NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

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



ABOVE THIS LINE FOR DIVISION USE ONLY

201 JUL 15 A 10: 27

Т	HIS CHECKLIST IS N	MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS WHICH REQUIRE PROCESSING AT THE DIV		RULES AND REGULATIONS
Applic	[DHC-Dov [PC-P	s: andard Location] [NSP-Non-Standard Prorat vnhole Commingling] [CTB-Lease Commin ool Commingling] [OLS - Off-Lease Storag [WFX-Waterflood Expansion] [PMX-Press	ion Unit] [SD-Simultaneo ngling] [PLC-Pool/Lease pe] [OLM-Off-Lease Mea sure Maintenance Expans	Commingling] surement] ion]
[1]	TYPE OF A	[SWD-Salt Water Disposal] [IPI-Inject alified Enhanced Oil Recovery Certification]  PPLICATION - Check Those Which Apply Location - Spacing Unit - Simultaneous De □ NSL □ NSP □ SD  k One Only for [B] or [C] Commingling - Storage - Measurement □ DHC □ CTB □ PLC □ PC	for [A] edication	SWD#
	Chec [B]	k One Only for [B] or [C]  Commingling - Storage - Measurement  □ DHC □ CTB □ PLC □ PC		DENOUNAY
	[C]	Injection - Disposal - Pressure Increase - E  ☐ WFX ☐ PMX X SWD ☐ IPI	nhanced Oil Recovery	
	[D]	Other: Specify		
[2]	NOTIFICAT [A]	TION REQUIRED TO: - Check Those Whice  ☐ Working, Royalty or Overriding Royalty		pply
	[B]	X Offset Operators, Leaseholders or Surfa	ce Owner	
	[C]	X Application is One Which Requires Pu	blished Legal Notice	
	[D]	X Notification and/or Concurrent Approv U.S Bureau of Land Management - Commissioner of Publ	ral by BLM or SLO ic Lands, State Land Office	
	[E]	☐ For all of the above, Proof of Notificati	ion or Publication is Attacl	ned, and/or,
	[F]	☐ Waivers are Attached		
[3]		CCURATE AND COMPLETE INFORMATATION INDICATED ABOVE.	TION REQUIRED TO P	ROCESS THE TYPE
	val is <b>accurate</b> a	ATION: I hereby certify that the information and complete to the best of my knowledge. I equired information and notifications are subm	also understand that no ac	
	Note: Statemen	t must be completed by an individual with manageria		
Kay H	lavenor	Kay C Havenor	Consultant	6/13/2011
Print o	or Type Name	Signature	Title	Date
			KHavenor@georesour	ces.com

e-mail Address

Cimarex Energy Co. 600 N. Marienfeld, Suite 600 Midland, TX 79705

Contact party: Kay Havenor 575-626-4518 KHavenor@georesources.com

#### C-108 Ancillary Data

- 1. API: 30-025-NA
- 2.. Original Lease Name: None. New well. New name used here: JG SWD
- 3. Legal publication lay distance description:
  - "1.5 miles southwest of Maljamar, NM"
- 4. AOR data: All wells are shown in summary and detail in **Item VI**: Data on unplugged wells in AOR that penetrate proposed disposal zone: None.
- 5. AOR well count as shown in **Item VI:** 0 wells penetrate injection zone. 75 total wells in AOR
- 6. P&A wells in AOR count: 12 all TD wells above proposed injection interval.
- 7. List of formation tops applicable to AOR: Yates 2080, Seven Rivers 2420, Queen 3020, San Andres 3770, Glorieta 5260, Paddock 5310, Binebry 6015, Tubb 6800, Abo 7500, Wolfcamp 9350, Cisco 10050, Strawn 11500, Atoka 11890, Morrow 12274, Mississippian 12550, Woodford 13600, Siluro-Devonian 13730.
- 8. Producing or non-P&A wells in proposed disposal AOR: Wells that penetrate proposed disposal interval: None that penetrate disposal interval. 63 non-P&A in upper zones.
- 9. Is proposed SWD in a depleted zone/well? No.
- 10. Why is proposed interval non-productive? Water-wet in up-structure well.
- 11. Notification and related acreage:

Sec 9: Units M - O

Sandridge Exploration and Production, LLC

Sec. 16: Cimarex Energy Co. Units C - F, M - P. (some joint ops w/ConocoPhillips)
Penroc Oil Corp. Deep rights under Cimarex Energy Units C - F, M - P.
COG Units A - B, G - L

Sec. 17: ConocoPhillips E/2 E/2

- 12. Surface owner, as shown in Item XIII, State of New Mexico Land Office
- 13. Rule 5.9 status of applicant: Financial status in compliance. Inactive wells include: See p. 2
- 14: Location of well as to Potash or other sensitive areas: Not within R-111-P.

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:
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,</li> <li>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.).</li> </ol>
*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:
*	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 16	2383)		
WELL NAME & N	UMBER: JG SWD #1	•			30-025-NA	
WELL LOCATION	: 1800' FNL & 1400' FEL FOOTAGE LOCATION	F UNIT LETTER	16 SECTION		S 32E NSHIP RANGE	<u> </u>
	WELLBORE SCHEMATIC				RUCTION DATA Casing	
		Hole Size:	17-½"		Casing Size: 13-3/8"	48# H-40
	See attached diagram	Cemented with:	600	sx.	or	ft <sup>3</sup>
		Top of Cement:	Surface		Method Determined:	<u>Opr</u>
			<u>Int</u>	ermedia	ate Casing	
		Hole Size:	12-14""		Casing Size: 9-5/8" 40	# N-80
		Cemented with: _	1450	sx.	or	ft³
		Top of Cement: _	Surface		Method Determined:_	Opr
			<u>P</u>	roductio	n Casing	
		Hole Size:	8-3/4"		Casing Size: <u>5-1/2" 17/20</u>	)# to 13,730' ±
		Cemented with:	2300 sxs	sx.	or	ft³
		Top of Cement:	Surface		Method Determined:	Opr
		Total Depth: A	pprox 13,900'			
		•	<u>I</u>	<u>njection</u>	Interval	
			13,730'±		To13,900'±	
			•			

(Perforated or Open Hole; indicate which) Open Hole

#### INJECTION WELL DATA SHEET

## INJECTION WELL DATA SHEET Tubing Size: 3-1

	eker Setting Depth:Approx 13,700 ft  ner Type of Tubing/Casing Seal (if applicable):
	Additional Data
	Is this a new well drilled for injection?XYesNo
	If no, for what purpose was the well originally drilled?
·.	Name of the Injection Formation: Siluro-Devonian
	Name of Field or Pool (if applicable):
<b>}</b> .	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. NA

Item V:

Diane Caswell, (5)

Marbob H. 8. P. 029406 B Area of Review
1/2 Mile AOR and 2 Mile Radius

WISER OIL (OPER) MALJAMAR GRBG. UNIT

Mack Ener

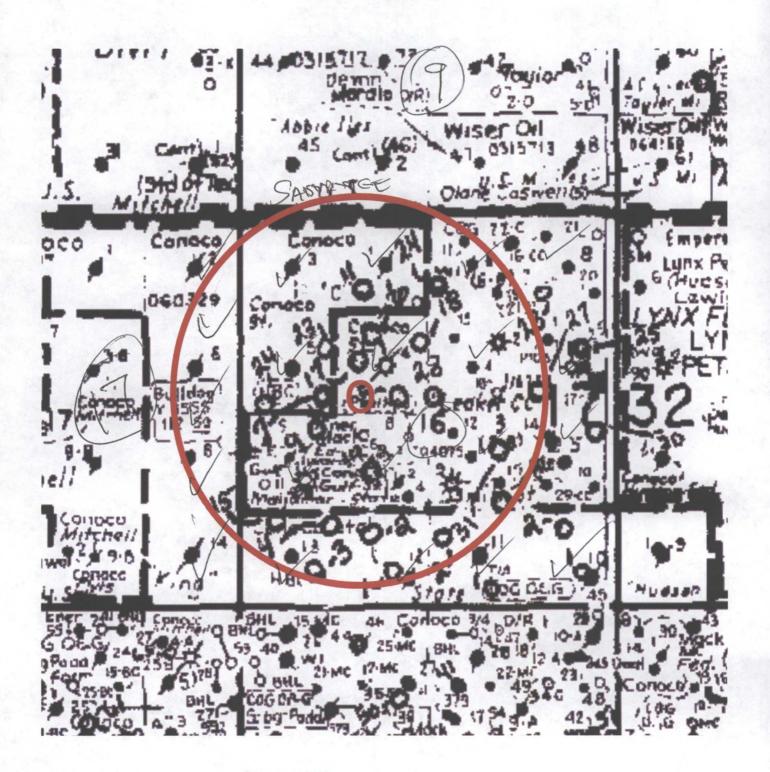
Nm Mitchell

MALSAMAR

NEW AGO WOOD WAR

Item V (a):

Area of Review ½ Mile AOR



Cimarex Energy Company JG SWD #1 1800' FNL & 1400' FWL

Sec. 16, T17S-R32E Lea County, NM

Item VI: Data on wells in AOR:

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

No wells in the AOR penetrate the proposed injection interval.

**Item VI(b):** The following are wells located within the AOR.

API	WELL_NAME	STATUS	SEC	TWNSHF	RANGE	FT-NS	NS	FT-EW	EW	OCD UL	OPERATOR	LAND	TYPE	PLUG	SPUD	ELEV-GL	TVD
3002500572	LEAKER CC 006	Plugged	16	17.05	32E	660	N	1980	Ε	В	MACK ENERGY CORP	S		5/27/1998	6/27/1959	4072	4195
3002538620	LEAKER CC STATE 011	Active	16	17.0S	32E	330	N	2160	Ε	В	COGOPERATING LLC	S	0		4/2/2008	4075	7015
3002539030	LEAKER CC STATE 019	New (Not drilled	16	17.0S	32E	990	N	1650	Ε	В	COG OPERATING LLC	S	0		9/10/2009	4079	7016
3002539695	LEAKER CC STATE 022	New (Not drilled	16	17.0S	32E	405	N	1505	Ε	В	COG OPERATING LLC	S	0		7/1/2010	4082	7121.
3002539838	LEAKER CC STATE 024	New	16	17.0S	32E	990	N	2310	Ε	В	COG OPERATING LLC	S	0		2/20/2011	4068	7035
3002500583	MCA UNIT 004	Plugged	16	17.0S	32E	660	N	1980	W	С	CONOCO INC		0	3/7/1988	1/23/1945	4062	4154
3002539936	JG STATE 011	New (Not drilled	16	17.0S	32E	990	N	1650	W	С	CIMAREX ENERGY CO.	S	0			4058	0
3002540027	JG STATE 012	New (Not drilled	16	17.0S	32E	520	N	2310	W	С	CIMAREX ENERGY CO.	S	0			4064	0
3002540028	JG STATE 020	New (Not drilled	16	17.08	32E	330	N	1550	W	С	CIMAREX ENERGY CO.	S	0			4058	0
3002500582	MCA UNIT 003	Plugged	16	17.0S	32E	660	N	660	W	D	CONOCOINC	S	0	1/25/1990	1/25/1990	4050	3985
3002540023	JG STATE 009	New (Not drilled	16	17.08	32E	990	N	330	W	D	CIMAREX ENERGY CO.	S	0			4045	0
3002540024	JG STATE 010	New (Not drilled	16	17.0S	32E	330	N	990	W	D	CIMAREX ENERGY CO.	S	0			4055	0
3002540029	JG STATE 021	New (Not drilled	16	17.0S	32E	330	N	330	٧	D	CIMAREX ENERGY CO.	S	0			4050	0
3002540030	JG STATE 022	New (Not drilled	16	17.0S	32E	900	N	845	Ε	D	CIMAREX ENERGY CO.	S	0			4050	0
3002500580	MCA UNIT 005	Active	16	17.0S	32E	1980	N	660	W	Ε	CONOCOPHILLIPS CON	S	0		6/27/1941	4044	4054
3002539935	JG STATE 007	New	16	17.0S	32E	2210	N	990	W	Ε	CIMAREX ENERGY CO.	S	0		3/20/2011	4050	0
3002539937	JG STATE 023	New (Not drilled	16	17.0S	32E	1700	N	990	W	E	CIMAREX ENERGY CO.	S	0			4050	0
3002539938	JG STATE 024	New (Not drilled	16	17.0S	32E	2310	N	330	,W	E	CIMAREX ENERGY CO.	S	0		4/2/2011	4041	0
3002500581	STATE O 001	Plugged	16	17.0S	32E	1980	N	1980	W	F	CONOCOINC	S	G	10/17/1989	10/26/1941	4065	3767
3002539934	JG STATE 006	New (Not drilled	16	17.0S	32E	1650	N	1650	W	F	CIMAREX ENERGY CO.	S	0			4058	0
3002539799	JG STATE 005	New	16	17.0S	32 <b>E</b>	2310	Ν-	2050	W	F	CIMAREX ENERGY CO.	Sí	0		9/8/2010	4060	7013
3002539800	JG STATE 017	New	16	17.0S	32 <b>E</b>	2050	N	1650	W	F	CIMAREX ENERGY CO.	S	0		10/9/2010	4059	6984
3002539801	JG STATE 018	New	16	17.0S	32E	1650	N	2310	W	F	CIMAREX ENERGY CO.	S	0		10/23/2010	4056	7027
3002500566	LEAKER CC STATE 002	Active	16	17.0S	32E	1650	N	1650	E	G	COG OPERATING LLC	S	G		7/8/1956	402	4202

Cimarex Energy Company

JG SWD #1

1800' FNL & 1400' FWL

Sec. 16, T17S-R32E Lea County, NM

Item VI(b): Continued

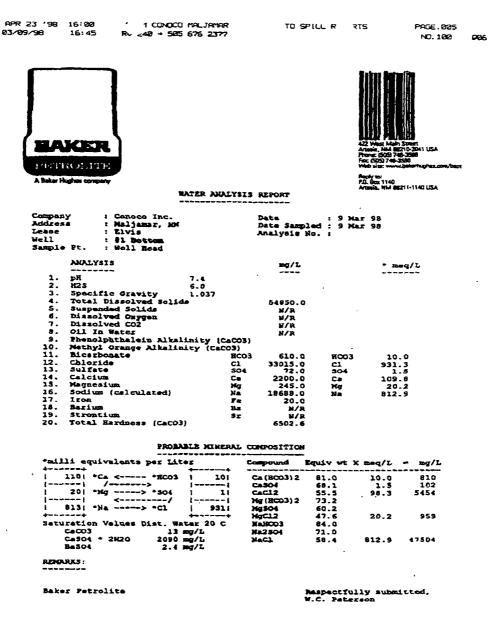
API				тт												
300259379   LEAKER C STATE 017   New   18   7.05   32E   210 N   390   E   G   COG OPERATING LLC   S   O   99272009   3767   5705   57025											<del></del>		PLUG			
2002599292   LEAKER CC STATE 09   New   16   7/95   32E   239 N   890 E   0   COG OPERATING LLC   S   0   1/19/200222090   4497   7/205   2002599392   LEAKER CC STATE 007   Plugged   17/95   32E   299 N   960 E   1   COG OPERATING LLC   S   0   1/19/2002   3/19/2002																
200259979   LEAKER CC STATE 029   New   10   70   70   70   70   70   70   70												-				;
2002059978   LEAKER CC STATE GOT   Plugged   16   17.08   22E   1890 N   560 E   H   CONCOPPENTATO S   O   SPIRIPSO   4064   417.09   2002059893   LEAKER CC STATE GOT   Acute   16   17.06   32E   1850 N   350 E   H   COLO GPERATMQLLC   S   O   SPIRIPSO   4065   71.00   2002059893   LEAKER CC STATE GOT   Acute   16   17.06   32E   1850 N   350 E   H   COLO GPERATMQLLC   S   O   47.7201   4062   71.00   2002059893   LEAKER CC STATE GOT   Acute   16   17.06   32E   210 N   350 E   H   COLO GPERATMQLLC   S   O   47.7201   4062   71.00   4062												_				
3002525898 LAVER CC STATE 007											_					–
SODESSASSE LEAKER CC STATE 05   Active   16   77.08   32E   1850 N   390 E   H   COG OPERATINGLIC   S   O   4/9/201   4/962   7/92   3/9025/39392   LEAKER CC STATE 05   New   16   77.08   32E   2210 N   390 E   H   COG OPERATINGLIC   S   O   4/9/201   4/952   3/953   3/952											_					
200259392   EAMER CC STATE 07   New   16   77.08   32E   320 N   330 E   H   COG OPERATING LLC S   O   419/2019   4065   77.09   3002533936   EAMER CC STATE 07   New   16   77.08   32E   230 N   390 E   H   COG OPERATING LLC S   O   819/2019   4065   77.05   300253976   EAMER CC STATE 05   Active   16   77.08   32E   300 S   806 E   H   COG OPERATING LLC S   O   819/2019   4065   77.05   4060   4												_	8/11/1960			1
2002539392   EAMER CC STATE 07   New											_	_				1
3002593789 LEAKER CC STATE 027   New   18   17 0S   32E   2310 N   390 E   H   COG OPERATING LC S   O   6/31/2010   495   71/15   3002593781 LEAKER CC STATE 010   Active   16   17.0S   32E   1800 S   808 E   H   COG OPERATING LC S   O   6/28/2019   4033   7025   702											_					
3002593973 LEAKER CC STATE 004   10																
3002593780   LEAKER CC STATE 010									Н		_	_				[
3002539735   LEAKER CC STATE 019									ı			_				
3002539780   LEAKER C STATE 030   New Mort dilled   17 0S   32E   1850 S   330 E   1   COG OPERATING LIC   S   O   10/23/2009   40/28   70/23   70/2									ı		_	_				- 1
300253388   LAKER C S TATE 023   Active   18   17 0S   32E   180 0S   180 0E   1   COG OPERATINGLIC   S   O   21/23/939   4023   4738   3002530873   LAKER C S TATE 003   Active   18   17 0S   32E   180 0S   2310 E   J   COG OPERATINGLIC   S   O   10/47/839   4023   4038   3002530873   LAKER C S TATE 001   Active   18   17 0S   32E   180 0S   2310 E   J   COG OPERATINGLIC   S   O   10/47/839   4023   4038   3002530873   LAKER C S TATE 001   Active   18   17 0S   32E   1800 S   1850 E   J   COG OPERATINGLIC   S   O   10/47/839   4022   4039   00302530873   LAKER C S TATE 001   Active   18   17 0S   32E   2310 S   1850 E   J   COG OPERATINGLIC   S   O   54/2011   4039   00302530873   LAKER C S TATE 002   Active   18   17 0S   32E   2310 S   2310 E   J   COG OPERATINGLIC   S   O   64/2020   300253073   Active   18   17 0S   32E   2310 S   2310 E   J   COG OPERATINGLIC   S   O   64/2020   300253073   Active   18   17 0S   32E   2310 S   2310 E   J   COG OPERATINGLIC   S   O   64/2020   300253073   Active   18   17 0S   32E   2310 S   2310 E   J   COG OPERATINGLIC   S   O   64/2020   300253073   Active   18   17 0S   32E   2310 S   2310 E   J   COG OPERATINGLIC   S   O   64/2020   300253073   Active   18   17 0S   32E   1720 S   2210 V   K   PHILLIPS PETROLEUM O   S   O   11/20/1911   8/31/1914   4040   4/75   3002530874   Active   18   17 0S   32E   1700 S   32E   300 S   380 V   K   PHILLIPS PETROLEUM O   S   O   34/22/008   4002   3002530875   Active   18   17 0S   32E   230 S   800 V   K   COG OPERATINGLIC   S   O   34/22/008   4002   3002530875   Active   18   17 0S   32E   1800 S   800 V   K   COG OPERATINGLIC   S   O   34/22/008   4002   3002530875   Active   18   4002   Active   18   17 0S   32E   1800 S   800 V   K   COG OPERATINGLIC   S   O   34/22/008   4002   3002530875   Active   18   4002   Acti									ı		_			8/19/2008		- 1
2000-2500659   LEAMER C STATE 003   Active   18   17.05   32E   1890 S   1890 E   J   COG OPERATINGLIC   S   O   1075/1893   4022   4389   3002530673   LEAMER C STATE 015   Active   16   17.05   32E   1890 S   1890 E   J   COG OPERATINGLIC   S   O   1075/1893   4022   4039   300253983   LEAMER C STATE 015   Active   16   17.05   32E   2310 S   1890 E   J   COG OPERATINGLIC   S   O   1075/1893   4022   4039   300253983   LEAMER C STATE 015   New   16   17.05   32E   2310 S   1890 S   1890 E   J   COG OPERATINGLIC   S   O   5.742011   4039   7045									ı		_	-				- 1
2002539678   LEAKER CC STATE 019									-			_				
3002539873   LEAKER C S TATE 0 15									-			_				
3002539761   LEAKER CC STATE 028   New   Not dilled   16   17 0S   32E   2310 S   1850 E											_	_				1
3002239392   LEAKER CC STATE 102   New   16   17.0S   32E   150.0 S   150.									=					11/15/2008		}
2002253873   LEAKER CC STATE 012   New   16   17.08   32E   2310   S   2310   E   J   COLG OPERATINISLIC   S   O   6712508   3253   7018   3002250875   EDWARD STATE 002   Active   16   17.08   32E   1980   S   1880   V   K   COLG OPERATINISLIC   S   O   6712508   4023   40			New (Not drilled	1 16											4039	- {
3002509578 EDWARD STATE 002   Active   18   17.08   32E   1720 S   2240 W   K   COG OPERATING LLC   S   C   1120141   3314144   404   4775   300253873   EDWARD STATE 004   Active   18   17.08   32E   1500 S   2290 W   K   COG OPERATING LLC   S   C   517172008   4033   7025   7012   3002538884   EDWARD STATE 008   Active   18   17.08   32E   2310 S   1850 W   K   COG OPERATING LLC   S   C   517172008   4032   7012   3002538884   EDWARD STATE 008   New   18   17.08   32E   2310 S   1850 W   K   COG OPERATING LLC   S   C   517172008   4043   7012   7			New						_		_					
2002539362   EDWARD STATE 004   Active   6   17.0S   32E   1980 S   1980 V   COG OPERATING LLC   S   O   31/12/038   4033   7025   3002539834   EDWARD STATE 006   Active   16   17.0S   32E   2310 S   1650 V   K   COG OPERATING LLC   S   O   31/12/038   4032   7025   3002539834   EDWARD STATE 008   Active   16   17.0S   32E   2310 S   1650 V   K   COG OPERATING LLC   S   O   31/12/038   4052   7012   3002539836   EDWARD STATE 008   New   16   17.0S   32E   2310 S   1650 V   K   COG OPERATING LLC   S   O   31/12/038   4052   7012   3002539936   EDWARD STATE 010   New   16   17.0S   32E   1850 S   8680 V   K   COG OPERATING LLC   S   O   81/12/1570   4703   7015   300253957   EDWARD STATE 010   New   16   17.0S   32E   2310 S   350 V   L   COG OPERATING LLC   S   O   81/12/1570   87/1144   4044   4216   3002539582   EDWARD STATE 005   Active   16   17.0S   32E   2310 S   350 V   L   COG OPERATING LLC   S   O   81/12/1570   87/1144   4044   4216   3002539582   EDWARD STATE 005   Active   16   17.0S   32E   2310 S   330 V   L   COG OPERATING LLC   S   O   21/10/2008   4041   7040   3002539583   EDWARD STATE 011   New   16   17.0S   32E   1850 S   330 V   L   COG OPERATING LLC   S   O   11/12/2000   4049   8083   3002539583   EDWARD STATE 011   New   16   17.0S   32E   1850 S   330 V   L   COG OPERATING LLC   S   O   11/12/2000   4049   8083   3002539583   EDWARD STATE 011   New   16   17.0S   32E   850 S   330 V   L   COG OPERATING LLC   S   O   11/12/2000   4040   7020   3002539583   EDWARD STATE 011   New   16   17.0S   32E   850 S   860 W   L   COG OPERATING LLC   S   O   11/12/2000   4040   7020   3002530953   EDWARD STATE 011   New   16   17.0S   32E   850 S   860 W   L   COG OPERATING LLC   S   O   11/12/2000   4040   7020   3002530953   EDWARD STATE 011   New   16   17.0S   32E   850 S   860 W   L   COG OPERATING LLC   S   O   11/12/2000   4040   7020   3002530953   EDWARD STATE 010   New   16   17.0S   32E   850 S   860 W   L   COG OPERATING LLC   S   O   11/12/2000   4040   7020   3002530953   EDWARD STAT																
3002539372   EDWARD STATE 004   Active   16   17.0S   32E   2310 S   2230 V   K   COG OPERATINGLIC   S   O   9/12/2008   4032   7025   3002539382   EDWARD STATE 008   New   16   17.0S   32E   2310 S   2310 V   K   COG OPERATINGLIC   S   O   9/12/2010   4043   7025   3002539382   EDWARD STATE 010   New   16   17.0S   32E   2310 S   2310 V   K   COG OPERATINGLIC   S   O   9/12/2010   4043   7025   3002539382   EDWARD STATE 010   New   16   17.0S   32E   1808 S   680 V   L   COG OPERATINGLIC   S   O   9/12/2011   4033   7005   3002530575   EDWARD STATE 003   Active   16   17.0S   32E   1808 S   680 V   L   COG OPERATINGLIC   S   O   8/12/1370   9/11/141   4044   4216   3002530575   EDWARD STATE 003   Active   16   17.0S   32E   2310 S   330 V   L   COG OPERATINGLIC   S   O   9/12/1370   4041   7046   3002530575   EDWARD STATE 003   Active   16   17.0S   32E   2310 S   330 V   L   COG OPERATINGLIC   S   O   2/10/2008   4041   7046   3002530582   EDWARD STATE 007   New   16   17.0S   32E   1808 S   330 V   L   COG OPERATINGLIC   S   O   12/17/2008   4043   6068   3002530583   EDWARD STATE 007   New   16   17.0S   32E   1508 S   330 V   L   COG OPERATINGLIC   S   O   12/17/2008   4043   6068   3002530583   EDWARD STATE 007   New   16   17.0S   32E   2310 S   330 V   L   COG OPERATINGLIC   S   O   12/17/2008   4043   6068   3002530578   MCA UNIT 013   Active   16   17.0S   32E   2310 S   330 V   L   COG OPERATINGLIC   S   O   12/17/2008   4043   7020   3002530578   MCA UNIT 013   Active   16   17.0S   32E   330 S   330 V   L   COG OPERATINGLIC   S   O   12/17/2008   4043   7020   3002530578   MCA UNIT 013   Active   16   17.0S   32E   330 S   330 V   L   COG OPERATINGLIC   S   O   12/17/2008   4043   7020   3002530578   MCA UNIT 013   Active   16   17.0S   32E   330 S   330 V   L   COG OPERATINGLIC   S   O   12/17/2008   4043   7020   3002530578   MCA UNIT 013   Active   16   17.0S   32E   330 S   330 V   L   COG OPERATINGLIC   S   O   12/17/2008   4040   7020   3002530578   MCA UNIT 013   Active   16   17.0S   32E	3002500576	EDWARD STATE 002	Active								_			6/11/1959	4029	1
3002539832   EDWARD STATE 006   Active   16   17.0S   32E   2310 S   1850 W   K   COG OPERATINGLIC   S   O   91/2/2008   4052   701/2   3002539882   EDWARD STATE 0018   New   16   17.0S   32E   2310 S   2310 W   K   COG OPERATINGLIC   S   O   91/2/2010   4043   701/5   30025395383   EDWARD STATE 001   New   16   17.0S   32E   1800 S   860 W   L   COD OPERATINGLIC   S   O   81/2/1970   81/1941   4044   421/6   3002539577   EDWARD STATE 0010   New   16   17.0S   32E   1800 S   800 W   L   COG OPERATINGLIC   S   O   81/2/1970   81/1941   4044   421/6												_	11/20/1941	8/31/1941	4040	
2002539832 EDWARD STATE 008   New   16   17 0S   32E   2310 S   2310 W   K   COG OPERATING LLC   S   O   3/22/2010   40/3   70/15   3002539303 EDWARD STATE 010   New   16   17 0S   32E   1850 S   1650 W   K   COG OPERATING LLC   S   O   1/27/2011   40/3   70/15   3002530675 GULF STATE 001   Plugged   16   17 0S   32E   1880 S   660 W   L   CONTINENTAL DUL   S   O   8/12/1970   8/11/311   40/4   42/6   3002530675 GULF STATE 003   Active   16   17 0S   32E   17/20 S   930 W   L   COG OPERATING LLC   S   O   3/22/1934   40/47   4168   3002530672 EDWARD STATE 003   Active   16   17 0S   32E   2310 S   330 W   L   COG OPERATING LLC   S   O   2/10/2008   40/41   70/40   3002530673 EDWARD STATE 007   New   16   17 0S   32E   1650 S   930 W   L   COG OPERATING LLC   S   O   2/10/2008   40/41   70/40   3002530638 EDWARD STATE 007   New   16   17 0S   32E   1650 S   930 W   L   COG OPERATING LLC   S   O   1/2/2008   40/41   70/40   3002530638 EDWARD STATE 007   New   16   17 0S   32E   1650 S   930 W   L   COG OPERATING LLC   S   O   1/2/2008   40/43   60/68   6	3002538730	EDWARD STATE 004	Active							COG OPERATING LLC	S			5/17/2008	4033	7025
3002539836 EDWARD STATE 010   New   16   17 0S   32E   1850 S   1850 W   K   COG OPERATING LLC   S   O   8/12/1970   8/11/1941   4034   7005   3002500577   EDWARD STATE 003   Active   16   17 0S   32E   1720 S   930 W   L   COG OPERATING LLC   S   G   9/28/1934   4044   4/18   4/18   3002530875   EDWARD STATE 005   Active   16   17 0S   32E   2310 S   330 W   L   COG OPERATING LLC   S   O   2/10/2008   4041   7408   3002530913   EDWARD STATE 005   Active   16   17 0S   32E   2310 S   330 W   L   COG OPERATING LLC   S   O   2/10/2008   4041   7408   3002530913   EDWARD STATE 007   New   16   17 0S   32E   1600 S   330 W   L   COG OPERATING LLC   S   O   2/10/2008   4041   7408   3002530913   EDWARD STATE 007   New   16   17 0S   32E   1600 S   330 W   L   COG OPERATING LLC   S   O   1/12/2010   4049   5069   3002530933   EDWARD STATE 007   New   16   17 0S   32E   2310 S   330 W   L   COG OPERATING LLC   S   O   1/12/2010   4049   5069   3002530935   EDWARD STATE 009   New   16   17 0S   32E   2310 S   330 W   L   COG OPERATING LLC   S   O   1/12/2010   4040   7020   3002530935   EDWARD STATE 009   New   16   17 0S   32E   2310 S   330 W   M   CONOCOPHILLIPS COMPANY   S   O   2/21/1968   4050   4150   3002530978   JG STATE 004   New   16   17 0S   32E   395 S   330 W   M   CIMAREX ENERGY CO. OP COLOR, S   O   3/15/2010   4036   7020   3002530978   JG STATE 004   New   16   17 0S   32E   390 S   330 W   M   CIMAREX ENERGY CO. OP COLOR, S   O   3/28/2010   4055   7020   3002530978   JG STATE 005   New   16   17 0S   32E   330 S   2310 W   M   CIMAREX ENERGY CO. OP COLOR, S   O   3/28/2010   4055   7020   3002530978   JG STATE 005   New   16   17 0S   32E   330 S   2310 W   M   CIMAREX ENERGY CO. OP COLOR, S   O   3/28/2010   4055   7020   3002530978   JG STATE 005   New   16   17 0S   32E   330 S   2310 W   M   CIMAREX ENERGY CO. OP COLOR, S   O   3/28/2010   4055   7020   3002530978   JG STATE 005   New   16   17 0S   32E   330 S   2310 W   M   CIMAREX ENERGY CO. OP COLOR, S   O   3/39/2007   8/419/30   4/22											_					1
3002500575 GULF STATE 0.01 Plugged 16 17.0S 32E 1990 S 660 W L CONTINENTAL OIL S G 8/12/1970 8/11/1941 4.044 4.216 3002500577 GULF STATE 0.03 Active 16 17.0S 32E 17/20 S 930 W L COG OPERATING LLC S G 9/12/1949 4.047 74/168 3002539019 EDWARD STATE 0.05 Active 16 17.0S 32E 21.0S 33.0 W L COG OPERATING LLC S O 21/10/2008 4.041 7040 3002539019 EDWARD STATE 0.07 New 16 17.0S 32E 1600 S 930 W L COG OPERATING LLC S O 12/17/2008 4.049 6.068 3002539038 EDWARD STATE 0.07 New 16 17.0S 32E 1600 S 930 W L COG OPERATING LLC S O 12/17/2008 4.049 6.068 3002539038 EDWARD STATE 0.09 New 16 17.0S 32E 1600 S 930 W L COG OPERATING LLC S O 12/17/2008 4.049 7020 3002539038 EDWARD STATE 0.09 New 16 17.0S 32E 1600 S 930 W L COG OPERATING LLC S O 14/1/2011 4.049 7020 3002539033 GSTATE 0.09 New 16 17.0S 32E 860 S 660 W M CONDCOPHILLIPS COMPANY S O 21/21/19/69 4.050 4	3002539682	EDWARD STATE 008	New								_	_		9/22/2010	4043	. ,
3002509577 EDWARID STATE 003 Active 16 17 08 32E 1720 S 990 W L COG OPERATING LLC S G 2/10/2008 4041 7040 3002509851 EDWARD STATE 005 Active 16 17 08 32E 1600 S 990 W L COG OPERATING LLC S O 12/10/2008 4041 7040 3002509919 EDWARD STATE 001 New 16 17 08 32E 1600 S 990 W L COG OPERATING LLC S O 12/10/2008 4041 7040 3002509853 EDWARD STATE 001 New 16 17 08 32E 1650 S 330 W L COG OPERATING LLC S O 11/2/2010 4040 7020 3002509853 EDWARD STATE 001 New 16 17 08 32E 1650 S 330 W L COG OPERATING LLC S O 11/2/2010 4040 7020 3002509579 MCA UNIT 013 Active 16 17 08 32E 2310 S 990 W L COG OPERATING LLC S O 11/2/2010 4040 7020 3002509579 MCA UNIT 013 Active 16 17 08 32E 2310 S 990 W L COG OPERATING LLC S O 11/2/2010 4040 7020 3002509579 MCA UNIT 013 Active 16 17 08 32E 3660 S 660 W M CONOCOPHILLIPS COMPANY S O 2/2/11/869 4050 4150 3002540021 JIG STATE 016 New (Not drilled 16 17.0S 32E 325 S 330 W M CIMAREX ENERGY CO. OP COLOR. S O 9/15/2010 4036 7032 3002539877 JIG STATE 004 New 16 17.0S 32E 890 S 390 W M CIMAREX ENERGY CO. OP COLOR. S O 9/15/2010 4055 7020 3002539920 JIG STATE 015 New 16 17.0S 32E 32E 330 S 2310 W M CIMAREX ENERGY CO. OP COLOR. S O 9/28/2010 4055 7020 3002540025 JIG STATE 015 New (Not drilled 16 17.0S 32E 330 S 2310 W M CIMAREX ENERGY CO. OP COLOR. S O 9/28/2010 4055 7020 3002540025 JIG STATE 015 New (Not drilled 16 17.0S 32E 330 S 2310 W M CIMAREX ENERGY CO. OP COLOR. S O 9/28/2010 4055 7020 3002540025 JIG STATE 014 New (Not drilled 16 17.0S 32E 355 S 1650 W M CIMAREX ENERGY CO. OP COLOR. S O 9/3/2010 4030 4030 4030 205540025 JIG STATE 001 New 16 17.0S 32E 350 S 250 W M CIMAREX ENERGY CO. OP COLOR. S O 9/3/2010 4030 4030 4030 205539979 JIG STATE 001 New 16 17.0S 32E 350 S 250 W M CIMAREX ENERGY CO. OP COLOR. S O 9/3/2010 4030 4030 4030 4030 4030 4030 4030 4			New													
20025398621   EDWARD STATE 005   Active   16   17 0S   32E   2310   S   330   W   L   COG OPERATING LIC   S   C   2/10/2008   4041   7040   3002539893   EDWARD STATE 007   New   16   17 0S   32E   1600   S   390   W   L   COG OPERATING LIC   S   C   11/17/2008   4049   4068   3002539893   EDWARD STATE 007   New   16   17 0S   32E   2310   S   390   W   L   COG OPERATING LIC   S   C   11/17/2008   4049   4040   7020   3002539835   EDWARD STATE 009   New   16   17 0S   32E   2310   S   390   W   L   COG OPERATING LIC   S   C   11/17/2011   4049   7020   3002539973   MCA UNIT 013   Active   16   17 0S   32E   2310   S   390   W   L   COG OPERATING LIC   S   C   11/17/2011   4049   7020   3002530973   MCA UNIT 013   Active   16   17 0S   32E   385   S   330   W   M   CIMAREX ENERGY CO. OF COLOR.   S   C   2/21/1969   4050   4150   4051   O   3002539973   JG STATE 004   New   16   17 0S   32E   390   S   390   W   M   CIMAREX ENERGY CO. OF COLOR.   S   C   3/15/2010   4058   7032   3002539973   JG STATE 003   New   16   17 0S   32E   390   S   330   W   M   CIMAREX ENERGY CO. OF COLOR.   S   C   3/25/2010   4058   7032   3002539973   JG STATE 005   New   16   17 0S   32E   390   S   330   W   M   CIMAREX ENERGY CO. OF COLOR.   S   C   3/25/2010   4058   7032   3002539973   JG STATE 005   New   16   17 0S   32E   390   S   2310   W   N   CIMAREX ENERGY CO. OF COLOR.   S   C   3/26/3911   12/15/1940   4034   4102   3002539873   JG STATE 001   New   (Not drilled   16   17 0S   32E   390   S   1550   W   N   CIMAREX ENERGY CO. OF COLOR.   S   C   4042   C   3002540025   JG STATE 001   New   (Not drilled   16   17 0S   32E   390   S   1550   W   N   CIMAREX ENERGY CO. OF COLOR.   S   C   4042   C   3002539873   JG STATE 001   New   16   17 0S   32E   390   S   1550   W   N   CIMAREX ENERGY CO. OF COLOR.   S   C   4042   C											_		8/12/1970			- 1
\$002539919 EDWARD STATE 007 New 16 17.0S 32E 1600 S 990 W L COG OPERATINGLIC S O 12/17/2008 4049 6069 300253983 EDWARD STATE 001 New 16 17.0S 32E 1650 S 330 W L COG OPERATINGLIC S O 11/2/2010 4040 7020 300253983 EDWARD STATE 009 New 16 17.0S 32E 2310 S 990 W L COG OPERATINGLIC S O 11/2/2010 4040 7020 3002509573 MCA UNIT 013 Active 16 17.0S 32E 660 S 660 W M CONOCOPHILLIPS COMPANY S O 2/2/1969 4050 4150 3002539798 JG STATE 016 New (Not drilled 16 17.0S 32E 385 S 330 W M CIMAREX ENERGY CO. OF COLOR. S O 9/15/2010 4036 7032 3002539798 JG STATE 004 New 16 17.0S 32E 390 S 990 W M CIMAREX ENERGY CO. OF COLOR. S O 9/15/2010 4036 7032 3002539798 JG STATE 015 New (Not drilled 16 17.0S 32E 390 S 990 W M CIMAREX ENERGY CO. OF COLOR. S O 9/15/2010 4036 7032 3002539981 JG STATE 015 New (Not drilled 16 17.0S 32E 390 S 330 W M CIMAREX ENERGY CO. OF COLOR. S O 9/15/2010 4036 7032 3002539981 JG STATE 015 New (Not drilled 16 17.0S 32E 890 S 330 W M CIMAREX ENERGY CO. OF COLOR. S O 9/15/2010 4055 7020 3002539920 JG STATE 015 New (Not drilled 16 17.0S 32E 890 S 330 W M CIMAREX ENERGY CO. OF COLOR. S O 11/15/2010 4046 7000 3002539930 JG STATE 015 New (Not drilled 16 17.0S 32E 890 S 2310 W N CIMAREX ENERGY CO. OF COLOR. S O 11/15/2010 4036 7030 3002539930 JG STATE 013 New (Not drilled 16 17.0S 32E 930 S 2310 W N CIMAREX ENERGY CO. OF COLOR. S O 4029 0 3002539937 JG STATE 014 New (Not drilled 16 17.0S 32E 350 S 250 W N CIMAREX ENERGY CO. OF COLOR. S O 9/13/2010 4030 7030 3002539816 JG STATE 001 New 16 17.0S 32E 930 S 1650 W N CIMAREX ENERGY CO. OF COLOR. S O 9/13/2010 4040 7021 4040 3002539820 TOURMALINE STATE 001 New 16 17.0S 32E 930 S 1650 E O CONOCOPHILLIPS COMPANY S O 3/91/2010 4040 7021 4030 3002539849 AQUAMARINE STATE 001 New 16 17.0S 32E 930 S 2310 E O CONOCOPHILLIPS COMPANY S O 11/12/2010 4041 6955 3002539849 AQUAMARINE STATE 001 New 16 17.0S 32E 930 S 250 E P CONOCOPHILLIPS COMPANY S O 11/12/2010 4041 6955 3002539849 AQUAMARINE STATE 001 New 16 17.0S 32E 930 S 740 E P CONOCOPHILLIPS COMPANY S O 11/12/2010 4041 6955 300253984	3002500577	EDWARD STATE 003	Active											9/28/1994	4047	4168
3002539833 EDWARD STATE 011 New 16 17.0S 32E 1650 S 330 W L COG OPERATING LLC S O 111/2/2010 4040 7020 3002539835 EDWARD STATE 009 New 16 17.0S 32E 2310 S 990 W L COG OPERATING LLC S O 14/4/2011 4049 7020 3002530579 MCA UNIT 013 Active 16 17.0S 32E 385 S 330 W M CIMAREX ENERGY CO. OF COLOR. S O 2/2/11/969 4050 10 3002539783 JG STATE 016 New 16 17.0S 32E 385 S 330 W M CIMAREX ENERGY CO. OF COLOR. S O 9/15/2010 4036 7032 3002539981 JG STATE 001 New 16 17.0S 32E 390 S 990 W M CIMAREX ENERGY CO. OF COLOR. S O 9/15/2010 4036 7032 3002539920 JG STATE 015 New 16 17.0S 32E 890 S 330 W M CIMAREX ENERGY CO. OF COLOR. S O 9/15/2010 4056 7032 3002539920 JG STATE 015 New 16 17.0S 32E 890 S 330 W M CIMAREX ENERGY CO. OF COLOR. S O 9/28/2010 4056 7032 3002539920 JG STATE 015 New 16 17.0S 32E 890 S 330 W M CIMAREX ENERGY CO. OF COLOR. S O 11/5/2010 4046 7000 30025400578 MCA UNIT 012 Plugged 16 17.0S 32E 890 S 2310 W N CONOCONIC I 2/8/1991 12/15/1940 4030 4122 3002540026 JG STATE 013 New (Not drilled 16 17.0S 32E 330 S 2310 W N CIMAREX ENERGY CO. OF COLOR. S O 11/5/2010 4046 7000 3002540026 JG STATE 013 New (Not drilled 16 17.0S 32E 355 S 1650 W N CIMAREX ENERGY CO. OF COLOR. S O 9/3/2010 4030 7030 3002539816 JG STATE 001 New 16 17.0S 32E 350 S 2010 W N CIMAREX ENERGY CO. OF COLOR. S O 9/3/2010 4030 7030 3002539816 JG STATE 001 New 16 17.0S 32E 850 S 2010 W N CIMAREX ENERGY CO. OF COLOR. S O 9/3/2010 4030 7030 3002539820 TOURMALINE STATE 001 New 16 17.0S 32E 860 S 1980 E O CONOCOPHILLIPS COMPANY S O 9/3/2010 4030 7030 3002539821 TOURMALINE STATE 001 New 16 17.0S 32E 850 S 250 E P CONOCOPHILLIPS COMPANY S O 11/2/2010 4040 7021 3002539849 AQUAMARINE STATE 001 New 16 17.0S 32E 850 S 250 E P CONOCOPHILLIPS COMPANY S O 11/20/2010 4040 8955 3002539850 AQUAMARINE STATE 001 New 16 17.0S 32E 850 S 250 E P CONOCOPHILLIPS COMPANY S O 11/20/2010 4040 8955 3002539850 AQUAMARINE STATE 001 New 16 17.0S 32E 850 S 250 E P CONOCOPHILLIPS COMPANY S O 11/20/2010 4040 8955 3002539850 AQUAMARINE STATE 001 New 16 17.0S 32E 850 S 250 E P CONOCOPHILLIP									_		•	_				
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Cimarex Energy Company JG SWD #1 1800' FNL & 1400' FWL

Sec. 16, T17S-R32E Lea County, NM

#### Item VII:

- 1. The maximum injected volume anticipated is 10,000 BWPD. Average anticipated is 8,000 BWPD.
- 2. Injection will be through a closed system.
- 3. Maximum injection pressure is expected to be 2,746 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 ConocoPhillip Company Elvis #1, Sec. 20, T17S-R32E, Lea Co., NM, API 30-015-33584, MCA Unit Devonian. (Source: Elvis #1 OCD well file):



#### **Item VIII:**

The Devonian carbonates in this area are dolomitized. Such carbonate alteration often results in enhanced porosity as is shown on the porosity logs. Testing in 30-025-33584, ConocoPhillips Co., Elvis No. 1, Sec. 20, T17S-R32E, confirms water in those carbonates which, additionally, are structurally higher than the Devonian in the target new well. The Devonian is overlain by Woodford Shale and Mississippian limestones that essentially prevent vertical migration of formation or disposal waters.



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found

Basin/County Search:

Basin: Lea County

UTMNAD83 Radius Search (in meters):

Easting (X): 614655

Northing (Y): 3633666

Radius: 3300

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 accoracy, completeness, reliability, washility, or suitability for any particular purpose of the data.

6/12/11 8:57 AM

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.

#### Item IX:

Acidize open-hole in the Siluro-Devonian between approximately 13,730' to 13,900' below 5-1/2" casing with approximately 20,000 gal of 20% HCl.

#### Item X:

Logs will be run on the new well and submitted to the OCD.

#### Item XI:

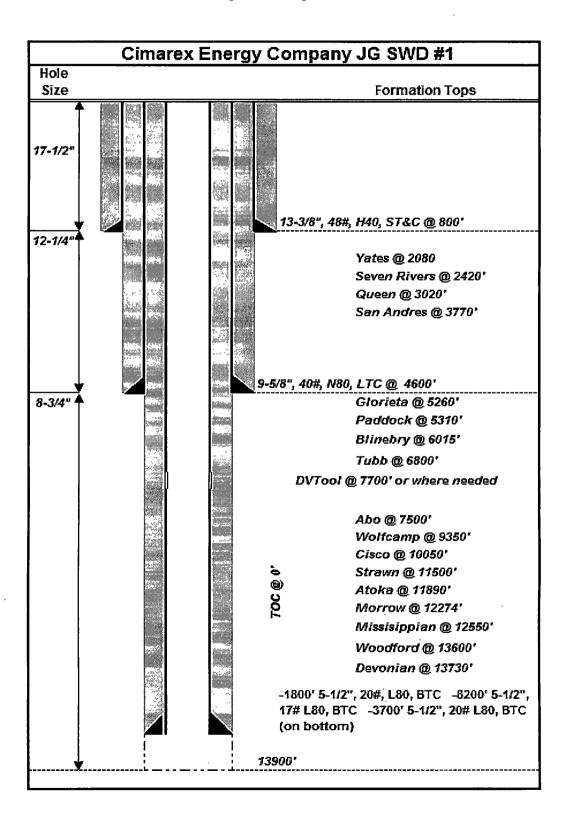
No water wells are reported the 2-mile area. Please note Item VIII discussion above.

#### Item XII:

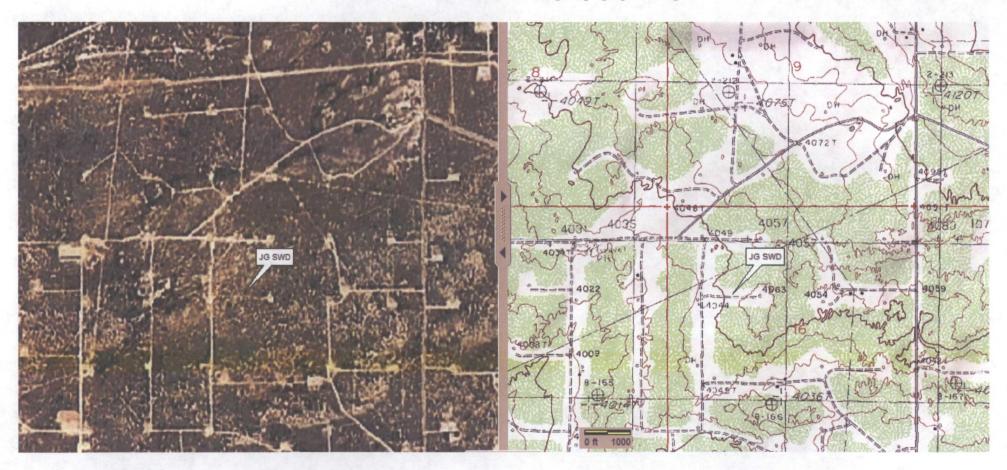
There is no geological evidence of open faults nor hydrologic connection between the disposal zone and any possible underground sources of protectable water.

Sec. 16, T17S-R32E Lea County, NM

Proposed Completion of SWD Well



SPOT10 Satellite and Matching Topographic Map



Directions to location: From Lovington west on US-82 for 25.5 miles to Maljamar and intersection of CR-126A, turn south on CR-126A (Mescalero Rd) for 0.6 miles, then west/southwest for 1.1 miles, turn east for 0.1 miles, then south for 0.2 miles to the well access road going to the east an additional 0.1 miles. Total 2.1 road miles from Maljamar. 1.5 miles 208° from Maljamar US-82 and CR-126A intersection.

#### Item XIII: Proof of Notice

#### **Minerals Owner:**

State of New Mexico Commissioner of Public Lands P.O. Box 1148 Santa Fe, New Mexico 87504-1148

#### **Operators:**

COG Operating, LLC 550 W. Texas St. Ste. 1300 Midland, TX 79701

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

Sandridge Exploration and Production, LLC 123 Robert Kerr Ave.
Oklahoma City, OK 73102

#### **Surface Owner:**

State of New Mexico Commissioner of Public Lands P.O. Box 1148 Santa Fe, New Mexico 87504-1148 Penroc Oil Corporation P.O. Box 2769 Hobbs, NM 88241

Item XIII: Legal 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 June 16, 2011 and ending with the issue of June 16, 2011.

And that the cost of publishing said notice is the sum of \$ 30.30 which sum has been (Paid) as Court Costs.

Joyce Clemens, Advertising Manager Subscribed and sworn to before me this 16th day of June, 2011.

Gina Fort

Thru tord

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



Legal Notice

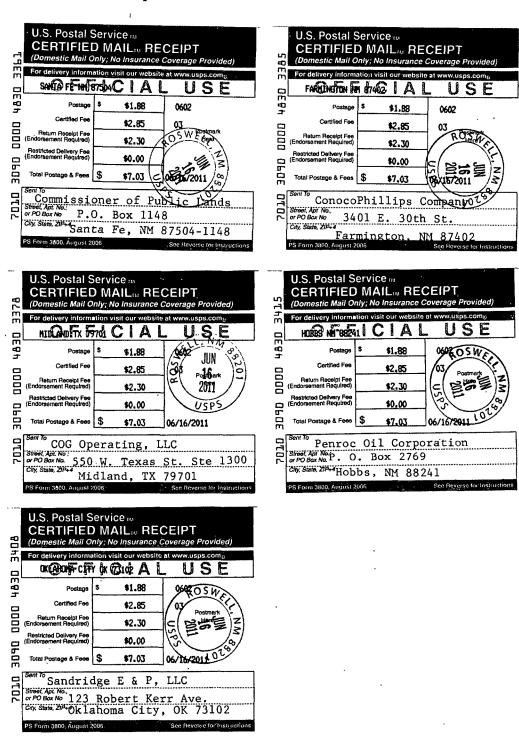
Cimarex Energy Company of Colorado, 600 N. Marientels St., Ste 600, Midland, Texas, 432-571-7800, is seeking approval from the New Mexico Oil Conservation Division to drill and complete the Cimarex Energy Company JG SWD #1 located 1800 feet from the north line and 1400 feet from the west line of Section 16, T175, R32E, Lea County, NM, 1.5 miles southwest of Maljamar, NM, and complete for non-commercial produced water disposal as the Cimarex Energy Company JG SWD #1. The proposed open-hole disposal Interval is the Siluro-Devonian formation beneath 5-1/2\* casing at approximately 13,730 feet to total depth approximately 13,900 feet. Cimarex Energy Company plans to dispose of a maximum of 10,000 BWPD at a maximum pressure of 2,748 psi, or as allowed by depth. Parties with questions regarding this proposal are urged to contact Cimarex at the 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 June 16, 2011.

Sec. 16, T17S-R32E Lea County, NM

#### Item XIII:

#### **Certified Mail Receipts**



#### Jones, William V., EMNRD

From:

mymerch@penrocoil.com

Sent:

Wednesday, July 13, 2011 2:06 PM

To: Cc: Jones, William V., EMNRD Hayden Tresner; Kay Havenor

Subject:

CIMAREX JG SWD C-18, SE6, 17 R 32 E, LEA COUNTY, NM

Importance:

High



Mr. Jones: Penroc Oil and Cimarex have reached an agreement which leads to Penroc withdrawing its opposition to the SWD in the 40-acre tract in the captioned.

As always, thanks for your promptness in all matters and now we can go back to finding and producing oil and gas...and hopefully, make \$\$\$!

M.Y. (MERCH) MERCHANT PRESIDENT

"We are what we repeatedly do. EXCELLENCE, then, is not an act, but a habit." Aristotle

#### www.penrocoil.com

(575)492-1236 PH. (575)492-1237 FAX P.O. BOX 2769, HOBBS, NEW MEXICO 88241-2769 USA 1515 CALLE SUR, HOBBS, NEW MEXICO 88240 USA INT'L CONTACTS ON REQUEST

Injection Permit Checklist (11/15/2010)
WFX PMX SWD 294 Permit Date 7 16/55 UIC Qtr
#Wells L Well Name(s): TG SWD #1
API Num: 30-95-UA Spud Date: New/Old: W (UIC primacy March 7, 1982)
Footages 1800 FUL/1400 FWL Unit F Sec 16 Tsp 17 Sage 32 E County LEA
General Location: 1,5 mi Sw of MALTANAR
Operator Citrary Every Co of Colon Contact KAY HAVENOR
OGRID: 62683 RULE 5.9 Compliance (Wells) 7 129 (Finan Assur) 5 IS 5.9 OK?
Well File Reviewed Current Status: NoT DRILED
Planned Work to Well: Postor/ Prol
Diagrams: Before Conversion After Conversion Elogs in Imaging File:
Sizes Setting Stage Cement Determination  Well Details: HolePipe Depths Tool Sx or Cf Method
New Existing Surface 17/2 13/8 800 - 600 SX Sunf
New_Existing_Interm 12/4 958 4600 - 1450SK Surf
New_Existing_LongSt 8314 5 12 45 77 2300SX 5wf
New Existing Liner
New_Existing _ OpenHole
Depths/Formations: Depths, Ft. Formation Tops?
Formation(s) Above 13736 SILVING DEV
Injection TOP: 13.730 DEV Max. PSI 2746 OpenHole Perfs
Injection BOTTOM: 3900 Dev Tubing Size 1278 Packer Depth 3700
Formation(s) Below
Capitan Reef? (Retach? Noticed? Noticed? Salado Top/Bot Core To Vigner House?
Fresh Water: Depths:Formation PAYPIEN Wells? Nove Analysis?Affirmative Statement
Disposal Fluid Analysis? Sources: Con PATRE Product waters
Disposal Interval: Analysis? Production Potential/Testing: Walaust Upstylv stree
Notice: Newspaper Date of 6 1 Surface Owner / SLO / Mingral Owner(s)
RULE 26.7(A) Affected Persons: Sondrudge Penroc Co Conoco PATING (6/16)
AOR: Maps? Well List? Producing in Interval? N Wellbore Diagrams?
Active Wells O Repairs? WhichWells?
P&A Wells O Repairs? Which Wells?
(O ju
Issues: Request Sent Reply: