	PT(-10)
DATE IN 3-2-10 SUSPENS	E ENGINEER LOGGED IN 3-2-10 TYPE SWD APP NO. 100 615 2179
	ABOVE THIS LINE FOR DIVISION USE ONLY
I	NEW MEXICO OIL CONSERVATION DIVISION
	- Engineering Bureau - (229/37) 1220 South St. Francis Drive, Santa Fe, NM 87505 MAR - Empire State Sive
	ADMINISTRATIVE APPLICATION CHECKLIST
Application Acronyms [NSL-Non-Star [DHC-Dowr [PC-Po	ndard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] hhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] ol Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] ified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1] TYPE OF AP [A]	PLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD
Check [B]	One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM
[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery ☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR
[D]	Others See 16

	Check	One Only for [B] or [C]
	[B]	Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR
	[D]	Other: Specify
[2]	NOTIFICAT	ION REQUIRED TO: - Check Those Which Apply, or Does Not Apply
[-]	[A]	Working, Royalty or Overriding Royalty Interest Owners
	[B]	☐ Offset Operators, Leaseholders or Surface Owner
	[C]	Application is One Which Requires Published Legal Notice
	[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
	[E]	For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	Waivers are Attached

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

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

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

Mark A. Fairchild	Mark A. Fairchild	Senior Ops. Engineer	2/3/2010
Print or Type Name	Signature	Title	Date

<u>MFairchild@conchorescurces.com</u> 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.	Application qualifies for administrative approval? Yes No Storage Storage
II.	OPERATOR: COG Operating, LLC
	ADDRESS: 550 West Texas, Ste 100, Midland, TX 79701
	CONTACT PARTY: Mark A. Fairchild PHONE: 432-686-3021
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? Yes 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: Mark A. Fairchild TITLE: Senior Ops. Engineer
	SIGNATURE: Mark A Fairchild DATE: 2/3/2010
*	E-MAIL ADDRESS: MFairchild@conchoresources.com If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

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.

Date: 02/10/10 Company: COG Operating LLC

OGRID: 229137

Lease: Empire State SWD

Well: #2

Location: 1980' FNL and 1980' FWL, Sec 9, T17S; R29E

Co. Eddy

State: NM

Surface Casing, 13 3/8" at 450'

Intermediate Casing, 9 5/8" @ 2,500'

Cisco Reef Perforations 8300-8900' (600')

Production Casing, 7" @ 9,200'

Date: 2/10/2010 Company: COG Operating LLC

OGRID: 229137

Lease: Empire State SWD

Well: #2

Location: 1980' FNL and 1980' FWL, Sec 9, T17S; R29E

Co. Eddy State: NM

		Bit Casing				Mud				
Casing &	String	Hole	Size	From	To	Ftg	Туре	Weight	Vis	FL
Fluids:	Conductor	24"	20"	40	0	40			-	
	Surface	17 1/2"	13 3/8"	450	0	450	Fresh/Spud	8.6-9.2	28-34	NC
	Intermediate	12 1/4"	9 5/8"	2,500	0	2,500	Cut Brine	9.8-10.1	28-29	NC
	Long	8 3/4"	7"	9,200	0	9,200	Cut Brine	8.7-9.3	28-34	10-12 log
	Tubing:		3 1/2"			8,250	8rd, EUE, IPC			
	Packer:	Nickel Plate	d, Compress	ion set w/ nipple	es		1			

. TOC Lead Tail

Cement:

Conductor Surface

Surface Surface 250 sxs, 14.8 ppg, 1.35 cuft/sx
Intermediate Surface 550 sxs, 13.5 ppg, 1.75 cuft/sx
Long Surface 1st Stage, DV tool at 7,200

300 sxs, 50/50 poz 14.2 ppg, 1.32 cuft/sx

2nd Stage

650 sxs, lite, 12.4 ppg, 2.14 cuft/sx

100 sxs, CI C, 15.6 ppg, 1.19 cuft/sx

250 sxs, 14.8 ppg, 1.35 cuft/sx

200 sxs, 14.8 ppg, 1.35 cuft/sx

Objective:

Formation: Cisco Reef

TD: 9,200

Perforations: 8300-8900' (600') Injection Rate: 15-20K BWPD

Tops:

Rustler: 400'

Yates: 800' Seven Rivers: 1200' Queen: 1750' Grayburg: 2150' San Andres: 2500'

Glorietta: 3900' Tubb: 5,325 Wolfcamp: 7150'

WC Reef Disposal: 7400-7600' (200')

Cisco: 8150'

Cisco Reef Disposal: 8300-8900' (600')

Date: 02/10/10

Company: COG Operating LLC

OGRID: 229137

Lease: Empire State SWD

Well: #2

Location: 1980' FNL and 1980' FWL, Sec 9, T17S; R29E

Co. Eddy State: NM

19. Proposed Casing and Cement Program

Type	Hole Sz	Csg Sz	Csg Wt	Set Depth	Sacks	TOC
Conductor	24"	20"		40		Surface
Surface	17 1/2"	13 3/8"	48	450	500	Surface
Intermediate	12 1/4"	9 5/8"	36	2500	750	Surface
Long	8 3/4"	7"	26	9200	1050	Surface

Additional Comments

COG proposes to drill a 24" hole and set 20" conductor casing, cemented to surface with fresh mud. A 17 1/2" hole will be drilled to approximately 450' to set 13 3/8" casing and cement to surface. The Surface hole will be drilled with fresh water spud mud. The interrmediate 12 1/4" hole will be drilled w/ cut brine to approximately 2,500' where 9 5/8" casing will be set and cemented to surface. Cut brine will be used to drill the long string hole to approximately 9,200' where 7" casing will be set and cemented to surface with a DV tool at approximately 7,000'.

INJECTION WELL DATA SHEET

OPERATOR: COG Operating, LLC

WELL NAME & NUMBER: Empire State SWD #2

WEIT LOCATION:	1 980' FNT. and 1 980' FWT.	[1	;	T178	R29E
WEEL FOCATION:	FOOTAGE LOCATION	NIT LETTER	SECTION	TOWNSHIP	RANGE
WELL	WELLBORE SCHEMATIC		WELL CONSTR Surface Casing	WELL CONSTRUCTION DATA Surface Casing	
7	13 3/8" Casing @ + /- 450	Hole Size: 17 1/2" Cemented with:	SX.	Casing Size: 13 3	3/8" H³
	95/8" Casing @ +/- 2,500'	Top of Cement: Surface	Metho Intermediate Casing	Method Determined:Circulated	Circulated
	Cisco Reef Perforated	Hole Size: 12 1/4" Cemented with: Surface	Casin Sx. or 1 Metho	Casing Size: 9 5/8" or 1,402 Method Determined: Circulated	fi ³ Circulated
	7° Casing@ +/-9,200°	Hole Size: 8 3/4"		Casing Size: 7"	6

Injection Interval

Circulated

Method Determined:

Top of Cement: Surface

Total Depth: 9,200

or 927

SX.

Cemented with:

8,300 feet to 8,900

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Ţ	Tubing Size: 3 1/2", 8rd, EUE Lining Material: Internal Plastic coating
Ė.	Type of Packer: Compression set
Ъ́	Packer Setting Depth: 50 to 100' above top perf
0	Other Type of Tubing/Casing Seal (if applicable): None
	<u>Additional Data</u>
—	Is this a new well drilled for injection?
	If no, for what purpose was the well originally drilled?
7.	Name of the Injection Formation: Cisco
3.	Name of Field or Pool (if applicable): None
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. $^{\rm NO}$
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
	Queen at 1,750'; Grayburg @ 2,150; San Andres @ 2,500



ATTACHMENT TO APPLICATION C-108

COG Operating Inc. Empire State SWD #2 Se. 9, T-17-S, R-29-E Eddy County, NM

- III. WELL DATA See attached on reverse side of form as requested.
- V. MAP ATTACHED
- VI. LIST OF WELLS AND DATA ATTACHED.
- VII. PROPOSED OPERATIONS
 - 1. The injection volume will average 10,000-15,000 BWPD while the maximum injection volumes are expected to be 20,000 BWPD.
 - 2. This will be a closed loop system.
 - 3. Proposed average and maximum injection pressure: Vacuum
 - 4. Analysis attached, only produced water.
 - 5. This well is not yet drilled. COG will swab the formation and recover fluid samples for analysis and reporting to NMOCD. Research disposal zone formation water and attach and chemical analysis.
- VIII. SEE ATTACHED
- IX. SEE ATTACHED
- X. Logging and test data will be run on the well when drilled.
- XI. No fresh water found or recorded by state engineer or OCD.

- XII. The disposal formation will have several thousand feet of overburden on top of it.

 In these several thousands of feet of impermeable shale and evaporate zones of various thickness exits. These zones will stop any hydraulic communication between geologic strata.
- XIII. Notice (this application) has been sent to the surface owner (NMSLO), operators of all wells, and lessees, working interest, or lease operating right holders, and lessors within a half mile.

COG SENM SWD Well Questionnaires

Date: 2/10/2010

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

What will be the well name? Empire State SWD #2

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

Logs will be run as follows: porosity and resistivity

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

The well will be drilled 100% with rotary tools.

How will you test the mechanical integrity of the casing?

A State of NM supervised MIT test to 500 psig will be run on the tubing/casing annulus.

What size tubing do you plan to use?

The tubing will be 3 1/2" Nominal OD.

How will tubing be internally lined?

The tubing will be internally plastic coated.

What type packer will be used?

A nickel plated compression set packer will be utilized.

Where will packer be set?
Within 50 to 100' above top perf.

Will there be any other type of casing/tubing seal? No.

What is the fracture gradient?

Approx 0.75

Will the well be stimulated?
Yes

If yes, how will the well be stimulated?

Large conventional acid job.

Into what perforated intervals will you inject? Cisco Reef, 8,300 to 8,900'

What will be the average daily volume injected? 10-15,000 BWPD

What will be the maximum daily volume injected? 20, 000 BWPD

What will be the average injection pressure? Vacuum

What will be the maximum injection pressure?

1720 psig

Will water be trucked or piped to the well?

Piped

What wells will dispose into it?

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

Any non-COG wells?

No outside operated water will be disposed of.

What surface facilities (e.g.; tanks, pumps, filters) will be installed?

- 4 750 Bbl water storage tanks, 1 1,000 Bbl Gun Barrel
- 2 500 Bbl steel tanks, 1 400 BHP H pump

Do you have an analysis of the produced water you plan to inject?

Yes

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

No, these well are on a vacuum and do not produce.

How will the geology prevent migration into fresh water zones (e.g., thickness of shale or salt layers)? Various impervious geological barriers exist between the Cisco and the surface.

Will the system be open or closed?
Closed

<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
<u>District II</u>
1301 W. Grand Avenue, Artesia, NM 88210
<u>District III</u>
1000 Rio Brazos Rd., Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87505

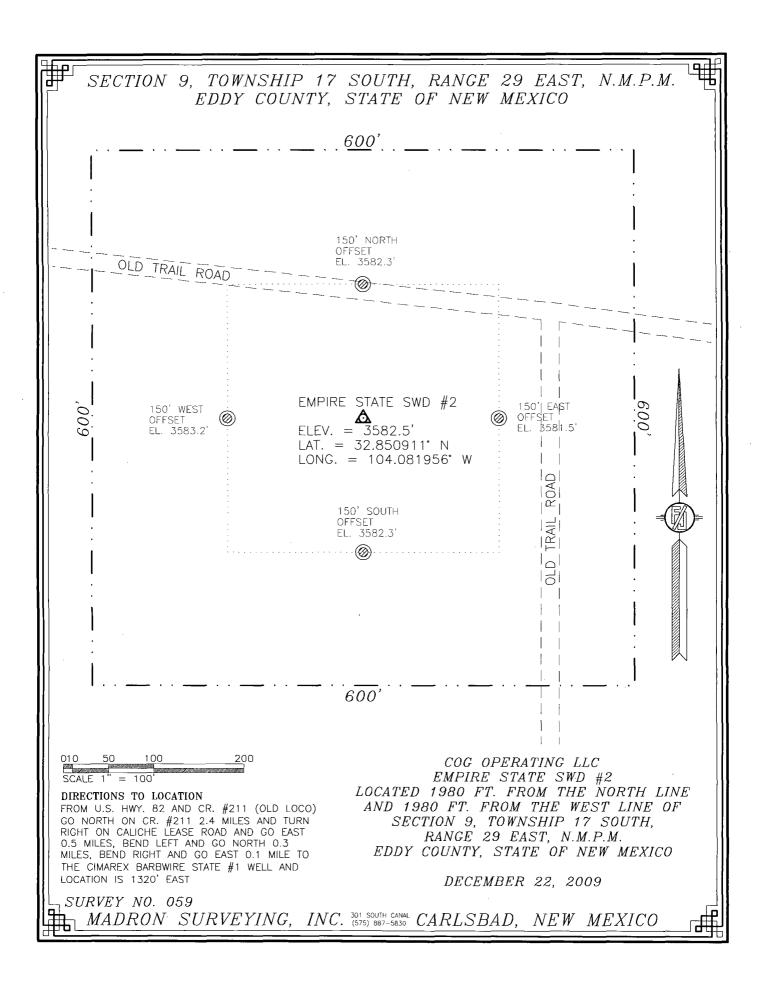
District IY

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

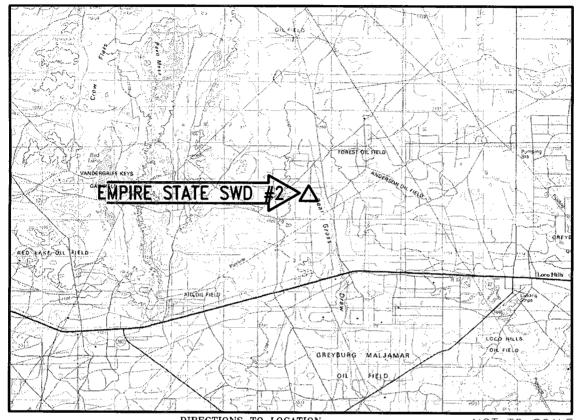
☐ AMENDED REPORT

			VELL LO			EAGE DEDIC				
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⁴ Property	Code		L	****		roperty Name E STATE SWD				
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OGRID		_ 1								* Elevation
22913	57	<u> </u>				ERATING, LLC 3582.5' rface Location				
_					Surface		·			
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			11 Be	ottom H	ole Location L	f Different Fro	m Surface	L		.L
L er lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County
Dedicated Acre	s 13 Joint	or Infill 14	Consolidation	Code 15	Order No.	<u> </u>	L	<u> </u> _		<u> </u>
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16	=====		Ţ.							RTIFICATION ined herein is true and comp
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SECTION 9, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

VICINITY MAP



NOT TO SCALE

DIRECTIONS TO LOCATION
FROM U.S. HWY. 82 AND CR. #211 (OLD LOCO)
GO NORTH ON CR. #211 2.4 MILES AND TURN
RIGHT ON CALICHE LEASE ROAD AND GO EAST
0.5 MILES, BEND LEFT AND GO NORTH 0.3
MILES, BEND RIGHT AND GO EAST 0.1 MILE TO
THE CIMAREX BARBWIRE STATE #1 WELL AND
LOCATION IS 1320' EAST

SEC9	TWP17	<u>-s_</u>	RGE	29-E
SURVEY	N.M.P.M.			
COUNTY	EDDY	STA	TE_NEW	MEXICO
DESCRIPTION	ON 1980'	FNL	<u>& 1980'</u>	FWL
ELEVATION		358	32.5	
OPERATOR .	COG OPER	RATING	LLC	
LEASE	EMPIRE			

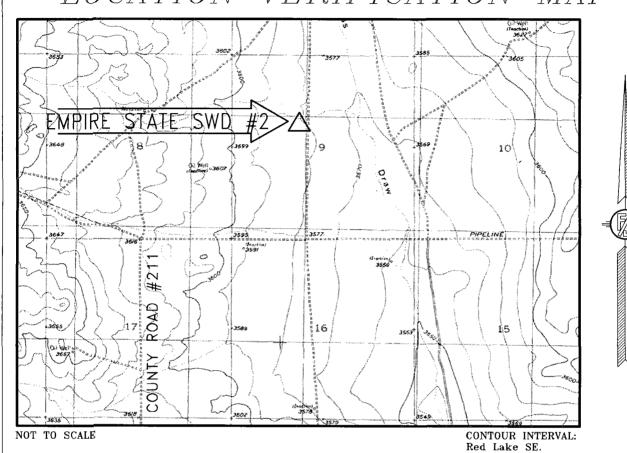
COG OPERATING LLC
EMPIRE STATE SWD #2
LOCATED 1980 FT. FROM THE NORTH LINE
AND 1980 FT. FROM THE WEST LINE OF
SECTION 9, TOWNSHIP 17 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 22, 2009

SURVEY NO. 059

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SECTION 9, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP



DIRECTIONS TO LOCATION

FROM U.S. HWY. 82 AND CR. #211 (OLD LOCO) GO NORTH ON CR. #211 2.4 MILES AND TURN RIGHT ON CALICHE LEASE ROAD AND GO EAST 0.5 MILES, BEND LEFT AND GO NORTH 0.3 MILES, BEND RIGHT AND GO EAST 0.1 MILE TO THE CIMAREX BARBWIRE STATE #1 WELL AND LOCATION IS 1320' EAST

SEC. 9 TWP. 17-S RGE. 29-E
SURVEY N.M.P.M.
COUNTY EDDY STATE NEW MEXICO
DESCRIPTION 1980' FNL & 1980' FWL
ELEVATION 3582.5
OPERATOR COG OPERATING LLC
LEASE EMPIRE

COG OPERATING LLC
EMPIRE STATE SWD #2
LOCATED 1980 FT. FROM THE NORTH LINE
AND 1980 FT. FROM THE WEST LINE OF
SECTION 9, TOWNSHIP 17 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 22, 2009

SURVEY NO. 059 MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

[cg/3400]	Manual Control	Agente Ules Ed*	1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 1	Connect red to n	E. HIGH LONE: PENROSE SAN VINTAGE DRI
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Disposal Well

API#	PROPERTY NAME	#	OPERATOR	TD	TYPE	STATE	co	LAND	U/L	SEC	TWN	RNG	N/S	E/W
	Empire State SWD	2	COG OPERATING LLC	9,200'	SWD	NM	EDDY	State		9	175	29E	1,980'N	1980'W

Wells within 1/2 mile which penatrate proposed disposal interval

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-	30-015-36394	Flameskimmer	2	Cimarex Energy Co. of Colorado	9,900'	Gas	NM	Eddy	State	Κ	9	175	29E	2,150'S	1,800'W]
-	30-015-30690	Conoco 9 State Com	1	EOG Resources Inc.	11,000'	Gas	NM	Eddy	State	G	9	175	29E	1,980'N	1,350'E	
	30-015-35219	Oxy Flameskimmer State	1	Oxy USA WTP Limited Ptnshp	10,850'	Gas	NM	Eddy	State	K	9	175	29E	1,650'S	1,880'W]-
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3001536134	BARBWIRE 9 STATE COM 001	CIMAREX ENERGY CO. OF COLORADO	N 0861	660 W E	9 17S 29E	1,320	٧	Active Herre (UC BAILDUT
3001535219	OXY FLAMESKIMMER STATE 001	OXY USA WTP LIMITED PARTNERSHIP	S 0591	N N N N N N N N N N N N N N N N N N N	9 I7S 29E	1,653	Α	Unknown
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COG Operating LLC Empire State SWD #2

Jones, William V., EMNRD

From:

Mark Fairchild [MFairchild@conchoresources.com]

Sent: To: Friday, April 09, 2010 8:52 AM Jones, William V., EMNRD

Cc:

Keith Corbett; Robert Ready; Ramon Reyes; Sammie Hodges

Subject:

COG Empire State SWD #2

Attachments:

OXY Flameskinner State #1WBD.xls; DL_CONOCO 9 ST 1 TYPE LOG.jpg; Barbwire 9 State

WBS.xls; Conoco 9 State Com WBS.xls

William, in response to your questions of 3/15/2010 items 'o.' and 'p.' COG respectfully submits the following for your review.

A. Per 'o.' all of the Wellbore diagrams of the P&A'd wells in the AOR.

- B. Per 'p.' a detailed, annotated log with tops and cement plugs of the Conoco 9 State Com #1 well. COG contends that the cement plug in the Cisco does isolate the porous reef injection interval in this wellbore and that the well is adequately plugged.
- C. Please note, our NMOCD research of 30-015-36394 shows a permit but no drilled well documentation.

Please let me know what you decide.

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



CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DETERN, PLUGBACK, OR ADD A ZONE 1 Common Mayer and Address 1. GGMED Hamber CIMAREX ENERGY CO. OF COLORADO 163623 3213 N O'COMPOR BLYD. 3 AM Bineser TRVING , TX 75039 304015-36394 S 发展 (14) 5. Property Name a Property Code PLAMESKEMINER 002 31128 T. Sandrove Longing. E/W Lise Lot Mai Feet Prints Section. Township WE LIVE Fiet Flora Creedy W. Lot Desge ŋ LES 29E. 14. 2150 15/01 w ELLOY I, 8. Pool Information 570X WC STRAWN (O) Additional Well Information I.O. WAG Type III Caloffigury id Lease Type 13. Ground Level Chronico P. West Type New Well 043 3356 Inde Di. Lizoninia id Proposed Perch 16 Percuation Lr. Communi la sons den \$900 THE STATE OF м Stewar Diskupo historomani delli water well Depth to flavored water Distance to negati states water tak better bishot Die Liver Lyrahelli mil. Unid Chyl Pu. Votarie From West Military | Descriptions | George Closed Loop System 19. Proposed Casing and Cement Program. Hote Star Clearing Weightiff Scriby Depth. Scolar of Cement Extracted TOC Type Cultur Type Sud 123 13375 檔 1.0 340 ð 1225 9 623 40 3000 1 Inti **3 75** 55 17 9000 143% וגיגג Poul Caring/Coment Programs Additional Comments Complete and come consuling and BOP details will be amaked to Kindesty Wilson. Proposed Blowout Prevention Program Worling Emercia Test Freezens Type ใช้โลกประเทย Double Ram 5000 2000 Camous Tharday curify that the infimension given those is the and complete to the burn OIL CONSERVATION DIVISION commy knowledge and below difference overly that the deliver planets, by constructed according to estimatic finition is a grant partie of a activity alternation 04 Ուդբլանայի լվար Approved By: Ten Cura Frinted blame; discremically filed by Leno Ferris Tille: District Supervisor

Approved Date: 6/26/2008

Conditions of Approval Attached

Expression Date: 603612010

Title Managa Operations Administration

Date: 6:250000

Burd Address afenic Prospoundanter com

Phone 912-441-6439

WHORE YOF DRILLED

Submit To Appropriate District Office State Lease - 6 copies	State of:	New Mexico				Form C-105
Fee Lease - 5 copies	Energy, Minerals	and Natural Res	sources			Revised June 10, 2003
District I	, <i>3</i> ,,			WELL AP	I NO.	
1625 N. French Dr., Hobbs, NM 88240 District II	Oil Congor	rection Divisio		30-015-36	134	
1301 W Grand Avenue, Artesia, NM 88210		vation Divisio			Type of Lease	
District III 1000 Rio Brazos Rd., Aztec, NM 87410		n St. Francis 🛭				E 🗆
District IV	Santa Fe	e, NM 87505 🕆			Gas Lease No.	
1220 S. St. Francis Dr., Santa Fe, NM 87505				James 3.7 Cc	000 2000 1101	
WELL COMPLETION OF	DECOMPLETION !	COMPLETION DEPORT AND LOG				
WELL COMPLETION OR	RECOMPLETION	REPORT AND	LUG	A. 2. T. Thun Blen Harrie Conf. (C.). Hillian	e or Unit Agreement	No-co
Ia. Type of Well: OIL WELL ☑ GAS WELL [DRY DOTHER			7. Lease Nam	e or Unit Agreement	Name
_	_ DK!					. [
b. Type of Completion:						
NEW ⊠ WORK □ DEEPEN WELL OVER	BACK RESVR. [OTHER		Barbwire 9	9 State	
2. Name of Operator	2,,,,,,,	AUG 1	2 2008	8. Well No.		
Cimarex Energy Co. of Colorado	(162683)			001		
3. Address of Operator		OCTA	RTESIA	9. Pool name	or Wildcat	
PO Box 140907; Irving, TX 75014	1-0907	C C C C C C C C C C C C C C C C C C C		Anderson	Wolfcamp, Wi	ldcat
4 Well Location				1	, , , , , , , , , , , , , , , , , , , ,	
SHL: Unit Letter E . 1980	Feet From The North	Line and 66	O Feet Fro	m The Wes	t Line	
BHL: Unit Letter	Feet From The	Line and		m The		
Section 9 Township	17\$Ra	ange29E	NMPM_		_ County	<u>Eddy</u>
10. Date Spudded 11. Date T.D. Reached	12. Date Compl. (Ready	to Prod.) 13.		& RKB, RT, GF	R, etc) 14. Ele	v. Casinghead
3-17-08 4-13-08	5-15-08			1590' GR		
15. Total Depth 16. Plug Back T.		ompl. How Many	18. Intervals	Rotary Tools	Cabl	e Tools
10,830' 10779'	Zones?		Drilled By			i
			<u> </u>		tary	
19. Producing Interval(s), of this completion	- Top, Bottom, Name			20. Was Directional Survey Made		
Anderson; Wolfcamp'				1 22 11/2 11/2	11.0 -1	NO
21. Type Electric and Other Logs Run				22. Was We	II Cored	
PEX, HRLA, BHC, Sonic, HNGS,CBL	CACINICIDI	ECORD (D	. 11	No	111\	
23.		ECORD (Repo				
CASING SIZE WEIGHT LI			ESIZE		TING RECORD	AMOUNT PULLED
13¾" 48	186'			400 sx, circ 4		
9 1/4 40	3017′			1150 sx, circ		
5½" 17	10830′	8		1640sx, TOC		
24.	LINER RECORD	·			TUBING RECORI	
SIZE TOP E	SOTTOM SACKS CEN	MENT SCREEN	S	IZE	DEPTH SET	PACKER SET
				21/8"	7901′	Tac @ 7602'
26. Perforation record (interval, size, and nu		T, FRACTURE, C				
10086'-10102' .43 72 holes covered	J L/y	AMOUNT AND K				
CIBP set @ 10000' w/15' cement o		1500 gal 15% f				
7822'- 7836' .43 96 holes	10000′	CIBP with 15' C				
	7822'-7836'	1500 gal 15% N	IEFE HCL aci	d		
28.		PRODUCT				
	uction Method (Flowing, gas l			We	Il Status (Prod. or Sh	ut-in)
	nping – 2 ½" x 1 ½" x 20'	Sub surface Pum			ducing	
1 -		d'n For Oil - Bbl	1	as - MCF	Water - Bbl.	Gas - Oil Ratio
	5/ 5 1	t Period 20		0	14	500
	alculated 24 Hour Rate Oil -	- Bbl. Gas -	- MCF	Water - Bbl.		- API - (Corr)
120 50		·		L	39.36	
29. Disposition of Gas (Sold, used for fuel, 1					Test Witnessed By	
*First Gas production – 5-18-08 so	10	<u> </u>				
30. List Attachments						
Deviation Report						
31 .I hereby certify that the information	shown on both sides of thi	s form is true and c	omplete to th	e best of my kn	owledge and belie	f.
Signature South Harm	Printed					
1 _ A.E. El	Printed					

E-mail Address shaynes@cimarex.com

District 1'. 1625 N. French Dr , Hobbs, NM 88240 District II

1301 W. Grand Avenuc, Artesia, NM 88210

District III 1000 Rio Brazos Road, Aztec, NM 87410

State of New Mexico Energy Minerals and Natural Resources

FEB - 4 2009

Form C-101 May 27, 2004

Oil Conservation Division 1220 South St. Francis Dr.



Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE Operator Name and Address Cimarex Energy Co. of Colorado 162683 3API Number of 162683 3API Number of 162683 3API Number of 162683 3API Number of 162683 3API Number of 162683 3API Number of 162683 3Property Code 3Property Name Barbwire 9 State Com On 162683 3Property Name Operator Name and Address 3Property Name Operator Name and Address 3API Number of 162683 3API Number of 162683 3API Number of 162683 APP Number of 162683 3Property Name Operator Name and Address Appl Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Number of 162683 APP Nu
Cimarex Energy Co. of Colorado 5215 N. O'Connor Blvd., Ste 1500 Irving, TX 75039 30-015-36134 Property Code 3 Property Name 3 Property Name 9 State Com 9 Proposed Pool 1 Anderson; Wolfcamp Surface Location
5215 N. O'Connor Blvd., Ste 1500 Irving, TX 75039 30-015-36134 Property Name Barbwire 9 State Com Proposed Pool 1 Anderson; Wolfcamp Surface Location
Irving, TX 75039 30-015-36134 Property Code 3 Property Name Barbwire 9 State Com Proposed Pool 1 Anderson; Wolfcamp Surface Location
Property Code 3 Property Name Barbwire 9 State Com 9 Proposed Pool 1 Anderson; Wolfcamp Surface Location
9 Proposed Pool 1 Anderson; Wolfcamp 7 Surface Location
Anderson; Wolfcamp 7 Surface Location
[√] Surface Location
UL or lot no Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County E 9 17S 29E 1980 North 660 West Eddy
⁸ Proposed Bottom Hole Location If Different From Surface
UL or lot no Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County
H 9 17S 29E 1980 North 660 East Eddy
Additional Well Information 11 Work Type Code 12 Well Type Code 13 Cable/Rotary 14 Lease Type Code 15 Ground Level Elevation
A O R S 3590' GL
16 Multiple 17 Proposed Depth 18 Formation 19 Contractor 20 Spud Date N 11762' (lateral MD) Wolfcamp N/A When Approved
Depth to Groundwater Distance from nearest fresh water well Distance from nearest surface water
Pit. Liner: Syntheticmils thick Clay Pit Volume:bblsDrilling Method:
Closed-Loop System Flowback Tanks Fresh Water Brine Diesel/Oil-based Gas/Air
²¹ Proposed Casing and Cement Program
Hole Size Casing Size Casing weight/foot Setting Depth Sacks of Cement Estimated TOC
17½" 13¾" 48# 186' 400 Surface
12½" 95/8" 40# 3017' 1150 Surface
8¾" 5½" 17# 10830' 1640 2420' 6½" 3½" 9.3# 11762' No cmt. PEAK
61/8" 31/2" 9.3# 11762' No cmt, PEAK 22 Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone.
Describe the blowout prevention program, if any. Use additional sheets if necessary 10086 - 10102
Well currently producing from Wolfcamp 7822-36.' Atoka perfs 1008-102' with CIBP @ 10000' w/ 15' cmt. Cimarex proposes to solve the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work o
following operations to recomplete horizontally in the Wolfcamp: • Kill well. NU 5K BOP. Squeeze Wolfcamp perfs @ 7822-36.' Set CIBP @ 7672' w/ 2 sx sand.
• Mill window from 7650' to 7665.' Kick off 6%" hole at 7660.' Land curve @ 7957' MD and drill to TD of 11762' MD a 7917' TVD.
• Run 3½" 9.3# P-110 EUE 8rd liner from RSB packer at 7560' to TD of 11762' MD. Liner will be PEAK completion assem
with no cement.
• Fracture treat in several stages as needed through iso-ports (separated by iso-packers). Please see attached preliminary directional survey and C-102.
²³ I hereby certify that the information given above is true and complete to the OIL CONSERVATION DIVISION
best of my knowledge and belief. I further certify that the drilling pit will be
constructed according to NMOCD guidelines , a general permit, or an (attached) alternative OCD-approved plan.
Vatalie meger Title:
Printed name: Natalie Krueger District Godowst
Title Regulatory Analyst Approval Date: 2/10/09 Expiration Date: 2/10/20
Table to Belong to A Date Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Table 1 Tabl
E-mail Address: nkrueger@cimarex.com

Cimarex Energy Co. of Colorado

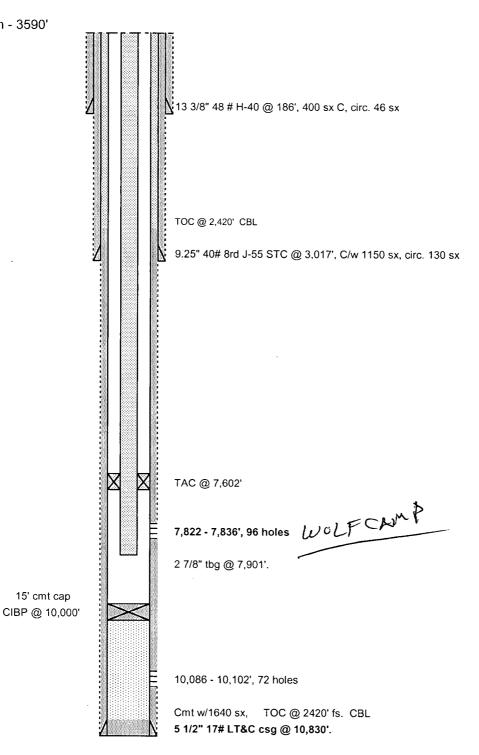
<u>Lease & Well #</u> 30 015 36134

Barbwire 9 State #1

SPUD - 3/17/2008

Eddy Co., NM Sec 9 T17S R29E 1980 FNL & 660 FWL

Elevation - 3590'



Cimarex Energy Co. of Colorado

SERVICE RIG

DRLG F/ 10200 TO 10232, 32', AVG ROP = 6 FPH, WOB = 55, RPM = 60

SV @ 10183' = .25 DEG

DRLG F/ 10232 TO 10364, 132', AVG ROP = 8 FPH, WOB = 55, RPM = 60

Date: 03/14/2007

DRLG F/ 10364 TO 10389, 25', AVG ROP = 10 FPH, WOB = 55, RPM = 60

SERVICE RIG & PUMPS

DRLG F/ 10389 TO 10585, 196', AVG ROP = 9 FPH, WOB = 55, RPM = 60

Date: 03/15/2007

DRLG F/ 10585 TO 10605, 20', AVG ROP = 7 FPH, WOB = 55, RPM = 60

SERVICE RIG

DRLG F/ 10605 TO 10729, 124', AVG ROP = 7 FPH, WOB = 55, RPM = 60

SV @ 10675 = .25 DEG

DRLG F/ 10729 TO 10737, 8', AVG ROP = 5 FPH, WOB = 55, RPM = 60

DRLG 1/ 10737' - 10760' (23'), AVG ROP = 4.6 FPH, WT = 55, RPM = 60

SERVICE RIG

DRLG f/ 10760' - 10850' (90'), TD 8 3/4" HOLE @ 03:30 HRS, 3-16-2007 @ 10850', AVG ROP = 5.5 FPH, WT = 55, RPM = 60

CIRC BOTTOMS UP

DROP TOTCO

TOH FOR LOGS

Date: 03/17/2007

FNSH TOH

L/D DRI G BHA & BIT

PRE-JOB SAFETY MEETING W/ BAKER ATLAS & MCVAY RIG PERSONNEL

R/U BAKER ATLAS WIRELINE TRUCK, P/U LOGGING TOOLS, RIH w/ TRIPLE COMBO TOOL, RAN LOGS, POH, L/D TRIPLE COMBO TOOL, P/U STAR LOGGING TOOL, RIH, LOGGING OPEN HOLE WITH STAR LOGGING TOOL

Date: 03/18/2007

TIH W/ BIT

WASH TO BOTTOM

HELD A PRE-JOD SAFETY MEETING AND TOH LDDP AND DCS

MIRU BULL ROGERS CSG CREW AND HELD A PRE-JOB SAFETY MEETING. TIH W/ FS, 1 JT, FC, AND 5.5" 17# HCP-110 LTC CASING AT REPORT TIME

Date: 03/19/2007

COMPLETED RUNNING CSG TO 10850 W/ 262 JTS OF 5.5" 17# HCP-110 LTC & SET @ 10850'

CIRC WHILE WAITING ON HALLIBURTON'S CEMENT

HALLIBURTON CEMENTED CSG W/ 840 SK OF INTERFILL "H" FB 870 SK OF SUPER "H". CIRC 26 SK JO PIT

ND BOPE AND SET SLIPS

JET & CLEAN PITS, NU WELL HEAD & RELEASED RIG AT 6:00 PM, 03/18/2007

SHUT DOWN FOR NIGHT. PREP TO COMPLETE RD THIS AM

30 015-35219 0X1 Florestein State #1

OXY FLAMESKIMMER STATE #1

04/18/2007 CMIC:-Barton MIRU.

04/19/2007 CMIC Barton

Move in rig up. Nipple up 5K hyd BOP. Unload and rack 363 jts new 2 3/8" L80 tbg. (11,465.69'). Pick up and run 4 3/4" bit, 5 1/2" csg scraper, on 342 jts tbg. Tag @ 10,813'. Test casing to 1500# - OK. Displace with 240 bbls 6% kcl claystay pkr fluid. Pull bit up hole to 10,787'. SION. Prep to POOH - Run CBL - CCL.

04/20/2007 CMIC: Barton

Hold safety meeting. Trip out with 341 jts 2 3/8" tbg. Load csg with 18 bbls pkr fluid. Rig Halliburton wireline up. Run CBI_from 10,804' to 7,800'. Run repeat log under 1000# psi. Rig wireline down. SION Cement good from 8450' down. Fair to poor cement from 8450' - 4500'. No cement above 4500'.

04/21/2007 CMIC: Barton

hold safety meeting, assemble tcp guns, pkr., on/off tool & rih on 2 3/8" tbg., miru baker atlas wl, rih w/gamma ray tool & correlate to open hole log, pooh, rd wl, space out guns to perf. 10,566'-84', set pkr. @ 10,492', test csg. & pkr. to 500#(OK) nd bop, nu tree, si, rig down p/u & r/u, sd for weekend.

1-2 3/8" L-80 pup jt.	-	4.06
1-2 3/8" x 1.815"F" nipple	_	.98
1-2 3/8" L-80 pup jt.	-	6.21
1-2.38" x 5.5" baker hornet pkr.	-	9.14
1-2 3/8" x 1.875" L-10 on/off tool	-	1.65
2-jts. 2 3/8" L-80 tbg.	-	63.27
1-2 3/8" L-80 pup jt.	-	6.15
328-jts. 2 3/8" L-80 tbg.	-	10358.21
3-2 3/8" L-80 pup jts.(12',10'6')	-	28.11
1-jt. 2 3/8" L-80 tbg.	-	31.64
TOTAL	-	10509.42
KB	-	3.09
BOTTOM OF TBG.	-	10512.51
PKR. @ 10492.12 1.87 @ 10490.47	1.81@10	507.47

05/01/2007 CMIC: Barton

Drop bar. Tubing pressure went to 3000#. Open up and flow on various choke settings for 2 hours. Recover 25 bbls. of water. (100% load recovery) Flow well on 24/64 choke, 2750# FTP, 975 MCF/day rate for one hour. Recover 12 bbls. (37 bbls total) Open choke to 42/64. Flow rate 1.95 @ 1950# FTP. Recover 11 bbls in first hour. (48 bbls total). Flow well @ 1.95 rate for a total of 2.5 hours. Flowing tubing pressure 1800#. Well made 13 bbls of water the last hour for a total of 61 bbls. Load to recover was 23 bbls.

05/02/2007 CMIC: Barton

Wait on Pro Wireline. Rig up Pro Wireline and RIH. Release TCP assembly and follow them down hole. Tag top of assembly @ 10,763'. POOH RIH W/single pressure gauge to 10,575' and acquire bottom hole pressure. Open well to sales.

OXY USA

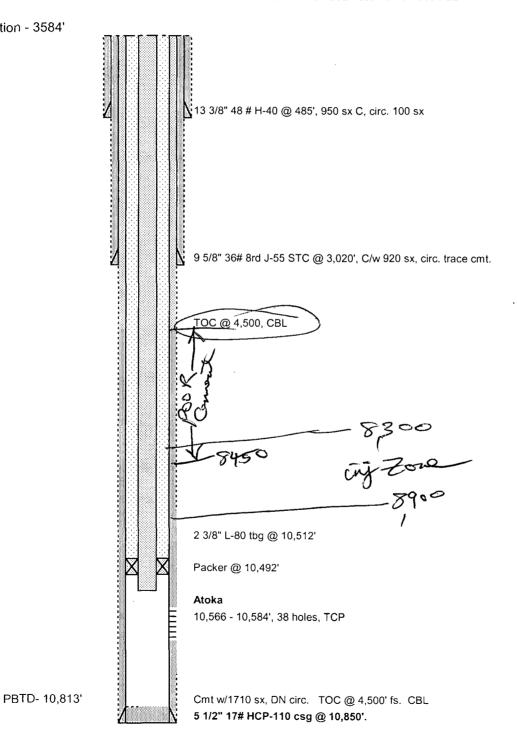
Lease & Well # 30 015 35219

OXY Flameskimmer State #1

SPUD - 2/13/2007

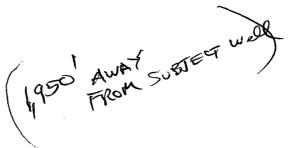
Eddy Co., NM Sec 9 T17S R29E 1650 FSL & 1880 FEL

Elevation - 3584'



OXY USA

ENRON OIL & GAS COMPANY CONOCO "9" STATE COM NO. 1 API 30-015-30690 PAGE 2 OF C-103 10/11/99



8/7/99

Cement plug 10,488-10,388'. 100' plug, cement pumped – 40 sx Premium Class "H", 16.4#/gal, 1.06 cu ft/sk

Cement plug 8620-8520'. 100' plug, cement pumped – 45 sx Premium Class "H", 16.4#/gal, 1.06 cu ft/sk

Cement plug 7230-7138. 92' plug, cement pumped - 40 sx Premium Class "H", 16.4#/gal, 1.06 cu ft/sk

Cement plug 6014-5914'. 100' plug, cement pumped – 45 sx Premium Class "H", 16.4#/gal, 1.06 cu ft/sk.

Cement plug 3900-3800'. 100' plug, cement pumped – 40 sx Premium Class "H", 16.4#/gal, 1.06 cu ft/sk.

Cement plug 2700-2600'. 100' plug, cement pumped 30 sx Premium Plus "C", 15.6#/gal, 1.18 cu ft/sk.

Pulled 5 stds DP. Waited on cement two (2) hrs - tagged cement at 2,600' with 8000# wt.

Cement plug 489-389'. 100' plug, cement pumped 25 sx Premium Plus "C", 15.6#/gal, 1.18 cu ft/sk.

Cement plug 50' - surface. 50' plug, cement pumped 15 sx Premium Plus "C", 15.6#/gal, 1.18 cu ft/sk.

8/8/99

Nipple down BOP. Install dry hole marker.

CASPA RUN TO TO

Submit 3 Copies to Appropriate District Office

CONDITIONS OF APPROVAL, IF ANY:

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-103 Revised 1-1-89

DISTRICT I	OIL CONSERVATION	ON DIVISION	
P.O. Box 1980, Hobbs NM 88241-1980	2040 Pacheco		WELL API NO.
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, NA	M 87505	30-015-30690 5. Indicate Type of Lease STATE X FEE
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410			6. State Oil & Gas Lease No.
SUNDRY NOTI	CES AND REPORTS ON WEL	LS	
DIFFERENT RESER	POSALS TO DRILL OR TO DEEPEN (RVOIR. USE "APPLICATION FOR PER 101) FOR SUCH PROPOSALS.)		7. Lease Name or Unit Agreement Name Conoco "9" State Com
I. Type of Well: OIL GAS WELL VELL X	OTHER		33
2. Name of Operator			8. Well No.
Enron 011 & Gas Company 3. Address of Operator	<u>.</u>		9. Pool name or Wildcat
P.O. Box 2267 Midland, TX	79702	_	Sand Tank (Morrow)
4. Well Location			
Unit Letter G : 1980	Feet From The North	Line and13	Feet From The East Line
Section 9	Township 17\$ R		NMPM Eddy County
	10. Elevation (Show wheth		E.)
U. Check An	propriate Box to Indicate	Nature of Notice	Report or Other Data
-	ITENTION TO:	1	SEQUENT REPORT OF:
		300	
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	OPNS. \square PLUG AND ABANDONMENT $\overrightarrow{\mathbb{X}}$
PULL OR ALTER CASING		CASING TEST AND CE	EMENT JOB
OTHER:		OTHER	
Jillen.		TOTALEN.	
work) SEE RULE 1103.	nt 10:00 p.m. dual Induction/GR/COM Z Den nn well.	,	tes, including estimated date of starting any proposed I/Digital Acoustic log 5 16 17 18 19 20 20 20 20 20 20 20 20 20 20 20 20 20
I hereby certify that the information above is to SIGNATURE TYPE OR PRINT NAME Mike Francis	тп	ge and belief. TLE Agent	DATE 10/11/99 TELEPHONE NO. 915/686-3714
(This space for State Use) APPROVED BY	v W. Gum	District	Supervisor 10-20 95

Enron Oil Gas Company

Conoco 9 State Com. #1 P&A, 8/8/1999 Lease & Well # 30 015 30690 Eddy Co., NM SPUD - 7/13/99 Sec 9 T17S R29E 1980 FNL & 1350 FEL Elevation - 3565' 0 15 sx, 50' cmt plug @ surface 11 3/4" 42 # H-40 @ 439', 290 sx C, circ. 58 sx 25 sx, 100' cmt plug 389 - 489' 8 5/8" 32# 8rd J-55 STC @ 2,650', C/w 650 sx lite, 150 sx C , circ. 127 sx 30 sx , 100' cmt plug 2600 - 2700', tagged. 40 sx, 100' cmt plug 3800 - 3900' 45 sx, 100' cmt plug, 5914 - 6014' 1 1 TOP CUE 40 sx, 92' cmt plug, 7138 - 7230' 45 sx, 100' cmt plug, 8520 - 8620' 40 sx, 100' cmt plug 10,388 - 10,488' Open hole, TD @ 10,960' mud |



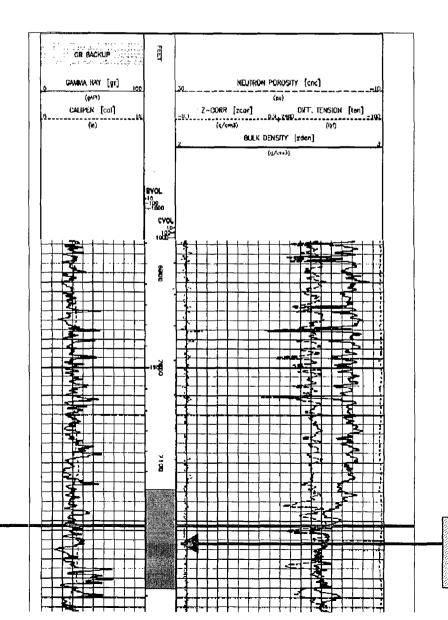
300153069000



ENRON OIL & GAS CO CONOCO '9' STATE CO 1 1980 FNL 1350 FEL

TWP: 17 S - Range: 29 E - Sec. 9

Datum=3583



T/Wolfcamp



Point of Diversion by Location New Mexico Office of the State Engineer

(with Owner Information)

No PODs found.

UTMNAD83 Radius Search (in meters):

Easting (X): 585701

Northing (Y): 3635328

Radius: 1610

2/19/2010: Fresh Water Well Search, COG SENM Empire State SWD #2, 1 mile radius of location. No wells found The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data. 2/19/10 9:31 AM

POINT OF DIVERSION BY LOCATION

Legal Notice

COG Operating LLC is applying to drill the Empire State SWD #2 as a water disposal well.

The well is located in 1980' FNL & 1980' FWL, Sec. 9, T. 17 S., R. 29 E., Eddy County, NM. The well will be dispose of water produced from oil and gas wells into the Cisco Reef zone at a depth of 8300' to 8900' at a maximum rate of 20,000 barrels of water per day and at a maximum pressure of 1,720 psi.

Interested parties must file objections or requests for hearing with the NM Oil Conservation Division, 12/20 South Saint Francis Dr., Santa Fe, NM 87505, within 15 days.

Additional information can be obtained by contacting Tye Orr Veritas 321 Energy Partners, LP P.O. Box 173 Midland, TX (432) 349-4729



New Mexico State Land Office P.O. Box 1148 Santa Fe, NM 87504

COG Operating LLC is applying (see attached application) to drill a salt water disposal well as described below. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well: Empire State SWD #2

Proposed Disposal Zone: Cisco Reef (from 8,300' to 8,900) Location: 1980' FNL & 1980' FWL Sec 9, T 17S, R29E

Eddy County, NM

<u>Approximate Location:</u> 3 miles East of Artesia, NM <u>Applicant Name:</u> COG Operating LLC (432) 685-4340

Applicant's Address: 550 West Texas, Suite 1300, Midland, TX 79701

Submittal Information: Application for a water disposal well will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

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7007	Sent To JUNNO. Street, Apt. No.; or PO Box No. City, State, ZIP+4	xico State du D. Box 1140	nd office	

Sincerely,

Tony Esslinger

02 • 432.682.4002 • 432.684.4741 fax



Bureau of Land Management 620 E Greene Street Carlsbad, NM 88220

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לטטי מ	Sept To Sired Apt. No. Sired Apt. No. Or PO Box No. City, State, ZIP-Ap 12	l (ard Ma (120 Gree And hm	nagement ne street 88220

Sincerely.

ConocoPhillips
PO Box 2197
Houston, TX 77252

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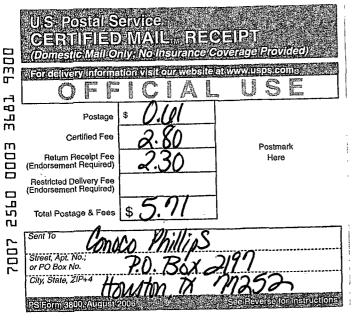
Eddy County, NM

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Sincerely,

Tony Esslinger

111 N. Sepulveda Blvd, Suite 250 Manhattan Beach, CA 90266

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Please call me if you have any questions.

ENGIELE DE VIVANIE 9089 3681 Postmark Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) 2560 700

Sincerely,



Marks & Garner Prod Co Ltd PO Box 1089 Hobbs, NM 88241

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Please call me if you have any questions.

Postage \$ Postmark Here

Return Receipt Fee (Endorsement Required)

Restricted Delivery Fee (Endorsement Required)

Total Postage & Fees \$ 5.71

Sent To Med E Cauner Prod. Ltd. Co.

City, State, ZIP+4

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Sincerely,

Tony Esslinger

702 • 432.682.4002 • 432.684.474I fax



J.E. Roye and Rozelle V. Roye 2014 Gila Rd Odessa, TX 79763

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Sincerely,



Gayle S. Smith 9430 Manor Dr La Mesa, CA 91942

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Please call me if you have any questions.

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Sincerely

Tony Esslinger

9702 • 432.682.4002 • 432.684.4741 fax



JEM Resources, Inc. 512 W Texas Ave Artesia, NM 88210

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Sincerely,



OXY USA WTP, Inc. PO Box 50250 Midland, TX 79710

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Pitch Energy Corp. PO Box 304 Artesia, NM 88211

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	<i>(V</i>	CTVXIN, III L	See Reverse for Instructions	

Sincerely,



Magnum Hunter Production, Inc. 600 Las Colinas Blvd, Suite 1100 Irving, TX 75039

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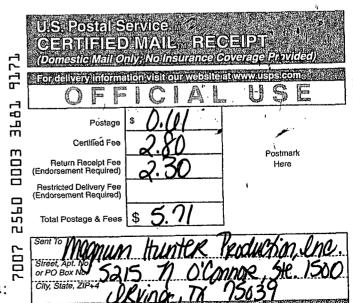
Eddy County, NM

<u>Approximate Location:</u> 3 miles East of Artesia, NM <u>Applicant Name:</u> COG Operating LLC (432) 685-4340

Applicant's Address: 550 West Texas, Suite 1300, Midland, TX 79701

<u>Submittal Information:</u> Application for a water disposal well will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.





Magnum Hunter Production, Inc. 5215 N O'Connor, Suite 1500 Irving, TX 75039

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Postaje Servicem

GERTIFIED WAIL RECEIPT

(Pomestic Mallionity Notinsurance Coverage linovided)

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Sincerely



Enercorp Resources, Inc. 101 W Goodwin Ave Victoria, TX 77901

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Please call me if you have any questions.

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PS Form 3800 August 2006 See Reverse for Instructions

JODE

EUUU Udca

Sincerely,

Tony Esslinger

Marbob Energy Corp. PO Box 227 Artesia, NM 88211

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Please call me if you have any questions.

(Domestic Mail @		Poverage Provided)
Postage Certified Fee Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) Total Postage & Fees	\$ 0.01 2.80 2.30	Postmark Here
Sent To Street, Apt. No., or PO Box No. City, State, ZIP+4	ob Energy D. Box a	9 Capp. 227 88211

PS)Form 3800 August 2006



Brock Resources, Inc. 225 Baronne St Suite 700 New Orleans, LA 70112

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Please call me if you have any questions.

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Sincerely,



Freedom Energy, LLC RR 649 N 13th Street Lake Arthur, NM 88253

COG Operating LLC is applying (see attached application) to drill a salt water disposal well as described below. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

Postage \$ 0.00

Return Receipt Fee (Endorsement Required)

Restricted Delivery Fee (Endorsement Required)

Total Postage & Fees \$ 5,771

Sireet, Apt. No.; or PO Box No.

City, State, ZiP+4

CERTIFIED WAN IN RECEIPT

(Postage S 0.00

Postmark Here

Postmark Here

Postmark Here

Return Receipt Fee (Endorsement Required)

Total Postage & Fees \$ 5,771

Sincerely,
Tony Esslinger



BP America Production Co. PO Box 3092 Houston, TX 77253

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Sincerely.



Devon Energy Corp. 20 North Broadway Ave Ste 1500 Oklahoma City, OK 73102

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Please call me if you have any questions.

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TOOL

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Sincerely,

From:

Jones, William V., EMNRD

Sent:

Monday, March 15, 2010 3:21 PM

To:

'Mark Fairchild'

Cc:

Ezeanyim, Richard, EMNRD; Reeves, Jacqueta, EMNRD; 'Wesley_Ingram@blm.gov';

Warnell, Terry G, EMNRD

Subject:

Disposal Application from COG Operating LLC: Empire State SWD #2 30-015-NA Proposed

new well for disposal into the Cisco Reef 8300 - 8900

Hello Mark: ANOTHER EMAIL FOR ANOTHER WELL

After reviewing I have the following requests:

a. Please send a list of all anticipated formation names that will be contributing waters to this well and a "typical" analysis for each.

b. Your application shows a search of the State Engineer site to look for water wells. Please ask your field people to locate the nearest Windmill or Cattle tank and get a sample for analysis if located within 1 mile of this well.

c. The newspaper notice was confusing as listing Veritas 321 Energy Partners as contact info – is this correct? If not, please renotice. Another point is that newspaper notices should have an informal location in addition to a legal location that gives the reader a general idea of where the well is located – for example, 4 miles NW of Loco Hills, NM.

d. We ask that the applicant break up the ½ mile AOR into consistently owned "tracts" of land and list these tracts with the owners of each tract. Please note that if there is a Lessee of a tract of land at Cisco Reef depths, then you don't have to notice the mineral interest owner(s) of the Cisco Reef depth. That being said, THANK YOU for being thorough with the notice.

e. I did see that Cimarex, EOG, and Aspen Pumping Services operate shallower wells and therefore may own rights to the Cisco depths – if there is a question, please send them notice also.

f. This is a new proposed well in an area where the well records indicate older wells had difficulty circulating adequate cement — See the records on 30-015-35219. Therefore any approved injection permit may have a stipulation that a cement bond log be run not only to locate cement tops, but to locate areas will poor cement bond.

Your AOR well list failed supply Wellbore Diagrams for P&Aed wells and only listed "proposed" casing/cementing data. Please send wellbore diagrams for P&Aed wells and "actual" records of casing/cement.

h. The Conoco 9 State Com #1 30-015-30690 well is plugged in the AOR with plugs that do not isolate the Wolfcamp from the Cisco formations. That well will have to be re-entered and replugged so as to isolate the Cisco Reef from formations located above or below the disposal interval. The SWD permit issued will have a stipulation to this effect.

i. This is a "State" owned well, so it should not take long to obtain an APD from the district office. As soon as the API number is available for the subject well – send it to my attention, so we can update our database.

Thank You for this application.

Regards,

William V. Jones PE New Mexico Oil Conservation Division 1220 South St. Francis Santa Fe, NM 87505 505-476-3448

From:

Jones, William V., EMNRD

Sent:

Monday, April 12, 2010 4:05 PM

To:

'Mark Fairchild'

Cc:

Ezeanyim, Richard, EMNRD; Reeves, Jacqueta, EMNRD

Subject:

Disposal Application from COG Operating LLC: Empire State SWD #2 30-015-NA Proposed

new well for disposal into the Cisco Reef formation 8300 - 8900

Hello again Mark:

Thank you for the reply back on many of the 3/15/10 requested items.

There are still a few issues, but the main one in this case is the issue of the Conoco 9 State Com #1 30-015-30690. This well is not plugged such that the Wolfcamp is isolated from the proposed disposal interval – and Cimarex operates a Wolfcamp well in the Area of Review. Also, notice was not sent to Cimarex in this case – that I have a record of.

In addition, this Conoco 9 State Com #1 is not plugged to isolate the proposed disposal interval from deeper – upper Penn intervals.

We cannot approve this disposal application unless you agree to re-enter this well and set new plugs to isolate the proposed Cisco disposal interval from upper and lower strata.

The OCD could approve a permit with the provision this Conoco 9 State Com #1 well be re-entered and replugged. Let me know if you want this? If so, please answer the following questions that from my records, appear remaining from the 3/15/10 email:

WSON

Please send a list of all anticipated formation names that will be contributing waters to this well and a "typical" analysis for each.

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I did see that Cimarex, EOG, and Aspen Pumping Services operate shallower wells and therefore may own rights to the Cisco depths – if there is a question, please send them notice also.

e. Does the State Land Office own the surface where the well is to be located?

f. As soon as the API number is available for the subject well – send it to my attention, so we can update our database.

Since it appears the plugged Conoco 9 State Com #1 30-015-30690 must be re-entered and re-plugged, COG could consider re-entering this well, installing casing, and using it for an SWD well? Of course, a new AOR would need to be examined.

You always have the option of appearing before an examiner and providing additional evidence.

Thank You again for this application.

Regards,

William V. Jones PE New Mexico Oil Conservation Division 1220 South St. Francis Santa Fe, NM 87505 505-476-3448

From:

Mark Fairchild [MFairchild@conchoresources.com]

Sent:

Tuesday, April 13, 2010 7:59 AM

To:

Jones, William V., EMNRD

Subject:

RE: Disposal Application from COG Operating LLC: Empire State SWD #2 30-015-NA

Proposed new well for disposal into the Cisco Reef formation 8300 - 8900

Attachments:

representative_sample_blinebry_formation.pdf; representative_sample_paddock_formation.pdf

William, the two representative water samples are attached. Each zone contributes approximately 50% of the volume we dispose of.

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



CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

Sent: Monday, April 12, 2010 5:05 PM

To: Mark Fairchild

Cc: Ezeanyim, Richard, EMNRD; Reeves, Jacqueta, EMNRD

Subject: Disposal Application from COG Operating LLC: Empire State SWD #2 30-015-NA Proposed new well for disposal

into the Cisco Reef formation 8300 - 8900

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Regards,

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Catalyst Oilfield Services 11999 E Hwy 158 Gardendale, TX 79758 (432) 563-0727 Fax: (432) 224-1038

Water Analysis Report

Customer:	COG Operating LLC - NM		Sample #:	6861	
Area:	Artesia		Analysis ID #:	216	
Location:	Typical Blinebry	0			
Sample Point:	Wellhead				

Sampling Date:	1/11/07	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	2/7/07	Chloride:	152968.0	4314.67	Sodium:	57440.1	2498.5
Analyst:	Mitchell Labs	Bicarbonate:	62.8	1.03	Magnesium:	4065.0	334.4
TDS (mg/l or g/m3):	244706.2	Carbonate:			Calcium:	29844.8	1489.26
Density (g/cm3):	1.17	Sulfate:	320.0	6.66	Strontium: Barium:		
					iron:	4.9	0.18
Hydrogen Sulfide:	5				Manganese:	0.600	0.02
Carbon Dioxide:	61.6						
_		pH at time of samp	ling:	6.5			
Comments:		pH at time of analysis:					
		pH used in Calculation:		6.5			
		Temperature @ la	b conditions (F):	70	Conductivity (mi	225000 .0444	

	Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl											
Temp °F		alcite aCO ₃		sum 4*2H ₂ 0	Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄			
	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount		
80	0.38	2.22	-0.24	0.00	-0.20	0.00	0.00	0.00	0.00	0.00		
100	0.45	2.77	-0.31	0.00	-0.21	0.00	0.00	0.00	0.00	0.00		
120	0.51	3.33	-0.37	0.00	-0.18	0.00	0.00	0.00	0.00	0.00		
140	0.57	3.88	-0.41	0.00	-0.13	0.00	0.00	0.00	0.00	0.00		



Catalyst Oilfield Services 11999 E Hwy 158 Gardendale, TX 79758 (432) 563-0727 Fax: (432) 224-1038

Water Analysis Report

Customer:	COG Operating LLC - NM		Sample #:	6518		
Area:	Artesia		Analysis ID #:	166		
Location:	Typical Paddock	0				
Sample Point:	Wellhead					

Sampling Date:	10/18/06	Anions	mg/l	meq/l	Cations	mg/l	meq/I	
Analysis Date:	10/20/06	Chloride:	118129.8	3332.01	Sodium:	63736.9	2772.4	
Analyst:	Mitchell Labs	Bicarbonate:	125.7	2.06	Magnesium:	1356.6	111.6	
TDS (mg/l or g/m3): Density (g/cm3):	193512.6 1.135	Carbonate: Sulfate:	800.0	16.66	Calcium: Strontium: Barium:	9326.4	465.39	
					Iron:	36.1	1.3	
Hydrogen Sulfide:	5				Manganese:	1.070	0.04	
Carbon Dioxide:	57							
_		pH at time of sampl	ing:	6.9				
Comments:		pH at time of analysis:						
}		pH used in Calculation: 6.9		6.9				
		Temperature @ lab conditions (F): 75			Conductivity (micro-ohms/cm): Resistivity (ohm meter):		375000 .0267	

		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl											
Temp	Calcite CaCO ₃		, ,	Gypsum Anhydrit aSO ₄ 2H ₂ 0 CaSO		•			Barite BaSO ₄				
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount			
80	0.68	7.56	-0.23	0.00	-0.20	0.00	0.00	0.00	0.00	0.00			
100	0.72	8.72	-0.30	0.00	-0.21	0.00	0.00	0.00	0.00	0.00			
120	0.75	9.89	-0.36	0.00	-0.19	0.00	0.00	0.00	0.00	0.00			
140	0.79	11.05	-0.41	0.00	-0.15	0.00	0.00	0.00	0.00	0.00			

From:

Jones, William V., EMNRD

Sent:

Tuesday, April 13, 2010 11:21 AM

To:

'Mark Fairchild'

Subject:

Disposal Applications from COG Operating LLC: Empire State SWD #2 and Federal #3

Mark:

Let me know after you check with Veritas about noticing Marbob and Hanson Energy on the #3 well?

Also, let me know if these footage locations are fixed? (The disposal permits are site specific, so once the permit is issued, if the footage location changes, the permit would no longer be valid and it would require a new application.)

Thanks for the water analysis.

Will

From:

Tye Orr [tye@veritas321.com]

Sent:

Friday, April 16, 2010 2:11 PM Jones, William V., EMNRD

To: Cc:

mfairchild@conchoresources.com

Subject:

Extended Notices

Attachments:

Extended Notice (Aspen).pdf; ATT3669687.txt; Extended Notice (Cimarex).pdf; ATT3669688.txt; Extended Notice (EOG).pdf; ATT3669689.txt; Extended Notice (Hanson).pdf; ATT3669690.txt; Extended Notice (Marbob).pdf; ATT3669691.txt

William, attached are the notices you had in question for the Empire State SWD #2 and #3 wells that I have applied for on behalf of Concho. All have been mailed as of today. These are for your records per your request. Please let me know if you have any questions. Thanks.

Plant Blo

From:

Mark Fairchild [MFairchild@conchoresources.com]

Sent:

Friday, April 16, 2010 8:40 AM Jones, William V., EMNRD

Cc:

Robert Ready; Tye Orr

Subject:

RE: Empire Area SWD wells #2 and 3

Just talked to Ty and he will mail today!

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



CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

Sent: Friday, April 16, 2010 9:40 AM

To: Mark Fairchild

Subject: RE: Empire Area SWD wells #2 and 3

Mark:

Sounds like a plan.

If you noticed other parties other than the BLm, please send the receipts.

William V. Jones PE New Mexico Oil Conservation Division 1220 South St. Francis Santa Fe, NAI 87505 505-476-3448

From: Mark Fairchild [mailto:MFairchild@conchoresources.com]

Sent: Friday, April 16, 2010 7:50 AM

To: Jones, William V., EMNRD

Cc: Erick Nelson; Robert Ready; Tye Orr; Phyllis Edwards; Robyn Odom; Keith Corbett

Subject: Empire Area SWD wells #2 and 3

William, just got off the phone with Mr. Ingram of the BLM and he has #3 on his desk and all is good. Should sign this date. Will await the now 14 days for release of SWD permit and then send the API's to you when y'all issue them. Please let me know of anything that needs our attention. Thanks!



EOG Resources, Inc. 4000 N. Big Spring St # 500 Midland, TX 79705

COG Operating LLC is applying (see attached application) to drill a salt water disposal well as described below. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well: Empire State SWD #2

Proposed Disposal Zone: Cisco Reef (from 8,300' to 8,900')

Location: 1980' FNL & 1980 FWL Sec 9, T17S, R29E

Eddy County, NM

Approximate Location: 3 miles East of Artesia, NM Applicant Name: COG Operating LLC (432) 685-4340

Applicant's Address: 550 West Texas, Suite 1300, Midland, TX 79701

Submittal Information: Application for a water disposal well will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

Tve Orr

Consulting Landman

(432) 349-4729

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Cimarex Energy Co. 600 N. Marienfeld St. # 600 Midland, TX 79701

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Please call me if you have any questions.

Sincerely,

Tye Orr

Consulting Landman

(432) 349-4729

U.S. Postal Service CERTIFIED MAIL RECEIPT

(Dome-Siz Mail Only, National Receipt Revided)

For delivery information district website at www.usas.abios

Poetage \$ 78

Certified Fee \$ 2.30

Restricted Outbory Fee (Endorsement Required)

Restricted Outbory Fee (Endorsement Required)

Total Poutage & Fees \$ 5.38

Seet Apr. No.
Or PO Box No.
City, Stete, 21Pty

Middowl, TX 79701



Aspen Pumping Services 1218 W. Pueblo Ave. Hobbs, NM 88240

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<u>Approximate Location</u>: 3 miles East of Artesia, NM <u>Applicant Name</u>: COG Operating LLC (432) 685-4340

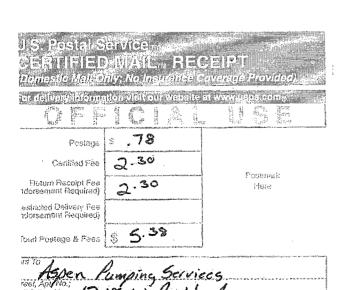
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Please call me if you have any questions.

Sincerely,

Tye Orr Consulting Landman (432) 349-4729





April 23, 2010

MFairchild@conchoresources.com

C.O.G. Operating 550 W. Texas, Ste 100 Midland, TX 79701

Attn: MARK FAIRCHILD

RE: CONOCO 9 STATE COM #1

Eddy County, NM

Procedures:

1. M.I. R.U. P&A equip. Build WH. NU to drill out well – Reverse Unit, 6 collars

2. After well drilled out – RIH w/ 21/8" WS to 10,488' – Spot 40sx cmt. WOC to Tag

3. Tag plug. Mix circulate hole w/ MLF.

4. PUH to 9,880' – Spot 40sx cmt.

-all 8,00 pwg

5. PUH to 8,380' – Spot 65sx cmt.

- 6. PUH to 7,450' Spot 65sx cmt.
- 7. PUH to 6,014' Spot 45sx cmt.
- 8. PUH to 3,900' Spot 40sx cmt.
- 9. PUH to 2,700' Spot 40sx cmt. WOC-Tag.
- 10. PUH to 489' Spot 40sx cmt. WOC-Tag.
- 11. 60sx cmt to surface.
- 12. R.D. M.O.

Estimate: \$34,976.00 for Plugging

Estimate: \$12,874.00 for Reverse Unit (5 days)

(\$3,879 1st Day, \$1,900/day after, \$159/day for stripper rubber, \$600 water)

Prices are subject to change after P & A procedure begins if problems arise during plugging procedure. This bid does not include any "Off Turn Key" charges. Any Off Turn Key charges will be added at the end of the job, if we do job as a bid. Location must be cleared/cleaned before P & A Rig can move in/out.

Estimate will expire 90 days from April 23, 2010.

Basic Energy Services will furnish the workstring.

Any drilling that has to be done will be at Company's own expense. Also, Workstring will have to be furnished for drilling.

Bid includes 2 3/8" Workstring, BOP, pumps & cement equipment. Basic Energy will provide Wireline services per estimate (CIBP, perforating, cutting, etc.)

All fluids "hauled off" will be charged to COG Operating. Disposal will be furnished by COG Operating.

COG Operating will furnish their own flow pit according to the O.C.D. & B.L.M. rules & regulations. Basic Energy Services will furnish the split frac tank for all M.L.F.

If any changes are made in the field by the B.L.M., O.C.D. or Texas Railroad Commission, additional charges will be incurred.

In Texas, it is required that the oil company is to provide a company representative on location while cementing.

This Estimate is based on information furnished to Basic Energy by your company. In the event operations are delayed or restricted because of unknown wellbore conditions or changes beyond our control to original approved regulatory form, charges will revert to standard hourly rates until such problems are corrected. In the event that this occurs, your company representative will be notified. As of March 01, 2003, all anchors must have been tested within the last two years. If a Basic Energy Services flow pit is used to circulate into, it will be cleaned at Customer's expense.

*** Due to shortage Water Truck availability, any "unforeseen" downtime, due to waiting on Water Trucks, will be charged at regular rig rate.

Thank you for this opportunity to furnish this Estimate for your plugging and abandonment.

Sincerely,

Randall Minear, P & A Supervisor

RM/gb

	/ $(+$										
	(AW)										
	Injection Permit Checklist (1/30/09)										
	Case R SWD FX PMX IPI Permit Date 3 1910 UIC Cu										
	# Wells _ Well Name: Enfire State Swo # 2										
	API Num: (30-) 015- NA Spud Date. New Vell New/Old: New/Old: (UIC primacy March 7, 1982)										
	Footages 1980 FNL/1980 FWL Unit FSec 9 Tap 175 Rge 29 E County EDDY										
	Operator: COG Operator Contact Mark A. Fanishille										
	OGRID: 22987 RULE 5 9 Compliance (Wells) 8/1588 (Finan Assur) 0 K										
	Operator Address: 550 West EXPS, SiTE 100, MIRCON, TX 79701										
	Location and Current Status: New Dill Playman For Injection										
	Planned Work to Well: Dick / EQUIP / FIXT Planned Tubing Size/Depth: 3) 2										
	Planned Work to Well: Well FQUIPTED Planned Tubing Size/Depth: S Sizes Setting Cement Cement Top and Determination HolePipe Depths Sx or Cf Method PrPED Feristing Surface 17 7 33/8 450 250/250 Swf Existing Intermediate 12 4 95/8 2500 550/200 Swf										
(HolePipe Depths Sx or Cf Method PrPED										
الزير	-6-isting Surface 17/2 133/8 450 250/250 Swl SYSTEM										
DO	-2/4 -11 0000 1321/2/11/11/11										
•	DV Tool 700 Liner Open Hole Total Depth 7200										
	Well File Reviewed NONE Yet										
	Diagrams: Before Conversion After Conversion Elogs in Imaging File: will be sum										
	Intervals: Depths Formation Producing (Yes/No)										
	Above (Name and Top) 7450 - WC Roef										
	Above (Name and Top) 8150 CISCO										
	Injection Interval TOP: 8300 CISGS Real NO 1660 PSI Max. WHIP										
	Injection										
c	Below (Name and Top) 8764 Continu Demated Hole?										
	Sensitive Areas: Gapitan Reef Gliff-House Salt Depths 400 - 800										
ga -											
V	Fresh Water: Deciha: Novo Wells Analysis? Affirmative Statement 7										
	Disposal Fluid Sources: Analysis?										
	Disposal Interval Production Potential/Testing/Analysis Analysis: will Swolf Test & Get Somple										
	7 7										
/	Notice: Newspaper(Y/N) Surface Owner Sile - Mineral Owner(s)										
_	RULE 26.7(A) Aifected Parties.										
	Area of Review: Adequate Map (Y:N) and Well List (Y:N)										
	Active Wells Num Repairs O Producing in Injection Interval in AOR										
	P3A Wells Num Repairs All Wellbore Diagrams Included?										
	Questions to be Answered Ruckle for Prod. PIPE who is The one Nacyty No Tiet Verilar										
	Come OK?										
	Repley Conon 9 Store Com. #										
	Required Work on This Well:										
	AOR Repairs Needed:										
	Request Sant Reply										

Dane this

11/20/2000/0/1 52 PM

SIMP Charblier yiell ier