1.2.24.12 NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505 ABOVE THIS LINE FOR DIVISION USE ONLY **ADMINISTRATIVE APPLICATION CHECKL** 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] 0-15-175-28E

DLM

NVery
PR

Cisco For mation Location - Spacing Unit - Simultaneous Dedication [A] \square NSL \square NSP \square SD Check One Only for [B] or [C] Commingling - Storage - Measurement \square DHC \square CTB \square PLC \square PC \square OLS \square OLM Injection - Disposal - Pressure Increase - Enhanced Oil Recovery [C] \square WFX \square PMX X SWD \square IPI \square EOR \square PPR [D] Other: Specify 3150 - 85001, and/or, **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or \square Does Not Apply [2] [A] ☐ Working, Royalty or Overriding Royalty Interest Owners [B]X Offset Operators, Leaseholders or Surface Owner X Application is One Which Requires Published Legal Notice [C] [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. **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 CHAVENOT Kay Havenor 2/7/2012 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? 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 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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, 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 C Howeror DATE: January 16, 2012
*	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.

OPERATOR: Cimarex Energy Co. of Colorado WELL NAME & NUMBER: Vermejo SWD #1 WELL LOCATION: 900' FSL & 2530' FEL FOOTAGE LOCATION WELLBORE SCHEMATIC See attached diagram	O UNIT LETTER Hole Size: Top of Cement: _ Cemented with: _ Top of Cement: _	15	OGRID 162383) 15
TELLBORE SCHEMATIC	Hole Size:	PROPOSED WELL (Surface 17-1/2" 400 Sx	Casing Casing Size: 13-3
See attached diagram	Cemented with: _ Top of Cement: _		or
		Intermedia	ate Casing
	Hole Size:	12-%"	Casing Size: 9-5/8
	Cemented with:		or
	Top of Cement:	Surface	Method Determin
		<u>Productic</u>	Production Casing
	Hole Size:	8-3/4"	Casing Size: 7" 26# to 9,000'
	Cemented with:	23 <u>0</u> 0 sx.	or
	Top of Cement:_	Surface	Method Determined:
	Total Depth:	9,000' Injection	Injection Interval
	Аррг	Approximately 8,150'	To8.500'

(Perforated or Open Hole; indicate which) Perforated

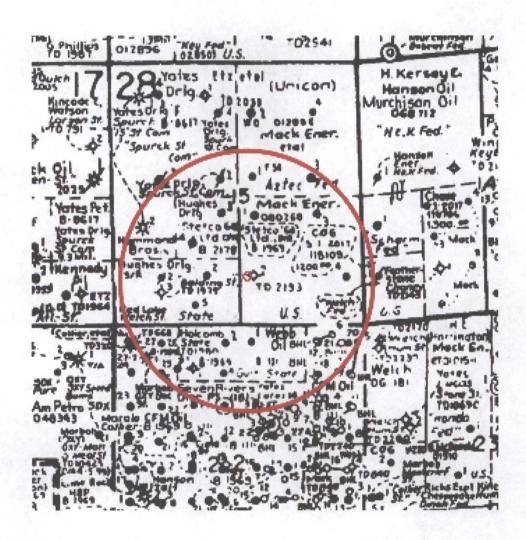
INJECTION WELL DATA SHEET

Tubing Size: 3-1/2" 9.3# N-80 Lining Material: Fiberglass coated
Type of Packer: Lok-Set or equivalent
Packer Setting Depth: Approx 8,100 ft
Other Type of Tubing/Casing Seal (if applicable):
Additional Data
1. Is this a new well drilled for injection? <u>X</u> _YesNo
If no, for what purpose was the well originally drilled?
2. Name of the Injection Formation: Cisco
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. No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Queen 1,450' - San Andres 1,980', Abo 5,450, Wolfcamp 6,550, Morrow 9,800'

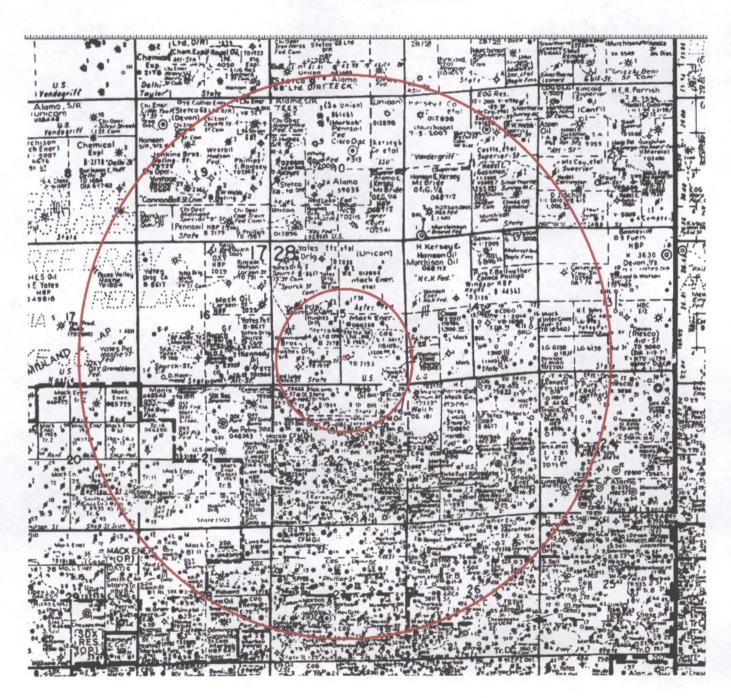
Item V (a):

Area of Review ½ Mile AOR



Item V:

Area of Review
1/2 Mile AOR and 2 Mile Radius



Cimarex Energy Company of Colorado

Vermejo SWD #1

990' FSL & 2530' FEL

Sec. 15, T17S-R28E Eddy County, NM

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TEVGL	3533	3543*	3627	3669	3555	3541	3544	3522	3533	3570*	3540	3573	3535	3707	3599	3714	3705	3721	3706	3724	3558	3550	3551	3553	3545	3543	3549	3548	3547	3586*	3592	3582	3584	3592
SPUD_DATE ELEVGL	5-Nov-58	14~Jul-58	18-Feb-61	5-Jan-61	10-Mar-60	15-Nov-40	18-Feb-59	19-Jan-01	10-Jan-46	Circa 7/1936	24-Mar-59	8-Apr-60	6-Jul-59	3-Jan-62	28-Jan-81	2-Feb-81	3-Feb-81				17-Jan-59	16-May-59	Circa 12/1937	17-Dec-84		30-Sep-80	03-Oct-80	16-Jun-00		22~Jun-63	8-Sep-80	22-Sep-80		20-Apr-80
PLUG_DATE	11-Jun-01								14-Feb-47			8-May-60	31-Jul-59										•				21-Oct-80							
LAND WELL	0	0	0	0	0	0	0	φ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0
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OPERATOR	YATES DRILLING CO	TANDEM ENERGY	TANDEM ENERGY	TANDEM ENERGY	TANDEM ENERGY	HUGHES DRILLING CO.	HUGHES DRILLING CO.	OXY USA INC	N GORDON PHILLIPS	HUGHES DRILLING CO.	HUGHES DRILLING CO.	KINCAID & WATSON DRLG	N GORDON PHILLIPS	TANDEM ENERGY	CFM OIL, LLC	CFM OIL, LLC	CFM OIL, LLC	CIMAREX ENERGY CO. OF	CIMAREX ENERGY CO. OF	CIMAREX ENERGY CO. OF	TANDEM ENERGY	TANDEM ENERGY	TANDEM ENERGY	TANDEM ENERGY	OXY USA WTP LIMITED	CFM OIL, LLC	COLLIER ENERGY INC	APACHE CORP	OXY USA WTP LIMITED	CFM OIL, LLC	CFM OIL, LLC	CFM OIL, LLC	CIMAREX ENERGY CO. OF	CFM OIL, LLC
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FTG EW	2310 W	2310 E	990 E	990 E	2310 E	1650 W	2310 W	W 099	₩ 066	1570 W	W 0861	2310 E	990 E	330 E	990 E	330 E	990 E	485 E	160 E	680 E	2310 E	2310 W	1642 W	2270 W	1510 W	W 086	330 W	W 099	472 W	2310 W	2310 E	1650 E	1460 E	990 €
NS	z	Z	z	S	S	S	S	s	S	S	s	S	S	S	Z	z	Z	z	z	z	Z	z	z	z	Z	Z	Z	z	z	z	z	Z	Z	Z
FTG	2310	2310	2310	2310	2310	1650	2310	1980	9	250	990	990	999	990	986	330	330	330	345	120	330	330	1018	975	408	330	330	999	380	1650	1650	1650	1650	1650
RANGE	28E	28E	28E	28E	28E	28E	28E	28E	28E	28E	28E	28E	28E	28E	28E	28E	28E	38 E	28E	28E	28E	28E	28E	28E	28E	28E	28E	28E	28E	28E	28E	28E	28E	28E
SDIV SEC TWNSP RANGE	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17,08	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05	17.05
SECT	52	12	15	15	15	15	12	15	15	13	15	15	15	15	22	22	22	22	22	22	22	75	22	22	22	22	22	22	22	22	22	22	22	22
SDIV	L	ŋ	I	_		¥	¥	_	Σ	z	z	0	۵	۵	4	⋖	4	∢	∢	4	8	ပ	U	U	ပ	۵	۵	۵	٥	ட	ŋ	ŋ	ŋ	I
STATUS	Plugged	Active	Active	Active	Active	Active	Active	Active	Plugged		Active	Plugged	Plugged	Active	Active	Active	Active	New	New	New	Active	Active	Active	Active	New:	Active	Plugged	Active	New	Active	Active	Active	New	Active
WELL NAME	SPURCK F STATE	AZTEC FEDERAL	AZTEC FEDERAL	FEDERAL 003	FEDERAL 001	PHILLIPS BALDING	PHILLIPS BALDING	SPURCK 15 STATE	PHILLIPS BALD ST	PHILLIPS BALDING	PHILLIPS BALDING	FEDERAL 002	PHILLIPS BALD ST	FEDERAL 004	STATE B 1111 018	STATE B 1111 020	STATE B 1111 021	MARACAS 22	MARACAS 22	MARACAS 22	GULF STATE 001	GULF STATE 002	GULF STATE 003	GULF STATE 004	ROO 22 STATE 008	STATE B 1969 026	STATE B-1969 TR 4	OXY BOC STATE	ROO 22 STATE 007	STATE 8 1111 001	STATE B 1111 013	STATE B 1111 014	MARACAS 22	STATE B 1111 009
API	3001501372	3001501374	3001501376	3001501379	3001501377	3001501370	3001501381	3001531315	3001501371	3001501369	3001501382	3001501378	3001501383	3001501380	3001523569	3001523571	3001523572	3001538331	3001538428	3001538429	3001501496	3001501497	3001501498	3001525115	3001539654	3001523478	3001523479	3001530955	3001539653	3001510247	3001523452	3001523453	3001538398	3001523139

* Elevation from topographic map

Vermejo SWD #1

990' FSL & 2530' FEL

Sec. 15, T17S-R28E Eddy County, NM

Item VI: Data on wells in AOR:

Item VI(a): Wells within the AOR that penetrate the proposed Cisco injection interval.

3001530955	3001531315	, API
01530955 OXY BOC STATE Active	SPURCK 15 STATE Active	WELL_NAME
Active	Active	STATUS
	ļ	SDIV
22	15	SEC T
22 17.05	17.0S 28E	WNSPI
28E	28E	RANGE
660	1980	FIG
Z	S	SN
W 099	۷ 099	FIG [
2	8	EW
0	_	OCD
APACHE CORP	OXY USA INC	OPERATOR
s	S	LANC
Ð	6	WEL
		L PLUG_DATE
16-Jun-00	19-Jan-01	SPUD_DATE EL
3548	3522	IPA
10100	10100	ΠVD

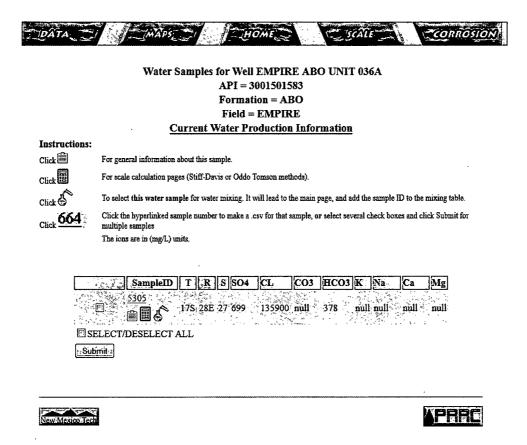
1. 30-015-31315 OXY USA, Inc. Spurck 15 State Com. #2, Unit L, 1980 FSL & 660 FWL Sec. 15, T17S-R28E, Eddy Co. Elev 3522 GL. Spud 10/10/2000. 17½" hole set 133%" 48# @398' w/363 sx cmt, circ 99 sx. 12½" hole set 95%" @2,055' w/750 sx, reported circ to surface. 8¾' hole set 7" S/P 110, N-80, J-55, L-80 23/26# @10,099' w/1210 sx, reported circ of surface. Perf Morrow 9,838'-9,966' (OA). Acid + Frac. Active

2. 30-015-30955 Apache Corporation OXY BOC State #1, Unit D, 660' FNL & 660' FWL Sec. 22, T17S-R28E, Eddy Co. Elev 3548 GL, Spud 6/16/2000. 171/2" hole set 133/8" 48# @406' w/360 sx, circ 5 sx to surface. 85/8" hole set 7" @8,138' w/300 sx, TOC 7,925'. 61/4" hole set 51/2" liner 7,810-10,100', cmt w/160 sx, TOC top of liner 7,810' (calc). Perf Morrow 10,021'-10,026'. Acid 500 gal 7.5%. Active well.

Item VII:

- 1. The maximum injected volume anticipated is 4,000 BWPD. Average anticipated is 3,000 BWPD.
- 2. Injection will be through a closed system.
- 3. Maximum injection pressure is expected to be 1,630 psi, or as allowed by depth.
- 4. Sources will be produced water. These will be compatible with waters in the disposal zone.
- 5. Water sample analysis from the Apache Corporation Empire Abo Unit 036A, Unit I, Sec. 27, T17S-R28E, Eddy Co., NM, is the closest representative of Permo-Pennsylvanian water quality similar what would be disposed in the Cimarex Vermejo SWD #1. This sample has TDS of approximately 137,000 mg/l from the Permian Abo. Pennsylvanian TDS's would be lower than Permian, but not incompatible.





Before disposal the interval will be evaluated to confirm the absence of commercial hydrocarbons.

Item VIII:

The Cisco Pennsylvanian carbonates in this area are limestone and dolomitized limestones, interbedded with shales and some sandstones.

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)
(NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 578479

Northing (Y): 3632408

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.

1/15/12 5:08 PM

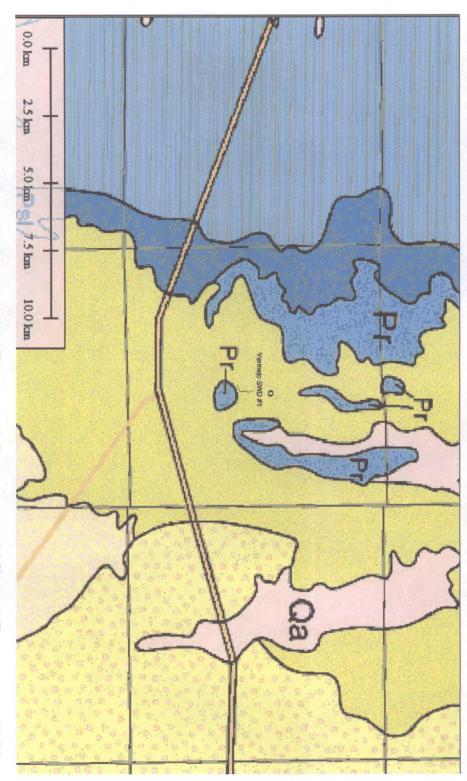
WATER COLUMN AVERAGE DEPTH TO WATER

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. An excerpt from the NM Bureau of Geology map of New Mexico is shown below with the location of the Vermejo SWD #1.

Based upon surface geology the depth to potential potable water is estimated to be less than 150', if present.

Sec. 15, T17S-R28E Eddy County, NM

Map of Vermejo SWD #1 Surface Geology



Qa Alluvium - Holocene to upper Pleistocene
Qep Eolian and piedmont deposits
Qoa Older alluvial depost

Pr Rustler Formation

NM Bureau of Geology and Mineral Resources 2003

Item IX:

Acidize the Cisco perforations between 8,150' and 8,500' through 7" casing perforations with approximately 10,000 gal of 15% HCl.

Item X:

Logs will be filed with the OCD upon completion of the well.

Item XI:

No water wells are reported in the 2-mile radius of the proposed SWD. Please note Item VIII discussion above.

Item XII:

There is no geological evidence of open faults or hydrologic connection between the disposal zone and any possible underground sources of protectable water.

Drilling/evaluation of the Cisco of the greater area around this well, discussed in Item IV(a) above, demonstrates the lack of reasonable hydrocarbon commercial production potential. Additionally, the Cisco has been drilled-through by numerous wells in the greater area without significant hydrocarbon shows in the formation. The Cisco is currently utilized for SWD southwest of the proposed Vermejo SWD (Judah Oil, LLC, Red Lake State SWD, Unit G, Sec. 22, T1.7S-R28E) and in other wells in the greater area.

Proposed Completion of Vermejo SWD Well

PROPOSED COMPLETION

API:

30-015-NA

Operator: Cimarex Energy Co. of Colorado

Vermejo SWD

Location: Sec 15, T17S-R29E Eddy Co., NM

Footage: 990 FSL, 2530 FEL

Vermejo SWD #1

Well No: 1

KB Est: 3578 GL: 3559

Original Surface Csg

Size:

13-3/8" 48# H-40

Set@:

400

Sxs cmt:

400 sx

Circ:

TOC:

Hole Size:

17-1/2"

Original Intermediate Csg

Size:

9-5/8" 32# H-40 STC

Set@:

2100

Sxs cmt:

800

Circ:

TOC:

Surface

Hole Size:

12-1/4"

Original Production Csg

Size:

7" 26# N80

Set@: Sxs cmt: 9000 900

Cire:

TOC:

Surface

Hole Size:

8-3/4"

Tubular requirements (made-up):

8100' 3-1/2" N80 9.3# upset Fiberglass coated

Lok-Set packer or equivalent approx 8100'

Perf and acidized selectively

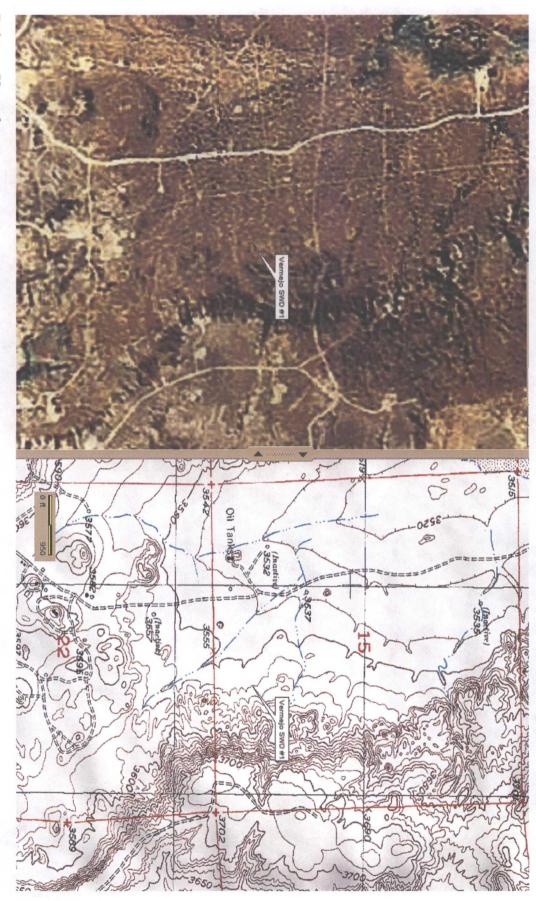
Load tubing annulus w/corrosion inhibitor

Complete surface head for disposal

2100 DV tool approx 7500' Injection pkr approx 8100' Perfs approx 8150' - 8500' Acidized all perfs w/10,000 gal 15% HCI 9000 TD 3000

Not to Scale

SPOT10 Satellite and Matching Topographic Map



Delorme Xmap6

The Cimarex Energy Company Vermejo SWD #1 is located 2.2 miles north of the junction of US-82 and NM-380.

Item XIII: Proof of Notice

Minerals Owner:

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

Operators:

Apache Corporation 6120 So. Yale, Ste. 1500 Tulsa, OK 74136

CFM Oil Company P.O. Box 1176 Artesia, NM 88210

Chevron USA, Inc. 15 Smith Road Midland, TX 79705

ConocoPhillips Company 3401 E. 30th Street Farmington, NM 87402

Devon Energy Production Company, LP 20 N. Broadway Oklahoma City, OK 73102

Exxon Mobil Corporation P.O. Box 4358 Houston, TX 77210

Surface Lessee:

Bogle, Ltd. Attn: Lewis Derrick P.O. Box 460 Dexter, NM 88231-0460

BP America Permian Operations P.O. Box 1610 Midland, TX 79702

Chesapeake Operating, Inc. P.O. Box 18496 Oklahoma City, OK 73102

Concho Resources, Inc. 550 W. Texas St., Ste. 100 Midland, TX 79701

Cochran Energy, LP c/o Hummingbird Investments, LLP 2219 Westlake Dr., Ste. 120 Austin, TX 78746

EOG Resources, Inc. P.O. Box 2267 Midland, TX 79702

Harvey E. Yates Company P.O. Box 1933 Roswell, NM 88202

Hughes Drilling Company 31 Jerry Drive Artesia, NM 88210

McBride Oil & Gas, Inc. P.O. Box 1515 Roswell, NM 88202

Murchison Oil & Gas, Inc. 1100 Mira Vista Blvd Plano, TX 75093

S. P. Yates c/o Yates Petroleum Corp. 105 South 4th St. Artesia, NM 88210 Mack & Marilyn Chase Trust P.O. Box 693 Artesia, NM 88211

McCombs Energy, LLC 599 San Felipe, Ste. 1200 Houston, TX 77056

OXY USA, Inc. P.O. Box 4294 Houston, TX 77210

Tandem Energy Corporation . 11490 Westheimer Rd, Ste. 1000 Houston, TX 77077

Item XIII: Legal Publication

Affidavit of Publication NO. 22031
STATE OF NEW MEXICO
County of Eddy:
Danny Scott January Least
being duly sworn, says that he is the Publisher
of the Artesia Daily Press, a daily newspaper of general
circulation, published in English at Artesia, said county
and state, and that the hereto attached
Legal Notice
was published in a regular and entire issue of the said
Artesia Daily Press, a daily newspaper duly qualified
for that purpose within the meaning of Chapter 167 of
the 1937 Session Laws of the state of New Mexico for
1 Consecutive weeks/days on the same
day as follows:
First Publication February 17, 2012
Second Publication
Third Publication
Fourth Publication
Fifth Publication
Subscribed and sworn to before me this
17th day of Feburary 2012

DENCIAL SEAL

Latisha Romine

Latishe Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

Notary Public, Eddy County, New Mexico

commission expires: 5/12/2015

Copy of Publication:

LEGAL NOTICE

Cimarex Energy Company of Colorado, 600 N. Marienfeld St., Ste 600, Midland, Texas, 432-571-7800, is seeking approval from the New Mexico Oil Conservation Division to drill and complete the Cimarex Energy Company of Colorado Vermejo SWD No. 1 well API: unassigned, located 900 feet from the south line and 2530 feet from the east line of Section 15, T17S, R28E, Eddy County, NM, located 2.2 miles north of the junction of US-82 and NM-380, to perforate casing and complete for non-commercial disposal of produced water.

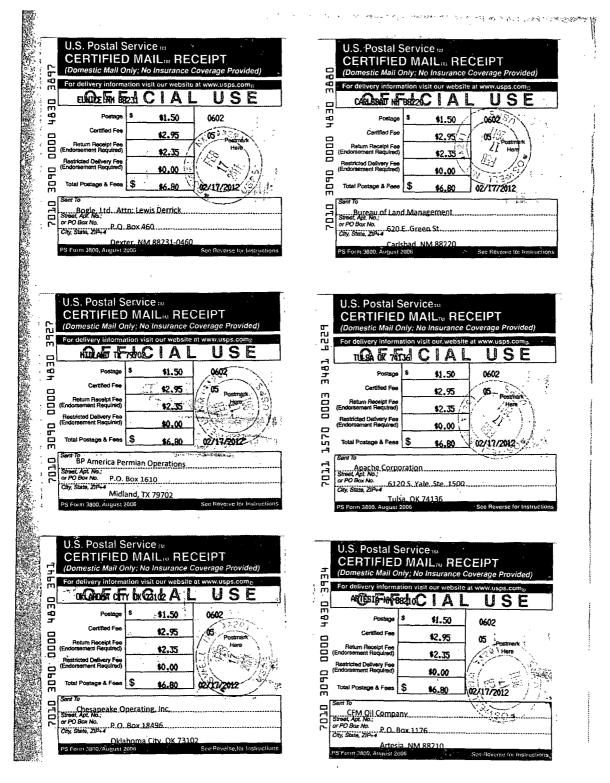
The proposed disposal interval is in the Pennsylvanian Cisco formation through casing perforations from approximately 8,150 feet to 8,500 feet (OA) beneath the surface.

Cimarex plans to dispose of approximately 4,000 BWPD at a maximum pressure of 1,630 psi, or as controlled by actual disposal depth.

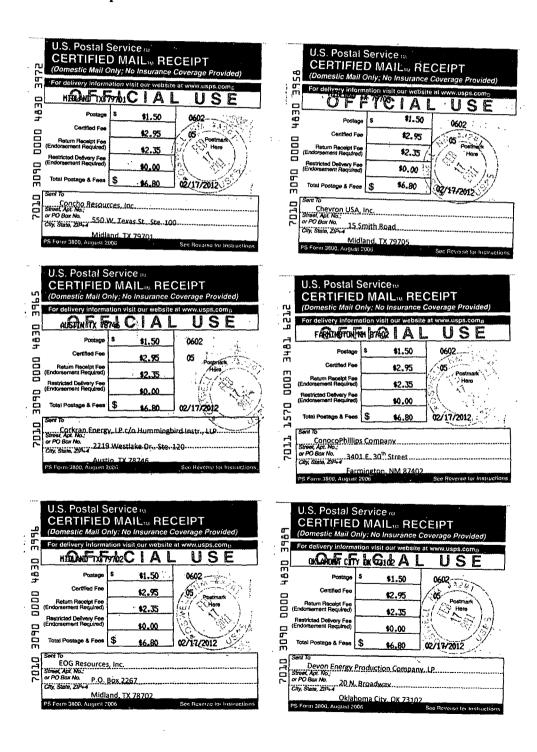
Parties with questions regarding this proposal may contact Cimarex at the address or phone number above.

Interested parties must file objections or requests for hearing within 15 days of publication to the Oil Conservation Division: 1220 S. St. Francis Dr., Santa Fe, NM 87505. Published in the Artesia Daily Press, Artesia, N.M., Feb. 17, 2012. Legal No 22031.

Item XIII:



Item XIII:



Item XIII:













Item XIII:









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19	18	17	16	15	14	13	12	<u> </u>	10	9	8	7	6	თ	4	ω	2	_	Row
IIIB.(2)	IIIB.(2)	IIIB.(2)	IIIB.(2)		_			Ξ		≡	=				=	=	=		C-108
IIIB.(2) What will be the disposal tubing size OD?3-1/2" Packer Seat, Feet:approx 8,100'	Is the disposal interval OpenHole? or Perfed? X or Both?	IIIB.(2) Proposed disposal Bottom Depth:approx 8,500'Formation Name:Cisco	IIIB.(2) Proposed disposal Top Depth: approx 8,150' Formation Name: Cisco	INTERVAL TOP and BOTTOM:	General Summary of Planned Work to Well: New drill to TD 9,000', run 7" csg production string, cmt to surface, Perf and acidize.	Current Well Status: New Drill	General Location (i.e. Y miles NW of Z): located 2.2 miles north of the junction of US-82 and NM-380	Proposed wellFootages900' FSL & 2530' FELUnitO Sec15Tsp17SRge28ECountyEddy	Have you included API numbers on all wellbore diagrams and well list(s) in this application? Yes	API Num: 30-025-XXXXX Spud Date: New Drill	Well Name: Vermejo SWD #1	Are all Rule 5.9 issues OK to allow the Division to issue Disposal Permits?	Is there any hearing order finding this operator out of compliance with Division Rule 19.15.5.9 NMAC?	RULE 5.9 ComplianceNumber of Inactive Wells 0 vs Total Wells Operated 1270 Is financial assurance required on any well? Yes-53 wells 0 wells in violation	Operator Name: Cimarex Energy Company of Colorado OGRID Num: 162683	Did you Include a contact Email in the application? Yes and Mailing Address? Yes and Phone? Yes	Name of person submitting the application: Kay Havenor Other Contact?	Operator, Well, and Contact info:	C-108 disposal application submittals CHECKLIST to ensure all items are supplied or considered.

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3/	<u>.</u>	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	Row C-108
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Are the wellbore diagrams for this well included in the ApplicationBefore Conversion? New Drill and After Conversion? Yes		Are all existing Logs (including any CBL over the disposal interval) are on the OCD Web Site? New Drill If logs not there, please send	What is the top300' and bottom454' of the Salado Salt reported in one nearby cable tool well. Most wells report redbeds and anhydrite.	Does the application include a list of Formation tops down to and including the bottom of the target formation? Yes	Insitu water analysis Included? No Is the salinity within the disposal interval more than 10,000 mg/l of 1DS? 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.	sal is a depleted producer (within the proposed interval); do you know what was the cumulative oil/ginterval?	Is a discussion included of the potential for future OIL/GAS recovery from the proposed disposal interval? Yes	AT PROPOSED WELLINSITU WATERS AND HYDROCARBON POTENTIAL:	Are Waste waters compatible with proposed disposal interval waters? Yes Did you include waste water analysis? No	Which formations will supply the waste waters to be disposed into this well List most commonArtesia Group to Abo	Will this be a Lease Only disposal well? or only used for the Operator's own waste needs?X or Commercial Disposal?	WASTE WATERS:	Included "Affirmative Statement" concerning any Connection from Disposal Depths to existing Fresh Waters?Yes Item XII	Are all "Fresh" waters isolated with Casing and Cement?Yes("Fresh" water is defined as less than 10,000 mg/l of TDS)	Any Fresh Water Wells Within 1 Mile?None reported If so, did you attach an analysis from these Wells?None available	Depth to bottom of Fresh Waters: est less than 150" Formation Name(s)? Quaternary alluvium	FRESH WATERS:	What max surf inj. psi are you proposing? 1,630 If differing from 0.2 psi/ft surf. Grad., is supporting data attached such as a Step Rate Test?	C-108 disposal application submittals CHECKLIST to ensure all items are supplied or considered.

56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	Miss Row
S	≦	<u>≤</u>	≤	≤	≤	<u>≤</u>	S	≤	<		×	≚	≚	¥	<	X			Row C-108
Is there any Karst or Massive Limestone in this target formation? Noor in the formations directly above or below? No	For the target formation, is there significant formation structural depth changes within the 1/2 mile AOR? No	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	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?	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	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	Did you include wellbore diagrams for all P&Aed wells that exist within the 1/2 mile AOR that penetrate the disposal interval? No P&A deep wells in AOR	Does this list identify all wells penetrating (at least the top of) the disposal interval within 1/2 mile of the proposed well? Yes	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	Did you include a map identifying all wells within 2 miles? Yes	Area of Review:	Who owns the surface lands at the disposal well site (BLM, SLO, or who)? BLM - Surface leased Was that party formally noticed? Yes_	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?	If reentering a P&Aed well, are there depth divisions of ownership within that well?f so, have you also noticed all the shallower interests of the intent to use the well for disposal?	Did you identify the owner(s) of each of these separately owned tracts? Yes, in Were they all formally noticed? Yes	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	Date of the Newspaper Notice in the County: 2/18/2012 Eddy Co.	NOTICE:	Are the top and bottom footage of the proposed disposal interval marked on the "after" diagram? Yes	C-108 disposal application submittals CHECKLIST to ensure all items are supplied or considered.

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60	59	58	57	Row
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Any other Issues?	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.	VI How many wells within the 1/2 mile AOR currently are producing (or still have open perforations) within the disposal interval? is it "gas" or "oil"?	Administrative or Hearing:	Miss Row C-108 C-108 disposal application submittals CHECKLIST to ensure all items are supplied or considered.

	WFXPMX(1201	Permit Date 3/12/	2_uic Q	tr G(F	[M]
	# Wells Well Name(s):		0#1			
	API Num: 30-0 5 - NA	Spud [New/Old:	UIC primacy Marc	h 7, 1982)
	` i	2530FEL Uni	t OSec 15 Tsp		Rge 28E County	
	General Location:					
	Operator: Cimoray E	wary Co or	l GLORI	BPContact	Kay Hy	AV ENOR
	OGRID: 162383 RULE	5.9 Compliance (Wells	2	(Finan As		
	Well File Reviewed Current	Status: Vew	siel			
	Planned Work to Well:					
	Diagrams: Before Conversion	After Conversion Sizes	Elogs in Imaging File:	Stage	Cement	Determination
	Well Details:	HolePipe	Depths	Tool	Sx or Cf	Method
	NewExisting Surface	17/2 13/8	400		4005X	CIRC
	New_ExistingInterm	12/4 95/8 83/4 7	2100	750	1200 SX	CIRC
	New_ExistingLongSt	5-74 (900'	7500	3300 SX	CIRO
 -	New_ExistingLiner			1		
	New_Existing _ OpenHole	Danaha Fa	F	T0	<u> </u>	
	Depths/Formations:	Depths, Ft.	Formation	Tops?	•	
	Formation(s) Above					
	Injection TOP:	18150	CBCo	Max. PSI	630 OpenHole_	Perfs
	Injection BOTTOM:	8500	Cisco	Tubing Size	1	C > 1 1
	Formation(s) Below					,
10	Capitan Reef?(Potash?	Noticed?) [WIF	P?Noticed?] Salado Top	/Bot 3 00 - 15	Chiff House?
.J	Fresh Water: Depths:	150 Formation C	PAL Wells?	Novem	Talysis?Affirmative	Statement
	1 -	<i></i>	wer for			
	Disposal Interval: Analysis?	Production Potentia فرنست	al/Testing: STa	lamit	in XII	
	Notice: Newspaper Date 21	7/12 Surface Owner	BLM (2/17/	Mineral Owner(s)	
	RULE 26.7(A) Affected Persons	_	List/2	(17/2)		
	AOR: Maps? Well List?	Producing in Interval	2 NO Wellbore Diagr	rams?		
	Active Wells 2 Repai	rs? OWhichWells?				
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/ _ (Issues:	SWAB T	et for	- 1	Request Sent _	Reply:
	3/8/2012/1:44 PM		Page 1 of 1		SWE	_Checklist.xls/ReviewersList