To: Ingram, Wesley; Jones, William V., EMNRD
Subject: Cimarex C-108 Paduca AIU

4,978

Wesley,

I have discussed the problem you observed relative to the Federal O well in Sec. 14, T25S-R32E, Lea Co. My recommendation to Cimarex was to lower their top C-108 perf to 4,190' in the Paduca AIU. That would put Cimarex's top perf well below the drilled and cement plunged-back Olds sand and additionally below a good shale separation That depth would place the top Cimarex perf approx 135' stratigraphically below the Federal O's lowest perf. It would also, in my opinion, adequately protect that Olds zone.

If this is satisfactory I will notify Will Jones to lower the requested top perf to 4,190' as per the Paduca AIU elog.

Thank you,
Kay

Kay C. Havenor, Ph.D., PG. CPG
GeoScience Technologies
904 Moore Ave
Roswell, NM 88201-1144
(575) 626-4518

Jones, William V., EMNRD

From: Ingram, Wesley <wingram@blm.gov>
Sent: Thursday, December 20, 2012 4:23 PM
To: Kay Havenor
Cc: Jones, William V., EMNRD
Subject: Re: Cimarex C-108 Paduca AIU

Kay,

Your statement to lower the upper perforations to below the Olds Sand is acceptable. Thank you for the quick response.

Sincerely,
Wesley W. Ingram
Supervisory Petroleum Engineer
Bureau of Land Management
Carlsbad Field Office
620 E. Greene Street
Phone: 575-234-5982
Fax: 575-234-5927

On Thu, Dec 20, 2012 at 3:22 PM, Kay Havenor <khavenor@georesources.com> wrote:
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Thank you,
Kay

4,190

Kay C. Havenor, Ph.D., PG. CPG
GeoScience Technologies
904 Moore Ave
Roswell, NM 88201-1144
(575) 626-4518

Jones, William V., EMNRD

From: Kay Havenor <khavenor@georesources.com>
Sent: Thursday, December 20, 2012 4:35 PM
To: Jones, William V., EMNRD
Subject: Fwd: Re: Cimarex C-108 Paduca AIU

Will,

As below, and part copied to you earlier, Wesly Ingram has indicated that lowering the Cimarex Paduca AIU top perf to 4,190'. This is acceptable to Cimarex.

4970'

Kay

Kay,

Your statement to lower the upper perforations to below the Olds Sand is acceptable. Thank you for the quick response.

Sincerely,
Wesley W. Ingram
Supervisory Petroleum Engineer
Bureau of Land Management
Carlsbad Field Office
620 E. Greene Street
Phone: 575-234-5982
Fax: 575-234-5927

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>
> 4970'
>
> Thank you,
> Kay
>
> Kay C. Havenor, Ph.D., PG. CPG
> GeoScience Technologies

Jones, William V., EMNRD

From: Kay Havenor <khavenor@georesources.com>
Sent: Tuesday, January 08, 2013 4:41 PM
To: Jones, William V., EMNRD
Subject: Re: Proposed disposal from Cimarex Energy Company of Colorado: Paduca AIU Federal #1 (30-025-31177) Bell and Cherry Canyon perforations
Attachments: P-3 C-108 Paduca AIU Fed F-14-25S-32E.pdf; P-13 C-108 Paduca AIU Fed F-14-25S-32E.pdf

Mr. Jones,

The "4191'" figure was my typo. It should have been 4970. The corrected top of perfs as agreed to with BLM is 4970, The attached, Page 3, Injection Well Datasheet shows the 4970 to 7136' interval. Correspondingly, a revised completed well diagram, Page 13, is also attached.

Thank you, and Happy New Year too!

Kay Havenor

At 01:27 PM 1/8/2013, you wrote:

Hello Dr. Havenor,
I am looking this one over and noticed the proposed interval was originally 4792 to 7136 feet and so don't understand the statement below "lowering .... To 4190". It seems this would be raising the top perf?

If you will send to me an updated "Injection Well Datasheet" and updated Wellbore Diagram, I am hoping it will all be clear.
And I would need those two items anyway.

Happy New Year,

Will Jones

From: Kay Havenor [mailto:khavenor@georesources.com]
Sent: Thursday, December 20, 2012 4:35 PM
To: Jones, William V., EMNRD
Subject: Fwd: Re: Cimarex C-108 Paduca AIU

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4970

Kay

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Sincerely,
Wesley W. Ingram
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(575) 626-4518

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GeoScience Technologies
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Roswell, NM 88201-1144
(575) 626-4518

Miss	Row	C-108	C-108 disposal application submittals... CHECKLIST to ensure all items are supplied or considered.
	1		***Operator, Well, and Contact info:***
	2	II	Name of person submitting the application: Kay Havenor Other Contact?
	3	II	Did you Include a contact Email in the application? Yes and Mailing Address? Yes and Phone? Yes
	4	II	Operator Name: Cimarex Energy Company of Colorado OGRID Num: 162683
	5		RULE 5.9 Compliance...Number of Inactive Wells 0 vs Total Wells Operated 1289 Is financial assurance required on any well? Yes-56 wells 0 wells in violation
	6		Is there any hearing order finding this operator out of compliance with Division Rule 19.15.5.9 NMAC?
	7		Are all Rule 5.9 issues OK to allow the Division to issue Disposal Permits?
	8	III	Well Name: Paduca AIU Federal #1
	9	III	API Num: 30-025-31177 Spud Date:.4/7/1991 I
	10		Have you included API numbers on all wellbore diagrams and well list(s) in this application? Yes
	11	III	Proposed well...Footages 2310' FNL & 1650' FWL Unit F Sec 14 Tsp 25S Rge 32E County Lea
	12		General Location (i.e. Y miles NW of Z): located 27 miles west of Jal, NM off Orla Rd
	13		Current Well Status: P&A
	14	I	General Summary of Planned Work to Well: Re-enter, tie-in pulled 5-1/2" csg production string, cmt to surface, Perf and acidize.
	15		***INTERVAL TOP and BOTTOM:***
	16	IIIB.(2)	Proposed disposal Top Depth: ~~4,702~~ 4970 Formation Name: Delaware Bell Canyon
	17	IIIB.(2)	Proposed disposal Bottom Depth: 7,136' Formation Name: Delaware Cherry Canyon
	18	IIIB.(2)	Is the disposal interval OpenHole? or Perfed? X or Both?
	19	IIIB.(2)	What will be the disposal tubing size OD? 3-1/2" Packer Seat, Feet: approx 4,900'

Miss	Row	C-108	C-108 disposal application submittals... CHECKLIST to ensure all items are supplied or considered.
	20	VII	What max surf inj. psi are you proposing? ~~858'~~ 994 If differing from 0.2 psi/ft surf. Grad., is supporting data attached such as a Step Rate Test?_____
	21		***FRESH WATERS:***
	22	VIII	Depth to bottom of Fresh Waters:___est less than 115"_____Formation Name(s)?____Quaternary alluvium_____
	23	XI	Any Fresh Water Wells Within 1 Mile? __None reported_____ If so, did you attach an analysis from these Wells? __None available____
	24		Are all "Fresh" waters isolated with Casing and Cement? __Yes_____ ("Fresh" water is defined as less than 10,000 mg/l of TDS)
	25	XII	Included "Affirmative Statement" concerning any Connection from Disposal Depths to existing Fresh Waters?___Yes Item XII_____
	26		***WASTE WATERS:***
	27	XIV	Will this be a Lease Only disposal well? _____ or only used for the Operator's own waste needs? ___X_____or Commercial Disposal? _____
	28	VII	Which formations will supply the waste waters to be disposed into this well... List most common...Bone Springs
	29	VII	Are Waste waters compatible with proposed disposal interval waters?__Yes_____ Did you include waste water analysis? ____Yes (Delaware)_____
	30		***AT PROPOSED WELL....INSITU WATERS AND HYDROCARBON POTENTIAL:***
	31		Is a discussion included of the potential for future OIL/GAS recovery from the proposed disposal interval?____Yes_____
	32		If your proposed well for disposal is a depleted producer (within the proposed interval); do you know what was the cumulative oil/gas/water?_____ and did you include a Rate-Time plot of this depleted interval?_____
	33	VII	Insitu water analysis Included? No Is the salinity within the disposal interval more than 10,000 mg/l of TDS? . or how will you determine this insitu water salinity? Upon completion of perforations the proposed disposal interval will be swabbed to 1) confirm the absence of commercial hydrocarbons and 2) obtain analysis of formation water.
	34	VIII	Does the application include a list of Formation tops down to and including the bottom of the target formation? ____Yes_____
	35		What is the top __1120'_____and bottom __4,535'_____ of the Salado Salt reported in this well.
	36	X	Are all existing Logs (including any CBL over the disposal interval) are on the OCD Web Site? __Yes__If logs not there, please send_____
	37	IIIA.	Are the wellbore diagrams for this well included in the Application.....Before Conversion? Yes___ and After Conversion? Yes__

Miss	Row	C-108	C-108 disposal application submittals... CHECKLIST to ensure all items are supplied or considered.
	38		Are the top and bottom footage of the proposed disposal interval marked on the "after" diagram? Yes
	39		***NOTICE:***
	40	XIV	Date of the Newspaper Notice in the County: 12/8/2012 Lea Co.
	41	V	Within 1/2 mile, did you clearly identify (either on a map or by legal description) all separately owned tracts of lands within the disposal interval? Yes
	42	XIII	Did you identify the owner(s) of each of these separately owned tracts? Yes, in Were they all formally noticed? Yes
	43	XIII	If reentering a P&Aed well, are there depth divisions of ownership within that well? No .....If so, have you also noticed all the shallower interests of the intent to use the well for disposal?
	44	XIII	Is the proposed well within the R-111-P defined Potash Area or the BLM Secretaries Potash Area? No ..... If so, did you send notice to the nearest Potash lessee?
	45	XIV	Who owns the surface lands at the disposal well site (BLM, SLO, or who)? BLM - Surface leased Yes Was that party formally noticed? Yes
	46		***Area of Review:***
	47	V	Did you include a map identifying all wells within 2 miles? Yes
	48	VI	Did you include a list of all AOR wells? Yes Is the list available to be emailed (if requested) in spreadsheet format? Yes - Included in Item VI list
	49	VI	Does this list identify all wells penetrating (at least the top of) the disposal interval within 1/2 mile of the proposed well? Yes
	50	VI	Did you include wellbore diagrams for all P&Aed wells that exist within the 1/2 mile AOR that penetrate the disposal interval? Yes
	51	VI	How many wells exist within the 1/2 mile AOR that penetrate the disposal interval? 2 How many of these are Plugged/Dry and Abandoned? 0 P&A
	52	VI	Are details included on cement coverage of the proposed disposal interval for all wells penetrating the disposal interval within 1/2 mile of the roposedwell? Yes
	53	VI	Do all reported cement tops describe how that "top" was determined? If Available If you calculated any tops, what fillup efficiency factor did you use?
	54	VI	Did you identify the presence and depth of all Cement Stage Tools (DV) in the subject well and in the AOR wells? Yes, when info was available
	55	VIII	For the target formation, is there significant formation structural depth changes within the 1/2 mile AOR? No
	56	VIII	Is there any Karst or Massive Limestone in this target formation? No ...or in the formations directly above or below? No

Miss	Row	C-108	C-108 disposal application submittals... CHECKLIST to ensure all items are supplied or considered.
	57		***Administrative or Hearing:***
	58	VI	How many wells within the 1/2 mile AOR currently are producing (or still have open perforations) within the disposal interval? None is it "gas" or "oil"?
	59		.... NOTE: If the proposed disposal interval is a "Gas" interval or if any AOR wells are producing or have open perforations within this interval then this application may not be properly classified as a "disposal". These types of applications must be processed at an examiner hearing.
	60		Any other Issues..?

in 12/12/12

Injection Permit Checklist First Email Date: See LIST Final Reply Date: 1/8/12 Final Notice Date: 12/8/12

Issued Permit: Type: WFX/PMX/SWD, Number: 1384 Permit Date 1/14/13 (Legacy Permit: —)

Wells 1 Well Name(s): PADUCA AIU FEDERAL #1

API Num: 30-0 25-31177 Spud Date: 4/7/91 New/Old: N (UIC Cl II Primacy March 7, 1982)

Footages 2310 FNL/1650 FWL Lot Unit F Sec 14 Tsp 25S Rge 32E County LEA

General Location or Pool Area: 27mi west of NTAL

Operator: CIMAREX Energy Co. of COLORADO Contact: DR. KAT HAVENOR

OGRID: 162683 RULE 5.9 Compliance (Wells) 6/125 (Finan Assur) OK IS 5.9 OK? OK

Well File Reviewed ✓ Current Status: P&A (9/25/91) Pulled 5 1/2 From 3950'

Planned Work to Well: RE-enter, Trim 5 1/2" CSG/CMT/Perf/ACIDIZE

Diagrams: Before Conversion ✓ After Conversion ✓ Are Elogs in Imaging?: yes

Well Details:	Sizes Hole.....Pipe	Setting Depths	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned __or Existing ✓ Surface	17 1/2 - 13 3/8	816	—	500 SX	CIRC
Planned __or Existing ✓ Interm	11 - 8 5/8	4747	—	1450 SX	Surf
Planned ✓ or Existing ✓ LongSt	7 7/8 - 5 1/2	8870'	6897	990	3950' (Report)
Planned __or Existing __ Liner				CMT FROM 5000'	
Planned __or Existing __ OpenHole		Possible NOT USED			

Depths/Formations:	Depths, Ft.	Formation	Tops?
Above			
Above	4780	Bell	✓
Proposed Interval TOP:	~~4770~~ 4970	Bell C.	
Proposed Interval BOTTOM:	7136	Cherry C.	
Below	5702	Tubb C.	✓
Below	7170	Brushy C.	✓

4797 - 4834 = Productive Prior to P&A

Max. PSI 994 ~~OpenHole~~ Perfs ✓

Tubing Size 3 1/2 Packer Depth 4900'

4970 / 9940

~~Capitan Reef?~~ (in ~~/thru~~); ~~Potash?~~ ~~Noticed?~~ [WIPP?] ~~Noticed?~~ Salado Top 1120' (2360') Bot 4535' ~~Cliff House?~~

Fresh Water: MaxDepth: 115' FW Formation QAL Wells? NONE Analysis? N.A Affirmative Statement ✓

Disposal Fluid: Formation Source(s) _____ On Lease __ Only from Operator ✓ or Commercial __

Disposal Interval: Protectable Waters? H/C Potential: Log ✓ /Mudlog __ /DST __ /Tested ✓ /Depleted __ Other HIGH SW

Notice: Newspaper Post Date 12/8/12 Surface Owner BLM N. Date 12/8/12

RULE 26.7(A) Identified Tracts? ✓ Affected Persons: See LIST N. Date 12/8/12

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

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

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

Permit Conditions: Run Survey (Need ~~Have~~ well Database and WBD). ✓

Issues:

Issues:

Issues: