

DATE IN 3/5/09	SUSPENSE	ENGINEER D. Brooks	LOGGED IN 3/5/09	TYPE NSL	APP NO. PKA0906453651
----------------	----------	--------------------	------------------	----------	-----------------------

ABOVE THIS LINE FOR DIVISION USE ONLY

RECEIVED

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

2009 MAR 5 PM 1 12:00 South St. Francis Drive, Santa Fe, NM 87505



30-D15
GJ West Coop Unit 253
COG 229137

ADMINISTRATIVE APPLICATION CHECKLIST

6019

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

Application Acronyms:

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

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

- [A] Location - Spacing Unit - Simultaneous Dedication
☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

- [D] Other: Specify _____

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☒ Does Not Apply INTEREST ARE THE SAME

- [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.

ROBYN M. ODOM
Print or Type Name

Robyn M. Odom
Signature

REGULATORY ANALYST
Title

3/4/09
Date

rodome@conchoresources.com
e-mail Address

**G J West Coop Unit #253
Eddy County, NM**

COG is requesting to drill a vertical North ½, NW/4 40 acre spacing
GJ; 7RVS-QN-GB-GLORIETA-YESO oil well
TD of approximately 5700'
Non-standard Location:

2485' FNL & 2190' FEL Sec 21, T17S, R29E, Unit G

This well had to be staked at a non-standard location due to buried pipe lines.

The plan for this well is to complete it in the Yeso formation.

We won't know the exact perms until we drill & log it, but it will be very similar to the G J West Coop Unit #149 which was drilled and is located 2310' FSL 2310' FWL, Section 21, T17S, R29E, Unit K.

The G J West Coop Unit #149 completion divided the Yeso up into 3 perf/stimulation intervals:

1st interval: 5153' – 5381',
acidized w/ 2500 gals,
frac'd w/ 6014 gals 40# gel, 30,777 gals 30# gel, 56,847 gals 40# gel, 8000#
LiteProp, 74,940# 16/30 White Sand, 15,920# SiberProp 16/30 sand.

2nd interval: 4914' – 5050',
acidized w/ 1975 gals,
frac'd w/ 6002 gals 40# gel, 30,757 gals 30# gel, 47,321 gals 40# gel, 8000#
LiteProp, 74,800# 16/30 sand & 15,700# SiberProp 16/30 sand.

3rd interval: 4613' – 4814',
acidized w/ 1850 gals,
frac'd w/ 93,882 gals gel, 8019# LiteProp, 74,900# 16/30 White Sand, 16,220#
SiberProp.

**Attachment 1
Plat & Map**

**Attachment 2
Map & legend of offset wells.**

Attachment 3
Updated land plat showing that COG owns the offset acreage.
The acreage we are encroaching on is the NW/4 of SE/4 of Section 21.
Interests are the same.

COG Operating LLC respectfully requests permission to have this NSL approved.

State of New Mexico

DISTRICT I

1625 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015- 36992	Pool Code 97558	Pool Name <i>Grayburg-Jackson</i> GJ;7RVS-QN-GB-GLORIETA-YESO
Property Code 302497	Property Name GJ WEST COOP UNIT	Well Number 253
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3597'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	21	17-S	29-E		2485	NORTH	2190	EAST	EDDY

Bottom Hole Location If Different From Surface

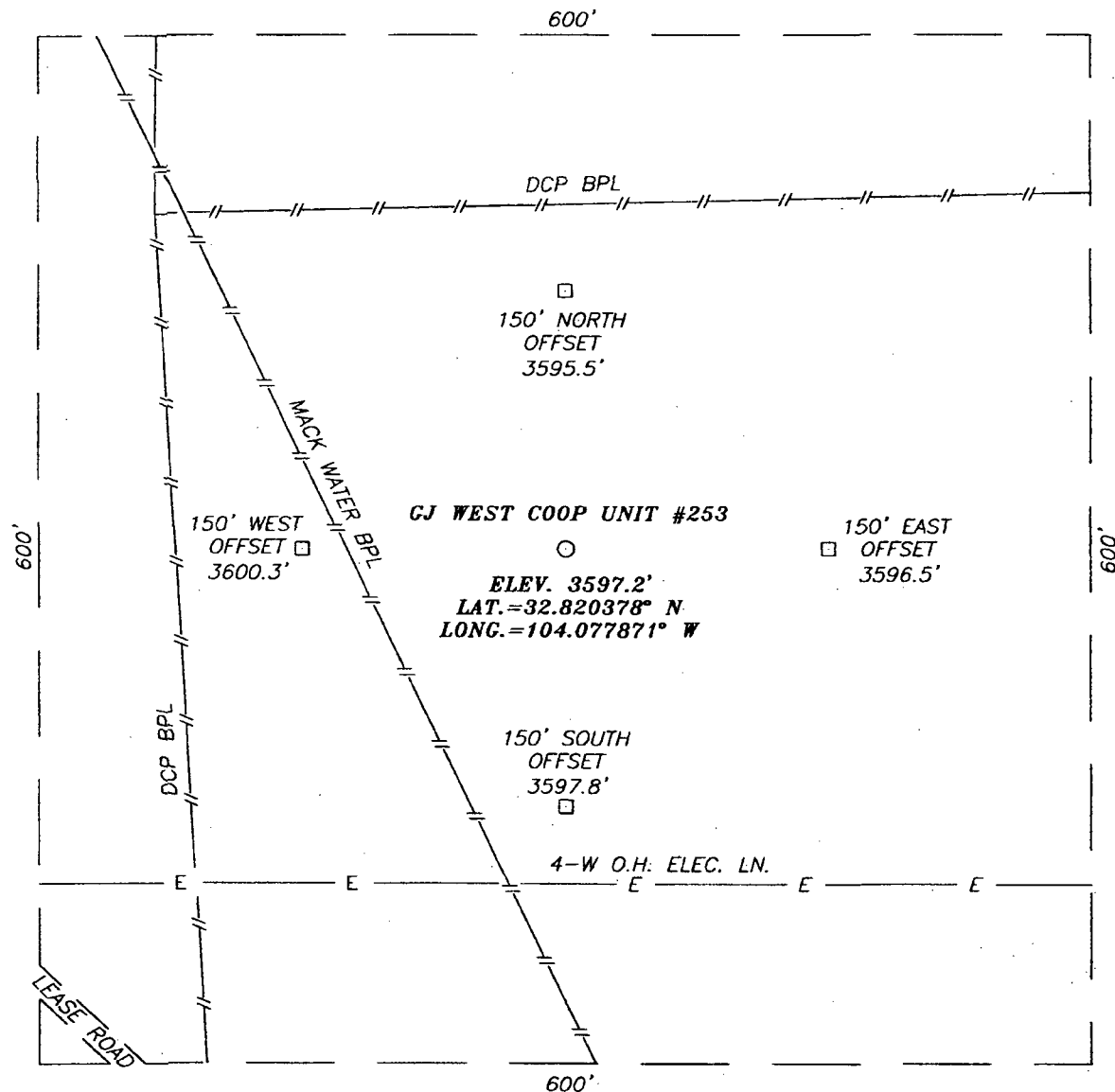
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
-----------------------	-----------------	--------------------	-----------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

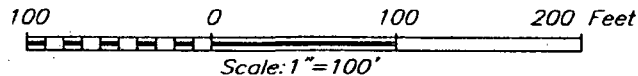
GEODETIC COORDINATES NAD 27 NME Y=662259.4 N X=578479.0 E LAT.=32.820378° N LONG.=104.077871° W	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Robyn Odom</i> 3/4/2009 Signature Date Robyn Odom Printed Name
	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. RONALD J. EIDSON FEBRUARY 13, 2009 Date Surveyed Signature & Seal of Professional Surveyor <i>Ronald J. Eidson</i> 3/02/09 Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239

SECTION 21, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. HWY. #82 AND CO. RD. #212 (VALLEY GAS RD.), GO NORTHWEST ON LEASE ROAD APPROX. 0.3 MILES. THIS LOCATION IS APPROX. 300 FEET NORTHEAST OF LEASE ROAD.



COG OPERATING, LLC

GJ WEST COOP UNIT #253 WELL
 LOCATED 2485 FEET FROM THE NORTH LINE
 AND 2190 FEET FROM THE EAST LINE OF SECTION 21,
 TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.

Survey Date: 2/13/09	Sheet 1 of 1 Sheets
W.O. Number: 09.11.0114	Dr By: AR
Date: 2/27/09	09110114
	Scale: 1"=100'

PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (575) 393-3117

Offset Wells to G J West Coop Unit #253

API#	Operator	Lease	Well#	County	Legal	First Prod.	Last Prod.	Field Name	Reservoir Name	Total Depth	Well Type	Well Status
30-015-03019	MACK ENERGY CORP	G J WEST COOP UNIT	038	EDDY	S-21, T-17S, R-29E	Jan 1967	Dec 1977	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		0	O	Pumping
30-015-03019	MACK ENERGY CORP	G J WEST COOP UNIT	038	EDDY	S-21, T-17S, R-29E	Jan 1969	Aug 1996	GRAYBURG JACKSON	SR-Q-G-SA	0	O	Pumping
30-015-03021	MACK ENERGY CORP	G J WEST COOP UNIT	034	EDDY	S-21, T-17S, R-29E	Jan 1967	Jan 1971	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		0	O	Temporarily Abandoned
30-015-03021	MACK ENERGY CORP	G J WEST COOP UNIT	034	EDDY	S-21, T-17S, R-29E	Jan 1969	Jan 1971	GRAYBURG JACKSON	SR-Q-G-SA	0	O	Temporarily Abandoned
30-015-03026	MACK ENERGY CORP	G J WEST COOP UNIT	030	EDDY	S-21, T-17S, R-29E	Jan 1973	Dec 1977	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		0	O	Pumping
30-015-03026	MACK ENERGY CORP	G J WEST COOP UNIT	030	EDDY	S-21, T-17S, R-29E	Jan 1966	Dec 1989	GRAYBURG JACKSON	SR-Q-G-SA	0	O	Pumping
30-015-03028	COG OPERATING LLC	G J WEST COOP UNIT	024	EDDY	S-21, T-17S, R-29E	Jan 1967	Apr 2007	GRAYBURG JACKSON	SR-Q-G-SA	3,313	O	Active
30-015-10754	MACK ENERGY CORP	G J WEST COOP UNIT	033	EDDY	S-21, T-17S, R-29E	Jan 1967	Oct 1967	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		3,707	G	Flowing
30-015-10754	COG OPERATING LLC	G J WEST COOP UNIT	033	EDDY	S-21, T-17S, R-29E	Feb 1966	Apr 2007	GRAYBURG JACKSON	SR-Q-G-SA	3,707	G	Flowing
30-015-10797	COG OPERATING LLC	G J WEST COOP UNIT	023	EDDY	S-21, T-17S, R-29E	Jan 1970	Apr 2007	GRAYBURG JACKSON	SR-Q-G-SA	7,900	O	Pumping
30-015-10797	MACK ENERGY CORP	G J WEST COOP UNIT	023	EDDY	S-21, T-17S, R-29E	Jan 1967	Dec 1977	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		7,900	O	Pumping
30-015-10807	COG OPERATING LLC	G J WEST COOP UNIT	029	EDDY	S-21, T-17S, R-29E	Jan 2001	Apr 2007	GRAYBURG JACKSON	SR-Q-G-SA	2,855	G	Flowing
30-015-10807	MACK ENERGY CORP	G J WEST COOP UNIT	029	EDDY	S-21, T-17S, R-29E	Jan 1967	Oct 1967	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		2,855	G	Flowing
30-015-10808	MACK ENERGY CORP	G J WEST COOP UNIT	032	EDDY	S-21, T-17S, R-29E	Jan 1967	Dec 1977	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		0	O	Pumping

30-015-10808	COG OPERATING LLC	G J WEST COOP UNIT	032 EDDY	S:21, T:17S, R:29E	Jun 1966	Apr 2007	GRAYBURG JACKSON	SR-Q-G-SA	0	O	Pumping
30-015-10809	MACK ENERGY CORP	G J WEST COOP UNIT	037 EDDY	S:21, T:17S, R:29E	Jan 1970	Aug 1996	GRAYBURG JACKSON	SR-Q-G-SA	2,900	O	Pumping
30-015-10809	MACK ENERGY CORP	G J WEST COOP UNIT	037 EDDY	S:21, T:17S, R:29E	Jan 1969	Dec 1977	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		2,900	O	Pumping
30-015-10810	MACK ENERGY CORP	G J WEST COOP UNIT	045 EDDY	S:21, T:17S, R:29E	Jan 1970	Oct 2001	GRAYBURG JACKSON	SR-Q-G-SA	2,848	O	Active
30-015-10810	MACK ENERGY CORP	G J WEST COOP UNIT	045 EDDY	S:21, T:17S, R:29E	Jan 1967	Dec 1977	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		2,848	O	Active
30-015-10811	MACK ENERGY CORP	G J WEST COOP UNIT	046 EDDY	S:21, T:17S, R:29E	Jan 1972	Dec 1977	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		0	O	Pumping
30-015-10811	COG OPERATING LLC	G J WEST COOP UNIT	046 EDDY	S:21, T:17S, R:29E	Jan 1969	Apr 2007	GRAYBURG JACKSON	SR-Q-G-SA	0	O	Pumping
30-015-10820	MACK ENERGY CORP	G J WEST COOP UNIT	022 EDDY	S:21, T:17S, R:29E	Jan 1970	Jun 2005	GRAYBURG JACKSON	SR-Q-G-SA	2,900	O	Plugged and Abandoned
30-015-10820	MACK ENERGY CORP	G J WEST COOP UNIT	022 EDDY	S:21, T:17S, R:29E	Jan 1969	Aug 1971	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		2,900	O	Plugged and Abandoned
30-015-10821	MACK ENERGY CORP	G J WEST COOP UNIT	036 EDDY	S:21, T:17S, R:29E	Jan 1967	Dec 1977	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		2,900	O	Pumping
30-015-10821	MACK ENERGY CORP	G J WEST COOP UNIT	036 EDDY	S:21, T:17S, R:29E	Jan 1969	Sep 1996	GRAYBURG JACKSON	SR-Q-G-SA	2,900	O	Pumping
30-015-10822	COG OPERATING LLC	G J WEST COOP UNIT	047 EDDY	S:21, T:17S, R:29E	Jan 2001	Apr 2007	GRAYBURG JACKSON	SR-Q-G-SA	2,720	G	Flowing
30-015-10822	MACK ENERGY CORP	G J WEST COOP UNIT	047 EDDY	S:21, T:17S, R:29E	Jan 1967	Oct 1967	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		2,720	G	Flowing
30-015-10823	MACK ENERGY CORP	G J WEST COOP UNIT	035 EDDY	S:21, T:17S, R:29E	Jan 1967	May 1973	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		2,700	O	Pumping
30-015-10823	MACK ENERGY CORP	G J WEST COOP UNIT	035 EDDY	S:21, T:17S, R:29E	Jan 1969	Aug 1996	GRAYBURG JACKSON	SR-Q-G-SA	2,700	O	Pumping
		G J									

30-015-20124	MACK ENERGY CORP	WEST COOP UNIT	48 EDDY	S21, T:17S, R:29E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)	4,228	PO Pumping
30-015-20124	COG OPERATING LLC	G J WEST COOP UNIT	48 EDDY	S21, T:17S, R:29E	GRAYBURG JACKSON	4,228	PO Pumping
30-015-20351	MACK ENERGY CORP	G J WEST COOP UNIT	123 EDDY	S21, T:17S, R:29E	GRAYBURG JACKSON SR ON GB SA	7,005	O Pumping
30-015-25383	COG OPERATING LLC	G J WEST COOP UNIT	069 EDDY	S21, T:17S, R:29E	GRAYBURG JACKSON	4,300	PO Pumping
30-015-25466	COG OPERATING LLC	G J WEST COOP UNIT	073 EDDY	S21, T:17S, R:29E	GRAYBURG JACKSON	4,400	PO Pumping
30-015-25489	COG OPERATING LLC	G J WEST COOP UNIT	078 EDDY	S21, T:17S, R:29E	GRAYBURG JACKSON	4,413	PO Pumping
30-015-25500	COG OPERATING LLC	G J WEST COOP UNIT	075 EDDY	S21, T:17S, R:29E	GRAYBURG JACKSON	4,465	PO Pumping
30-015-25610	COG OPERATING LLC	G J WEST COOP UNIT	82 EDDY	S21, T:17S, R:29E	GRAYBURG JACKSON	4,465	O Pumping
30-015-25633	COG OPERATING LLC	G J WEST COOP UNIT	080 EDDY	S21, T:17S, R:29E	GRAYBURG JACKSON	4,490	PO Pumping
30-015-25691	COG OPERATING LLC	G J WEST COOP UNIT	081 EDDY	S21, T:17S, R:29E	GRAYBURG JACKSON	4,673	PO Pumping
30-015-26743	COG OPERATING LLC	G J WEST COOP UNIT	079 EDDY	S21, T:17S, R:29E	GRAYBURG JACKSON	4,490	PO Pumping
30-015-26769	COG OPERATING LLC	G J WEST COOP UNIT	99 EDDY	S21, T:17S, R:29E	GRAYBURG JACKSON	5,546	O Pumping
30-015-26838	COG OPERATING LLC	G J WEST COOP UNIT	101 EDDY	S21, T:17S, R:29E	GRAYBURG JACKSON	4,450	PO Pumping
30-015-26839	COG OPERATING LLC	G J WEST COOP UNIT	102 EDDY	S21, T:17S, R:29E	GRAYBURG JACKSON	4,450	PO Pumping
30-015-26840	COG OPERATING LLC	G J WEST COOP UNIT	100 EDDY	S21, T:17S, R:29E	GRAYBURG JACKSON	4,475	PO Pumping
	COG OPERATING	G J WEST	S21,				

DI Search Results (Printable Table)

30-015-27257	LLC	COOP UNIT	104	EDDY	T:17S, R:29E	Jun 1993	Apr 2007	GRAYBURG JACKSON	SR-Q-G-SA	5,050	PO	Pumping
30-015-27259	COG OPERATING LLC	G J WEST COOP UNIT	106	EDDY	S:21, T:17S, R:29E	Jun 1993	Apr 2007	GRAYBURG JACKSON	SR-Q-G-SA	5,050	O	Pumping
30-015-27358	COG OPERATING LLC	G J WEST COOP UNIT	113	EDDY	S:21, T:17S, R:29E	Jun 1993	Apr 2007	GRAYBURG JACKSON	SR-Q-G-SA	4,450	PO	Pumping
30-015-27359	COG OPERATING LLC	G J WEST COOP UNIT	114	EDDY	S:21, T:17S, R:29E	Jun 1993	Apr 2007	GRAYBURG JACKSON	SR-Q-G-SA	4,378	PO	Pumping
30-015-27360	MACK ENERGY CORP	G J WEST COOP UNIT	115	EDDY	S:21, T:17S, R:29E	Jul 1993	Apr 2007	GRAYBURG JACKSON SR QN GB SA		4,758	O	Pumping
30-015-27362	MACK ENERGY CORP	G J WEST COOP UNIT	117	EDDY	S:21, T:17S, R:29E	Jul 1993	Apr 2007	GRAYBURG JACKSON SR QN GB SA		4,920	O	Pumping
30-015-27363	COG OPERATING LLC	G J WEST COOP UNIT	118	EDDY	S:21, T:17S, R:29E	Jun 1993	Apr 2007	GRAYBURG JACKSON	SR-Q-G-SA	4,415	PO	Pumping
30-015-27364	COG OPERATING LLC	G J WEST COOP UNIT	119	EDDY	S:21, T:17S, R:29E	Jun 1993	Apr 2007	GRAYBURG JACKSON	SR-Q-G-SA	4,400	PO	Pumping
30-015-27377	MACK ENERGY CORP	G J WEST COOP UNIT	107	EDDY	S:21, T:17S, R:29E	Jul 1994	Apr 2007	GRAYBURG JACKSON SR QN GB SA		5,555	O	Pumping
30-015-27447	COG OPERATING LLC	G J WEST COOP UNIT	120	EDDY	S:21, T:17S, R:29E	Jun 1993	Apr 2007	GRAYBURG JACKSON	SR-Q-G-SA	4,420	PO	Pumping
30-015-28513	COG OPERATING LLC	G J WEST COOP UNIT	131	EDDY	S:21, T:17S, R:29E	Aug 1995	Apr 2007	GRAYBURG JACKSON	SR-Q-G-SA	5,562	O	Pumping
30-015-29180	COG OPERATING LLC	G J WEST COOP UNIT	140	EDDY	S:21, T:17S, R:29E	Dec 1996	Apr 2007	GRAYBURG JACKSON	SR-Q-G-SA	7,500	O	Pumping
30-015-29298	COG OPERATING LLC	G J WEST COOP UNIT	141	EDDY	S:21, T:17S, R:29E	Mar 1997	Apr 2007	GRAYBURG JACKSON	SR-Q-G-SA	5,530	O	Pumping
30-015-30874	EDG RESOURCES INC	CHASE 21 STATE COM	001	EDDY	S:21, T:17S, R:29E			EMPIRE	MORROW, SOUTH (GAS)	11,150	G	Flowing
30-015-27363		G J WEST COOP UT	118	EDDY	S:21, T:17S, R:29E	Jun 1993	Dec 1993	GRAYBURG JACKSON	SR-Q-G-SA	4,415	PO	Pumping
30-015-27362		G J WEST COOP UT	117	EDDY	S:21, T:17S, R:29E	Jul 1993	Dec 1993	GRAYBURG JACKSON	SR-Q-G-SA	4,920	O	Pumping

30-015-27360	G J WEST COOP UT	115 EDDY	S 21, T:17S, R:29E	Jul 1993	Dec 1993	GRAYBURG JACKSON	SR-Q-G-SA	4,758	O Pumping
30-015-00000	G J WEST COOP UT	098 EDDY	S 21, T:17S, R:29E	Dec 1991	Dec 1993	GRAYBURG JACKSON	SR-Q-G-SA		G Active
30-015-27358	G J WEST COOP UT	113 EDDY	S 21, T:17S, R:29E	Jun 1993	Dec 1993	GRAYBURG JACKSON	SR-Q-G-SA	4,450	PO Pumping
30-015-27359	G J WEST COOP UT	114 EDDY	S 21, T:17S, R:29E	Jun 1993	Dec 1993	GRAYBURG JACKSON	SR-Q-G-SA	4,378	PO Pumping
30-015-27447	G J WEST COOP UT	120 EDDY	S 21, T:17S, R:29E	Jun 1993	Dec 1993	GRAYBURG JACKSON	SR-Q-G-SA	4,420	PO Pumping
30-015-25489	G J WEST COOP UT	078 EDDY	S 21, T:17S, R:29E	Jan 1986	Dec 1993	GRAYBURG JACKSON	SR-Q-G-SA	4,413	PO Pumping
30-015-25500	G J WEST COOP UT	075 EDDY	S 21, T:17S, R:29E	Jul 1986	Dec 1993	GRAYBURG JACKSON	SR-Q-G-SA	4,465	PO Pumping
30-015-26840	G J WEST COOP UT	100 EDDY	S 21, T:17S, R:29E	Dec 1991	Dec 1993	GRAYBURG JACKSON	SR-Q-G-SA	4,475	PO Pumping
30-015-27259	G J WEST COOP UT	106 EDDY	S 21, T:17S, R:29E	Aug 1993	Dec 1993	GRAYBURG JACKSON	SR-Q-G-SA	5,050	O Pumping
30-015-25633	G J WEST COOP UT	080 EDDY	S 21, T:17S, R:29E	Feb 1991	Dec 1993	GRAYBURG JACKSON	SR-Q-G-SA	4,490	PO Pumping
30-015-25610	G J WEST COOP UT	82 EDDY	S 21, T:17S, R:29E	Jun 1991	Dec 1993	GRAYBURG JACKSON	SR-Q-G-SA	4,465	O Pumping
30-015-25466	G J WEST COOP UT	073 EDDY	S 21, T:17S, R:29E	Jan 1986	Dec 1993	GRAYBURG JACKSON	SR-Q-G-SA	4,400	PO Pumping
30-015-25691	G J WEST COOP UT	081 EDDY	S 21, T:17S, R:29E	Jan 1987	Dec 1993	GRAYBURG JACKSON	SR-Q-G-SA	4,673	PO Pumping
30-015-26769	G J WEST COOP UT	99 EDDY	S 21, T:17S, R:29E	Aug 1991	Dec 1993	GRAYBURG JACKSON	SR-Q-G-SA	5,546	O Pumping
30-015-03026	G J WEST COOP UT	030 EDDY	S 21, T:17S, R:29E	Jul 1967	Dec 1977	GRAYBURG JKS SR-Q-G-SA(DO NOT USE)	SR-Q-G-SA	0	O Pumping
30-015-03026	G J WEST COOP UT	030 EDDY	S 21, T:17S, R:29E	Jan 1969	Jan 1979	GRAYBURG JACKSON	SR-Q-G-SA	0	O Pumping
30-015-25383	G J WEST COOP UT	069 EDDY	S 21, T:17S, R:29E	Oct 1985	Dec 1993	GRAYBURG JACKSON	SR-Q-G-SA	4,300	PO Pumping
30-015-00000	STATE 21	001 EDDY	S 21, T:17S, R:29E			GRAYBURG	MORROW (GAS)		G Active
30-015-33464	MAC K ENERGY CORP	001 EDDY	S 21, T:17S, R:29E	Jan 1953	Dec 1964	GRAYBURG	MORROW (GAS)	13,000	G Active

LEONARD OIL

S 21,

30-015-33464	COMPANY	STATE B	001 EDDY	T-17S, R-29E	Jan 1955	Dec 1963	GRAYBURG JACKSON	SR-Q-G-SA	13,000	G	Active
30-015-00000	LEONARD OIL CO.	STATE B	008 EDDY	S-21, T-17S, R-29E	Jan 1948	Feb 1960	GRAYBURG JACKSON	SR-Q-G-SA		O	Active
30-015-00000	LEONARD OIL CO	STATE B	015 EDDY	S-21, T-17S, R-29E	Jul 1961	Dec 1964	GRAYBURG JACKSON	SR-Q-G-SA		G	Active
30-015-00000	COCKBURN, BARNEY	RAMAPO ST.	002 EDDY	S-21, T-17S, R-29E	Aug 1955	Dec 1955	RED LAKE POOL			O	Active
30-015-00000	MANA RESOURCES, INCORPORATED	STATE 21 COM	001 EDDY	S-21, T-17S, R-29E	Apr 1971	Dec 1971	GRAYBURG MORROW			G	Active
30-015-33464	LEONARD OIL CO	STATE B9563	001 EDDY	S-21, T-17S, R-29E	Jan 1960	Dec 1960	GRAYBURG JACKSON	SR-Q-G-SA	13,000	G	Active
30-015-30874	COG OPERATING LLC	CHASE STATE COM	001 EDDY	S-21, T-17S, R-29E	Nov 2005	Nov 2008	SWD	CISCO	11,150	G	Flowing
30-015-33464	COG OPERATING LLC	PATRIOT STATE COM	001 EDDY	S-21, T-17S, R-29E			RED LAKE	QUEEN-GRAYBURG-SA	13,000	G	Active
30-015-00000	TENNECO OIL CO	STATE I	015 EDDY	S-21, T-17S, R-29E	Jan 1965	Dec 1965				G	Active
30-015-33464	TENNECO OIL CO.	STATE M	001 EDDY	S-21, T-17S, R-29E	Jan 1965	Dec 1965			13,000	G	Active
30-015-20351	COG OPERATING LLC	G J WEST COOP UNIT	123 EDDY	S-21, T-17S, R-29E	Jan 2005	Apr 2007	GRAYBURG JACKSON	SR-Q-G-SA	7,005	O	Pumping
30-015-35454	COG OPERATING LLC	G J WEST COOP UNIT	147 EDDY	S-21, T-17S, R-29E	May 2007	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)		5,500	PO	Active
30-015-35456	COG OPERATING LLC	G J WEST COOP UNIT	152 EDDY	S-21, T-17S, R-29E	May 2007	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)		5,500	PO	Active
30-015-35455	COG OPERATING LLC	G J WEST COOP UNIT	149 EDDY	S-21, T-17S, R-29E	May 2007	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)		5,515	PO	Active
30-015-35578	COG OPERATING LLC	G J WEST COOP UNIT	156 EDDY	S-21, T-17S, R-29E			GJ, 7RVS-QN-GB-GLORIETA-YESO 97558		5,625	O	Active
30-015-35579	COG OPERATING LLC	G J WEST COOP UNIT	157 EDDY	S-21, T-17S, R-29E			GJ, 7RVS-QN-GB-GLORIETA-YESO 97558		6,116	O	Active
30-015-35580	COG OPERATING LLC	G J WEST COOP UNIT	158 EDDY	S-21, T-17S, R-29E	Sep 2007	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)		6,100	PO	Active
	COG OPERATING	G J WEST		S-21,							

30-015-35581	LLC	COOP UNIT	159	EDDY	T-17S, R-29E	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	5,600	PO	Active
30-015-35454	COG OPERATING LLC	GJ WEST COOP UNIT	147	EDDY	S-21, T-17S, R-29E	GJ; 7RVS-QN-GB-GLORIETA-YESO 97558	5,500	PO	Active
30-015-35456	COG OPERATING LLC	G J WEST COOP UNIT	152	EDDY	S-21, T-17S, R-29E	GJ; 7RVS-QN-GB-GLORIETA-YESO 97558	5,500	PO	Active
30-015-35455	COG OPERATING LLC	G J WEST COOP UNIT	149	EDDY	S-21, T-17S, R-29E	GJ; 7RVS-QN-GB-GLORIETA-YESO 97558	5,515	PO	Active
30-015-35653	COG OPERATING LLC	G J WEST COOP UNIT	163	EDDY	S-21, T-17S, R-29E	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	5,600	PO	Active
30-015-35654	COG OPERATING LLC	G J WEST COOP UNIT	164	EDDY	S-21, T-17S, R-29E	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	5,540	O	Active
30-015-35720	COG OPERATING LLC	G J WEST COOP UNIT	168	EDDY	S-21, T-17S, R-29E	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	5,445	O	Active Permit
30-015-35721	COG OPERATING LLC	G J WEST COOP UNIT	169	EDDY	S-21, T-17S, R-29E	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	5,458	O	Active Permit
30-015-35723	COG OPERATING LLC	G J WEST COOP UNIT	172	EDDY	S-21, T-17S, R-29E	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	5,630	O	Active Permit
30-015-35724	COG OPERATING LLC	G J WEST COOP UNIT	173	EDDY	S-21, T-17S, R-29E	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	5,625	O	Active Permit
30-015-35725	COG OPERATING LLC	G J WEST COOP UNIT	174	EDDY	S-21, T-17S, R-29E	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	5,629	O	Active Permit
30-015-10754	COG OPERATING LLC	G J WEST COOP UNIT	033	EDDY	S-21, T-17S, R-29E	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	3,707	G	Flowing
30-015-10807	COG OPERATING LLC	G J WEST COOP UNIT	029	EDDY	S-21, T-17S, R-29E	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	2,855	G	Flowing
30-015-10822	COG OPERATING LLC	G J WEST COOP UNIT	047	EDDY	S-21, T-17S, R-29E	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	2,720	G	Flowing
30-015-20351	COG OPERATING LLC	G J WEST COOP UNIT	123	EDDY	S-21, T-17S, R-29E	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	7,005	O	Pumping
30-015-27259	COG OPERATING LLC	G J WEST COOP UNIT	106	EDDY	S-21, T-17S, R-29E	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	5,050	O	Pumping

30-015-27360	COG OPERATING LLC	G J WEST COOP UNIT	115 EDDY	S21, T:17S, R:29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	4,758	O Pumping
30-015-27362	COG OPERATING LLC	G J WEST COOP UNIT	117 EDDY	S21, T:17S, R:29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	4,920	O Pumping
30-015-27377	COG OPERATING LLC	G J WEST COOP UNIT	107 EDDY	S21, T:17S, R:29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	5,555	O Pumping
30-015-28513	COG OPERATING LLC	G J WEST COOP UNIT	131 EDDY	S21, T:17S, R:29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	5,562	O Pumping
30-015-29180	COG OPERATING LLC	G J WEST COOP UNIT	140 EDDY	S21, T:17S, R:29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	7,500	O Pumping
30-015-29298	COG OPERATING LLC	G J WEST COOP UNIT	141 EDDY	S21, T:17S, R:29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	5,530	O Pumping
30-015-03028	COG OPERATING LLC	G J WEST COOP UNIT	024 EDDY	S21, T:17S, R:29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	3,313	O Active
30-015-10797	COG OPERATING LLC	G J WEST COOP UNIT	023 EDDY	S21, T:17S, R:29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	7,900	O Pumping
30-015-10808	COG OPERATING LLC	G J WEST COOP UNIT	032 EDDY	S21, T:17S, R:29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	0	O Pumping
30-015-10811	COG OPERATING LLC	G J WEST COOP UNIT	046 EDDY	S21, T:17S, R:29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	0	O Pumping
30-015-20124	COG OPERATING LLC	G J WEST COOP UNIT	48 EDDY	S21, T:17S, R:29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	4,228	PO Pumping
30-015-25383	COG OPERATING LLC	G J WEST COOP UNIT	069 EDDY	S21, T:17S, R:29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	4,300	PO Pumping
30-015-25466	COG OPERATING LLC	G J WEST COOP UNIT	073 EDDY	S21, T:17S, R:29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	4,400	PO Pumping
30-015-25489	COG OPERATING LLC	G J WEST COOP UNIT	078 EDDY	S21, T:17S, R:29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	4,413	PO Pumping
30-015-25500	COG OPERATING LLC	G J WEST COOP UNIT	075 EDDY	S21, T:17S, R:29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	4,465	PO Pumping
		G J							

30-015-25610	COG OPERATING LLC	WEST COOP UNIT	82	EDDY	S.21, T.17S, R.29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	4,465	O	Pumping
30-015-25633	COG OPERATING LLC	G J WEST COOP UNIT	080	EDDY	S.21, T.17S, R.29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	4,490	PO	Pumping
30-015-25691	COG OPERATING LLC	G J WEST COOP UNIT	081	EDDY	S.21, T.17S, R.29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	4,673	PO	Pumping
30-015-26743	COG OPERATING LLC	G J WEST COOP UNIT	079	EDDY	S.21, T.17S, R.29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	4,490	PO	Pumping
30-015-26769	COG OPERATING LLC	G J WEST COOP UNIT	99	EDDY	S.21, T.17S, R.29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	5,546	O	Pumping
30-015-26838	COG OPERATING LLC	G J WEST COOP UNIT	101	EDDY	S.21, T.17S, R.29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	4,450	PO	Pumping
30-015-26839	COG OPERATING LLC	G J WEST COOP UNIT	102	EDDY	S.21, T.17S, R.29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	4,450	PO	Pumping
30-015-26840	COG OPERATING LLC	G J WEST COOP UNIT	100	EDDY	S.21, T.17S, R.29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	4,475	PO	Pumping
30-015-27257	COG OPERATING LLC	G J WEST COOP UNIT	104	EDDY	S.21, T.17S, R.29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	5,050	PO	Pumping
30-015-27358	COG OPERATING LLC	G J WEST COOP UNIT	113	EDDY	S.21, T.17S, R.29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	4,450	PO	Pumping
30-015-27359	COG OPERATING LLC	G J WEST COOP UNIT	114	EDDY	S.21, T.17S, R.29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	4,378	PO	Pumping
30-015-27363	COG OPERATING LLC	G J WEST COOP UNIT	118	EDDY	S.21, T.17S, R.29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	4,415	PO	Pumping
30-015-27364	COG OPERATING LLC	G J WEST COOP UNIT	119	EDDY	S.21, T.17S, R.29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	4,400	PO	Pumping
30-015-27447	COG OPERATING LLC	G J WEST COOP UNIT	120	EDDY	S.21, T.17S, R.29E	Jan 2005	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	4,420	PO	Pumping
30-015-35578	COG OPERATING LLC	G J WEST COOP UNIT	156	EDDY	S.21, T.17S, R.29E	Aug 2007	Nov 2008	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	5,625	O	Active
	COG OPERATING	WEST			S.21,						

30-015-35654	LLC	COOP UNIT	164	EDDY	T-17S, R-29E	G.J. 7RVS-QN-GB-GLORIETA-YESO 97558	5,540	O	Active
30-015-35720	COG OPERATING LLC	G J WEST COOP UNIT	168	EDDY	S-21, T-17S, R-29E	G.J. 7RVS-QN-GB-GLORIETA-YESO 97558	5,445	O	Active Permit
30-015-35579	COG OPERATING LLC	G J WEST COOP UNIT	157	EDDY	S-21, T-17S, R-29E	WC G.J(7RVS-QN-GB-SA)GL-Y(PADDOCK)	6,116	O	Active
30-015-35721	COG OPERATING LLC	G J WEST COOP UNIT	169	EDDY	S-21, T-17S, R-29E	G.J. 7RVS-QN-GB-GLORIETA-YESO 97558	5,458	O	Active Permit
30-015-35725	COG OPERATING LLC	G J WEST COOP UNIT	174	EDDY	S-21, T-17S, R-29E	G.J. 7RVS-QN-GB-GLORIETA-YESO 97558	5,629	O	Active Permit
30-015-36054	COG OPERATING LLC	G J WEST COOP UNIT	182	EDDY	S-21, T-17S, R-29E	WC G.J(7RVS-QN-GB-SA)GL-Y(PADDOCK)	5,461	O	Active Permit
30-015-36055	COG OPERATING LLC	G J WEST COOP UNIT	183	EDDY	S-21, T-17S, R-29E	WC G.J(7RVS-QN-GB-SA)GL-Y(PADDOCK)	5,450	O	Active Permit
30-015-36056	COG OPERATING LLC	G J WEST COOP UNIT	184	EDDY	S-21, T-17S, R-29E	WC G.J(7RVS-QN-GB-SA)GL-Y(PADDOCK)	5,473	O	Active Permit
30-015-35721	COG OPERATING LLC	G J WEST COOP UNIT	169	EDDY	S-21, T-17S, R-29E	G.J. 7RVS-QN-GB-GLORIETA-YESO 97558	5,458	O	Active Permit
30-015-35724	COG OPERATING LLC	G J WEST COOP UNIT	173	EDDY	S-21, T-17S, R-29E	G.J. 7RVS-QN-GB-GLORIETA-YESO	5,625	O	Active Permit
30-015-35723	COG OPERATING LLC	G J WEST COOP UNIT	172	EDDY	S-21, T-17S, R-29E	G.J. 7RVS-QN-GB-GLORIETA-YESO	5,630	O	Active Permit
30-015-36227	COG OPERATING LLC	G J WEST COOP UNIT	190	EDDY	S-21, T-17S, R-29E	WC G.J(7RVS-QN-GB-SA)GL-Y(PADDOCK)	5,500	PO	Active Permit
30-015-36236	COG OPERATING LLC	G J WEST COOP UNIT	197	EDDY	S-21, T-17S, R-29E	WC G.J(7RVS-QN-GB-SA)GL-Y(PADDOCK)	5,458	O	Active Permit
30-015-27377	COG OPERATING LLC	G J WEST COOP UNIT	107	EDDY	S-21, T-17S, R-29E	GRAYBURG JACKSON	5,555	O	Pumping
30-015-36054	COG OPERATING LLC	G J WEST COOP UNIT	182	EDDY	S-21, T-17S, R-29E	G.J. 7RVS-QN-GB-GLORIETA-YESO	5,461	O	Active Permit
30-015-36056	COG OPERATING LLC	G J WEST COOP	184	EDDY	S-21, T-17S,	G.J. 7RVS-QN-GB-GLORIETA-YESO	5,473	O	Active Permit

SR-Q-G-SA

30-015-36055	COG OPERATING LLC	G J WEST COOP UNIT	UNIT	183	EDDY	R 29E	GJ, 7RVS-QN-GB-GLORIETA-YESO	5,450	O	Active Permit
30-015-29298	COG OPERATING LLC	G J WEST COOP UNIT	UNIT	141	EDDY	S 21, T-17S, R 29E	YESO, EAST	5,530	O	Pumping
30-015-27377	COG OPERATING LLC	GJ WEST COOP UNIT	UNIT	107	EDDY	S 21, T-17S, R 29E	GJ, 7RVS-QN-GB-GLORIETA-YESO	5,555	O	Pumping
30-015-36700	COG OPERATING LLC	G J WEST COOP UNIT	UNIT	251	EDDY	S 21, T-17S, R 29E	WC GJ(7RVS-QN-GB-SA)GL-Y(PADDOCK)	5,500	PO	Active Permit
30-015-36236	COG OPERATING LLC	G J WEST COOP UNIT	UNIT	197	EDDY	S 21, T-17S, R 29E	GJ, 7RVS-QN-GB-GLORIETA-YESO	5,458	O	Active Permit
30-015-28513	COG OPERATING LLC	G J WEST COOP UNIT	UNIT	131	EDDY	S 21, T-17S, R 29E	GJ, 7RVS-QN-GB-GLORIETA-YESO	5,562	O	Pumping
30-015-29298	COG OPERATING LLC	G J WEST COOP UNIT	UNIT	141	EDDY	S 21, T-17S, R 29E	GJ, 7RVS-QN-GB-GLORIETA-YESO	5,530	O	Pumping
30-015-25610	COG OPERATING LLC	GJ WEST COOP UNIT	UNIT	82	EDDY	S 21, T-17S, R 29E	GRAYBURG JACKSON, SR-Q-G-SA, EMPIRE; GLORIETA-YESO, EAST	4,465	O	Pumping
30-015-26769	COG OPERATING LLC	G J WEST COOP UNIT	UNIT	99	EDDY	S 21, T-17S, R 29E	GJ, 7RVS-QN-GB-GLORIETA-YESO	5,546	O	Pumping

