

DATE IN 9/17/08	SUSPENSE	ENGINEER Brooks	LOGGED IN 9/18/08	TYPE NSL	APP NO. PKVR0826236274
--------------------	----------	--------------------	----------------------	-------------	---------------------------

ABOVE THIS LINE FOR DIVISION USE ONLY

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



COG Operating LLC
 GC Federal #24
 5948

ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

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

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

AGENT
 Title

9/16/08
 Date

rododm@conchoresources.com
 e-mail Address

2008 SEP 17 PM 12 43
 RECEIVED

**G C Federal #24
Lea County, NM**

COG proposes to drill a **DIRECTIONAL** SE /4, 40 acre spacing
Maljamar; Yeso oil well
TD of approximately 7000'

SHL: 1330' FSL & 1290' FEL	Sec 20, T17S, R32E, Unit I
BHL: 1650' FSL & 1650' FEL	Sec 20, T17S, R32E, Unit J

This well had to be drilled at a non-standard location due to sand dunes and pipeline constrictions.

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 C Federal #5 (2210' FSL & 330' FWL, Section 19, Lot 3) which was completed in February 2005.

The G C Federal #5 completion broke the Yeso up into 2 perf/stimulation intervals from: 6360' – 6929'.

1st interval: 6360' to 6553',
acidized w/ 3000 gals,
frac'd w/ 90,006 gals gel, 8,000 # LiteProp, 89,420# 16/30 sand.

2nd interval: 6799' – 6929',
acidized w/ 2500 gals,
frac'd w/ 90,681# gal gel, 8000# LiteProp, & 87,020 gals 16/30 sand.

At this time, we assume the G C Federal #24 should be very similar.

Attachment 1
Plat & map

Attachment 2
Map & legend of offset wells.

Attachment 3
Updated land plat showing that COG Operating LLC owns offset acreage.
The acreage we are encroaching is the SW / 4 of the SE / 4 of Section 20.
COG owns the S / 2 of Section 20.
Interests are the same.

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

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III
[REDACTED] Aztec, NM 87410

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-	Pool Code 44500	Pool Name MALAJAMAR; YESO, WEST
Property Code 302498	Property Name GC FEDERAL	Well Number 24
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3988'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	20	17-S	32-E		1330	SOUTH	1290	EAST	LEA

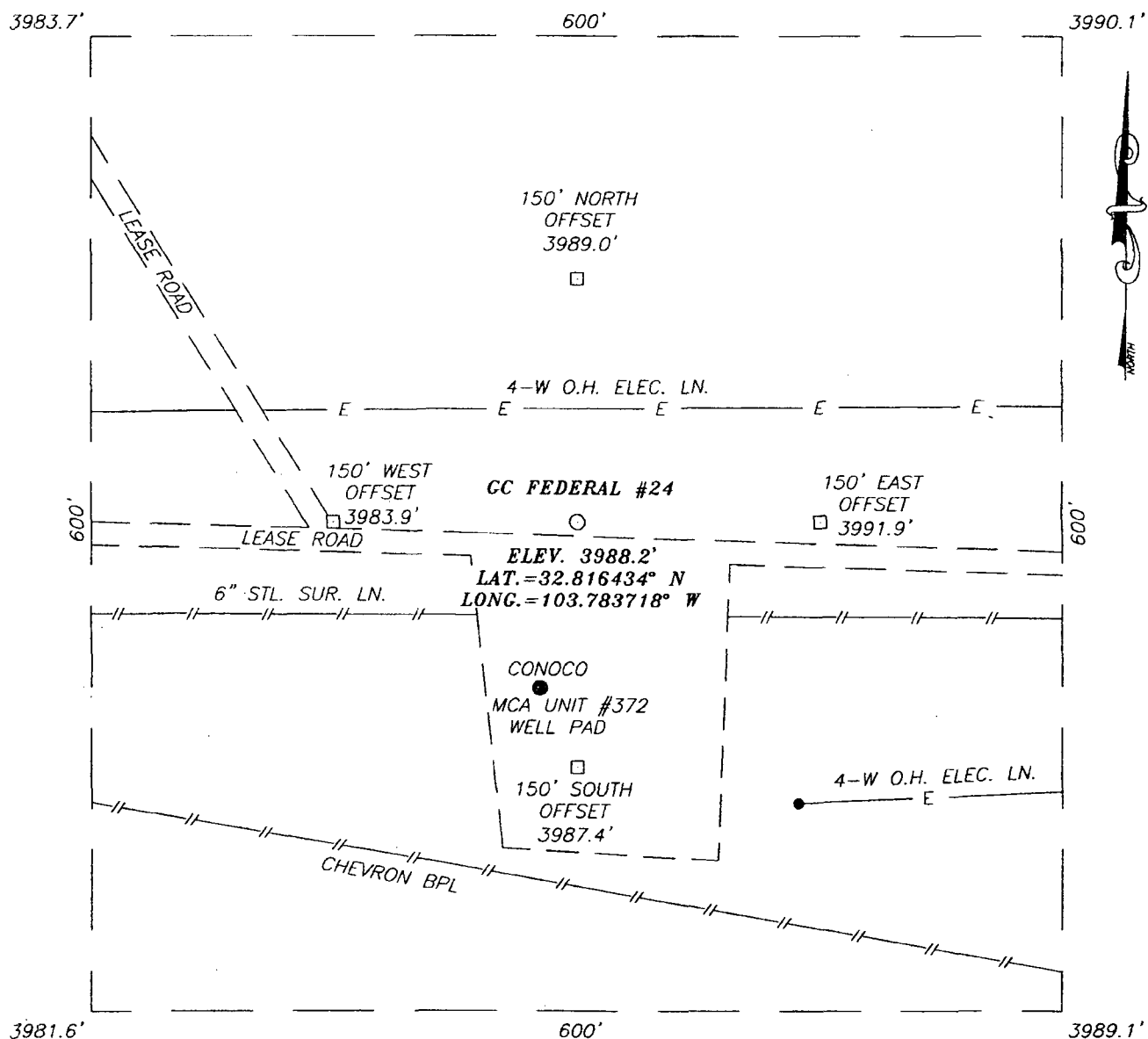
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	20	17-S	32-E		1650	SOUTH	1650	EAST	LEA
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

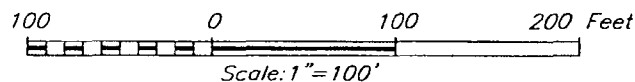
GEODETIC COORDINATES NAD 27 NME Y=661168.8 N X=668852.1 E LAT.=32.816434° N LONG.=103.783718° W BOTTOM HOLE LOCATION Y=661487.0 N X=668490.2 E DETAIL 3983.7' 3990.1' 600' SURF. 3981.6' 3989.1' GRID AZ. = 311°19'12" HORZ. DIST. = 482.0' SEE DETAIL B.H. 1650' 1290' 1650' 1330'	OPERATOR CERTIFICATION I 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>[Signature]</i> 9/15/2008 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 AUGUST 28 2008 Date Surveyed REV 109/10/08 JC Signature & Seal of Professional Surveyor <i>[Signature]</i> Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239
---	---

SECTION 20, TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CO. RD. L-126
 (MALJAMAR RD.), AND CO. RD. L126 (CONOCO
 RD.), GO WEST ON CONOCO RD. APPROX. 1.3
 MILES. THIS LOCATION IS APPROX. 10 FEET NORTH
 OF LEASE ROAD.



PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (505) 393-3117

COG OPERATING, LLC

GC FEDERAL #24 WELL
 LOCATED 1330 FEET FROM THE SOUTH LINE
 AND 1290 FEET FROM THE EAST LINE OF SECTION 20,
 TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO.

Survey Date: 8/28/08	Sheet 1 of 1 Sheets
W.O. Number: 08.11.1235	Dr By: AR
Date: 9/04/08	Disk: 08111235
	Rev 1: N/A
	Scale: 1"=100'

Offset Wells to GC Federal 24

API#	Operator	Lease	Well#	County	Legal	Last Prod. Field Name	Reservoir Name	Total Depth	Well Status
30-025-08048	CONOCOPHILLIPS COMPANY	MITCHELL B	015	LEA	S:20, T:17S, R:32E	May 2008 MALJAMAR	PADDOCK	0	Active
30-025-08050	CONOCOPHILLIPS COMPANY	MCA UNIT	257	LEA	S:20, T:17S, R:32E	Dec 1978 MALJAMAR	GRAYBURG-SAN ANDRES	5,500	Temporarily Abandoned
30-025-08050	CONOCOPHILLIPS COMPANY	MCA UNIT	257	LEA	S:20, T:17S, R:32E	Dec 1974 MALJAMAR GRAYBURG SA REP(ABOLISHED)		5,500	Temporarily Abandoned
30-025-08051	CONOCOPHILLIPS COMPANY	MCA UNIT	331	LEA	S:20, T:17S, R:32E	May 2008 MALJAMAR	GRAYBURG-SAN ANDRES	5,370	Injection Well
30-025-08052	CONOCOPHILLIPS COMPANY	MCA UNIT	253	LEA	S:20, T:17S, R:32E	Dec 1976 MALJAMAR GRAYBURG SA REP(ABOLISHED)		5,350	Temporarily Abandoned
30-025-08052	CONOCOPHILLIPS COMPANY	MCA UNIT	253	LEA	S:20, T:17S, R:32E	Dec 1992 MALJAMAR	GRAYBURG-SAN ANDRES	5,350	Temporarily Abandoned
30-025-08053	CONOCO, INC.	MCA UNIT	303	LEA	S:20, T:17S, R:32E	MALJAMAR	GRAYBURG-SAN ANDRES	13,965	Injection Well
30-025-08053	CONOCO, INC.	MCA UNIT	303	LEA	S:20, T:17S, R:32E	MALJAMAR GRAYBURG SA REP(ABOLISHED)		13,965	Injection Well
30-025-08054	CONOCOPHILLIPS COMPANY	MCA UNIT	048	LEA	S:20, T:17S, R:32E	Dec 2004 MALJAMAR	GRAYBURG-SAN ANDRES		Injection Well
30-025-08054	CONOCOPHILLIPS COMPANY	MCA UNIT	048	LEA	S:20, T:17S, R:32E	MALJAMAR GRAYBURG SA REP(ABOLISHED)			Injection Well
30-025-08055	CONOCO, INC.	MITCHELL A	004	LEA	S:20, T:17S, R:32E	Apr 1991 MALJAMAR	GRAYBURG-SAN ANDRES	4,129	Temporarily Abandoned
30-025-08055	CONOCOPHILLIPS COMPANY	MITCHELL A	004	LEA	S:20, T:17S, R:32E	Dec 1976 MALJAMAR GRAYBURG SA REP(ABOLISHED)		4,129	Temporarily Abandoned
30-025-08056	CONOCO, INC.	MCA UNIT	049	LEA	S:20, T:17S, R:32E	Apr 1991 MALJAMAR	GRAYBURG-SAN ANDRES	0	Pumping
30-025-08056	CONOCO, INC.	MCA UNIT	049	LEA	S:20, T:17S, R:32E	Dec 1976 MALJAMAR GRAYBURG SA REP(ABOLISHED)		0	Pumping
30-025-08057	CONOCO, INC.	MCA UNIT	050	LEA	S:20, T:17S,	Feb 1967 MALJAMAR	GRAYBURG-SAN ANDRES		Temporarily Abandoned

30-025-08058	CONOCOPHILLIPS COMPANY	MCA UNIT	051 LEA	R:32E S:20, T:17S, R:32E	Feb 1998	MALJAMAR	GRAYBURG-SAN ANDRES	0	Temporarily Abandoned
30-025-08060	CONOCOPHILLIPS COMPANY	MCA UNIT	023 LEA	S:20, T:17S, R:32E	Dec 1976	MALJAMAR GRAYBURG SA REP(ABOLISHED)		Flowing	
30-025-08060	CONOCOPHILLIPS COMPANY	MCA UNIT	023 LEA	S:20, T:17S, R:32E	Dec 2002	MALJAMAR	GRAYBURG-SAN ANDRES	Flowing	
30-025-08061	CONOCOPHILLIPS COMPANY	MCA UNIT	024 LEA	S:20, T:17S, R:32E		MALJAMAR GRAYBURG SA REP(ABOLISHED)		0	Injection Well
30-025-08061	CONOCOPHILLIPS COMPANY	MCA UNIT	024 LEA	S:20, T:17S, R:32E		MALJAMAR	GRAYBURG-SAN ANDRES	0	Injection Well
30-025-08062	CONOCOPHILLIPS COMPANY	MCA UNIT	066 LEA	S:20, T:17S, R:32E	Dec 1976	MALJAMAR GRAYBURG SA REP(ABOLISHED)		0	Pumping
30-025-08062	CONOCOPHILLIPS COMPANY	MCA UNIT	066 LEA	S:20, T:17S, R:32E	May 2008	MALJAMAR	GRAYBURG-SAN ANDRES	0	Pumping
30-025-08063	CONOCOPHILLIPS COMPANY	MCA UNIT	094 LEA	S:20, T:17S, R:32E		MALJAMAR GRAYBURG SA REP(ABOLISHED)		0	Injection Well
30-025-08063	CONOCOPHILLIPS COMPANY	MCA UNIT	094 LEA	S:20, T:17S, R:32E	May 2008	MALJAMAR	GRAYBURG-SAN ANDRES	0	Injection Well
30-025-08064	CONOCO, INC.	MCA UNIT	065 LEA	S:20, T:17S, R:32E		MALJAMAR	GRAYBURG-SAN ANDRES	0	Injection Well
30-025-08064	CONOCO, INC.	MCA UNIT	065 LEA	S:20, T:17S, R:32E		MALJAMAR GRAYBURG SA REP(ABOLISHED)		0	Injection Well
30-025-08065	CONOCOPHILLIPS COMPANY	MCA UNIT	095 LEA	S:20, T:17S, R:32E	May 2008	MALJAMAR	GRAYBURG-SAN ANDRES	0	Active
30-025-08065	CONOCOPHILLIPS COMPANY	MCA UNIT	095 LEA	S:20, T:17S, R:32E	Dec 1976	MALJAMAR GRAYBURG SA REP(ABOLISHED)		0	Active
30-025-08066	CONOCO, INC.	MCA UNIT	063 LEA	S:20, T:17S, R:32E	Jul 1991	MALJAMAR	GRAYBURG-SAN ANDRES	4,027	Temporarily Abandoned
30-025-08066	CONOCO, INC.	MCA UNIT	063 LEA	S:20, T:17S, R:32E	Dec 1976	MALJAMAR GRAYBURG SA REP(ABOLISHED)		4,027	Temporarily Abandoned
30-025-08068	CONOCO, INC.	MCA UNIT	062 LEA	S:20, T:17S, R:32E		MALJAMAR	GRAYBURG-SAN ANDRES	0	Temporarily Abandoned

30-025-08068	CONOCO, INC.	MCA UNIT	062	LEA	S:20, T:17S, R:32E	Dec 1973	MALJAMAR GRAYBURG SA REP(ABOLISHED)	0	Temporarily Abandoned
30-025-08069	CONOCO, INC.	MCA UNIT	098	LEA	S:20, T:17S, R:32E	Jun 1993	MALJAMAR GRAYBURG-SAN ANDRES	4,013	Temporarily Abandoned
30-025-08069	CONOCO, INC.	MCA UNIT	098	LEA	S:20, T:17S, R:32E	Dec 1976	MALJAMAR GRAYBURG SA REP(ABOLISHED)	4,013	Temporarily Abandoned
30-025-12755	CONOCOPHILLIPS COMPANY	MCA UNIT	096	LEA	S:20, T:17S, R:32E	May 2008	MALJAMAR GRAYBURG-SAN ANDRES	4,048	Active
30-025-12755	CONOCOPHILLIPS COMPANY	MCA UNIT	096	LEA	S:20, T:17S, R:32E	Dec 1976	MALJAMAR GRAYBURG SA REP(ABOLISHED)	4,048	Active
30-025-12771	CONOCOPHILLIPS COMPANY	MCA UNIT	061	LEA	S:20, T:17S, R:32E	Apr 1974	MALJAMAR GRAYBURG-SAN ANDRES	4,024	Injection Well
30-025-12772	CONOCOPHILLIPS COMPANY	MCA UNIT	064	LEA	S:20, T:17S, R:32E	Jan 2000	MALJAMAR GRAYBURG-SAN ANDRES		Plugged and Abandoned
30-025-20231	CONOCO, INC.	MCA UNIT	258	LEA	S:20, T:17S, R:32E	Jun 1995	MALJAMAR GRAYBURG-SAN ANDRES	5,445	Pumping
30-025-23509	CONOCO, INC.	MCA UNIT	256	LEA	S:20, T:17S, R:32E	Dec 1970	MALJAMAR GRAYBURG-SAN ANDRES	3,650	Injection Well
30-025-23686	CONOCOPHILLIPS COMPANY	MCA UNIT	265	LEA	S:20, T:17S, R:32E	May 2008	MALJAMAR GRAYBURG-SAN ANDRES	0	Pumping
30-025-23687	CONOCOPHILLIPS COMPANY	MCA UNIT	266	LEA	S:20, T:17S, R:32E	May 2008	MALJAMAR GRAYBURG-SAN ANDRES	0	Active
30-025-23706	CONOCOPHILLIPS COMPANY	MCA UNIT	269	LEA	S:20, T:17S, R:32E	May 2008	MALJAMAR GRAYBURG-SAN ANDRES	0	Pumping
30-025-23715	CONOCOPHILLIPS COMPANY	MCA UNIT	271	LEA	S:20, T:17S, R:32E	May 2008	MALJAMAR GRAYBURG-SAN ANDRES	4,121	Pumping
30-025-23807	CONOCOPHILLIPS COMPANY	MCA UNIT	287	LEA	S:20, T:17S, R:32E	May 2008	MALJAMAR GRAYBURG-SAN ANDRES	4,120	Active
30-025-29956	CONOCOPHILLIPS COMPANY	MCA UNIT	372	LEA	S:20, T:17S, R:32E	May 2008	MALJAMAR GRAYBURG-SAN ANDRES	4,301	Pumping
30-025-29967	CONOCOPHILLIPS COMPANY	MCA UNIT	374	LEA	S:20, T:17S, R:32E	May 2008	MALJAMAR GRAYBURG-SAN ANDRES	4,200	Active

30-025-33584	CONOCOPHILLIPS COMPANY	ELVIS	001 LEA	T:17S, R:32E	May 2008	MALJAMAR	DEVONIAN, WEST	13,900	Pumping
30-025-33949	CONOCOPHILLIPS COMPANY	ELVIS	004 LEA	S:20, T:17S, R:32E	May 2008	BAISH	WOLFCAMP	12,100	Active
30-025-33949	CONOCOPHILLIPS COMPANY	ELVIS	004 LEA	S:20, T:17S, R:32E	May 2008	BAISH	CISCO	12,100	Active
30-025-34713	COG OPERATING LLC	BC FEDERAL	002 LEA	S:20, T:17S, R:32E	May 2008	MALJAMAR	PADDOCK	5,773	Pumping
30-025-34733	COG OPERATING LLC	BC FEDERAL	001 LEA	S:20, T:17S, R:32E	May 2008	MALJAMAR	PADDOCK	5,900	Pumping
30-025-34932	COG OPERATING LLC	BC FEDERAL	003 LEA	S:20, T:17S, R:32E	May 2008	MALJAMAR	PADDOCK	5,975	Pumping
30-025-36194	COG OPERATING LLC	BC FEDERAL	8 LEA	S:20, T:17S, R:32E	May 2008	MALJAMAR	PADDOCK	6,598	Active
30-025-27065	CONOCO, INC.	MCA UNIT	362 LEA	S:20, T:17S, R:32E		MALJAMAR	GRAYBURG-SAN ANDRES	4,150	Active
30-025-27063	CONOCO, INC.	MCA UNIT	360 LEA	S:20, T:17S, R:32E		MALJAMAR	GRAYBURG-SAN ANDRES		Active
30-025-27076	CONOCO, INC.	MCA UNIT	359 LEA	S:20, T:17S, R:32E		MALJAMAR	GRAYBURG-SAN ANDRES	4,150	Active
30-025-27064	CONOCO, INC.	MCA UNIT	361 LEA	S:20, T:17S, R:32E		MALJAMAR	GRAYBURG-SAN ANDRES	4,150	Active
30-025-27067	CONOCO, INC.	MCA UNIT	364 LEA	S:20, T:17S, R:32E		MALJAMAR	GRAYBURG-SAN ANDRES	4,270	Active
30-025-26606	CONOCO, INC.	MCA UNIT	358 LEA	S:20, T:17S, R:32E		MALJAMAR	GRAYBURG-SAN ANDRES	4,150	Unknown
30-025-27066	CONOCO, INC.	MCA UNIT	363 LEA	S:20, T:17S, R:32E		MALJAMAR	GRAYBURG-SAN ANDRES	4,250	Active
30-025-08055	CONOCO, INC.	MITCHELL A	004 LEA	S:20, T:17S, R:32E	Dec 1959	MALJAMAR	QUEEN (GAS)	4,129	Temporarily Abandoned
30-025-20231		MCA UNIT BATTERY 1	258 LEA	S:20, T:17S, R:32E	Dec 1976	MALJAMAR GRAYBURG SA REP (ABOLISHED)	GRAYBURG-SAN ANDRES	5,445	Pumping
30-025-20231		MCA UNIT	258 LEA	S:20, T:17S,	Dec 1993	MALJAMAR	GRAYBURG-SAN ANDRES	5,445	Pumping

30-025-23715	BATTERY 1	R:32E	Dec 1976	MALJAMAR GRAYBURG SA REP(ABOLISHED)	GRAYBURG-SAN ANDRES	4,121	Pumping
	MCA UNIT BATTERY 2	S:20, T:17S, R:32E					
30-025-23715	MCA UNIT BATTERY 2	S:20, T:17S, R:32E	Dec 1993	MALJAMAR	GRAYBURG-SAN ANDRES	4,121	Pumping
30-025-00000	MITCHELL A	S:20, T:17S, R:32E	Jun 1964	MALJAMAR	PADDOCK		Active
30-025-00000	MITCHELL A	S:20, T:17S, R:32E	Jun 1969	MALJAMAR	PADDOCK		Active
30-025-08049	CONTINENTAL OIL CO MCA UNIT BATTERY 1	S:20, T:17S, R:32E	Dec 1971	MALJAMAR	GRAYBURG-SAN ANDRES	5,349	Active
30-025-08051	MCA UNIT BATTERY 1	S:20, T:17S, R:32E		MALJAMAR GRAYBURG SA REP(ABOLISHED)	GRAYBURG-SAN ANDRES	5,370	Injection Well
30-025-08051	MCA UNIT BATTERY 1	S:20, T:17S, R:32E		MALJAMAR	GRAYBURG-SAN ANDRES	5,370	Injection Well
30-025-00000	MITCHELL A	S:20, T:17S, R:32E	Sep 1970	MALJAMAR	PADDOCK		Active
30-025-08059	MCA UNIT BATTERY 1	S:20, T:17S, R:32E	Feb 1967	MALJAMAR	GRAYBURG-SAN ANDRES		Active
30-025-08052	MCA UNIT BATTERY 1	S:20, T:17S, R:32E	Apr 1992	MALJAMAR	GRAYBURG-SAN ANDRES	5,350	Temporarily Abandoned
30-025-08052	MCA UNIT BATTERY 1	S:20, T:17S, R:32E	Aug 1976	MALJAMAR GRAYBURG SA REP(ABOLISHED)	GRAYBURG-SAN ANDRES	5,350	Temporarily Abandoned
30-025-00000	MITCHELL A	S:20, T:17S, R:32E	Jan 1969	MALJAMAR	PADDOCK		Active
30-025-08050	MCA UNIT BATTERY 1	S:20, T:17S, R:32E	Dec 1976	MALJAMAR GRAYBURG SA REP(ABOLISHED)	GRAYBURG-SAN ANDRES	5,500	Temporarily Abandoned
30-025-08050	MCA UNIT BATTERY 1	S:20, T:17S, R:32E	Jun 1986	MALJAMAR	GRAYBURG-SAN ANDRES	5,500	Temporarily Abandoned
30-025-00000	MITCHELL A	S:20, T:17S, R:32E	Apr 1970	MALJAMAR	PADDOCK		Active
30-025-27076	MCA UNIT BATTERY 2	S:20, T:17S, R:32E		MALJAMAR	GRAYBURG-SAN ANDRES	4,150	Active

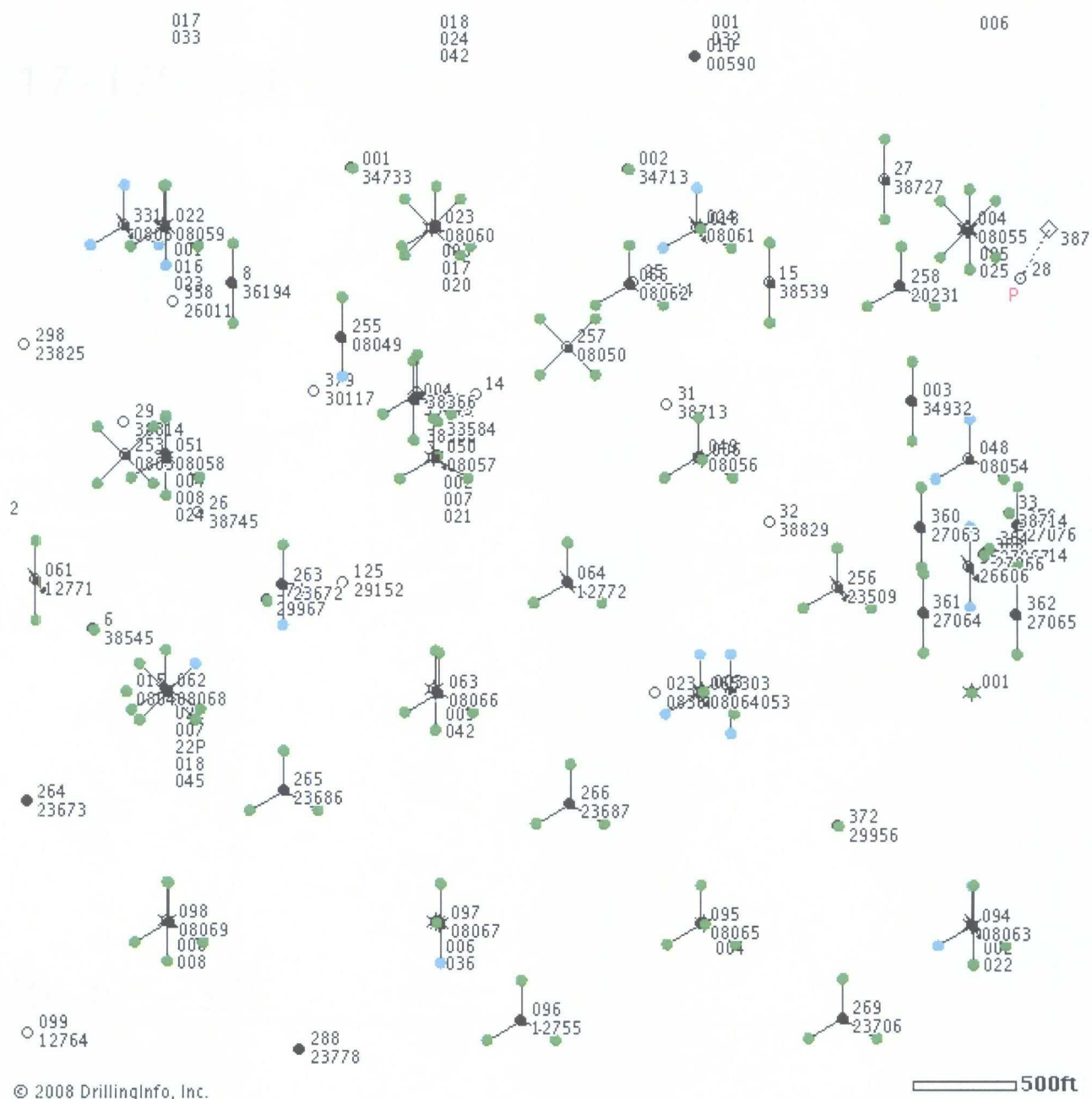
30-025-27063	MCA UNIT BATTERY 2	360 LEA	S:20, T:17S, R:32E	MALJAMAR	GRAYBURG-SAN ANDRES	Active
30-025-26606	MCA UNIT BATTERY 2	368 LEA	S:20, T:17S, R:32E	MALJAMAR	GRAYBURG-SAN ANDRES	4,150 Unknown
30-025-23509	MCA UNIT BATTERY 1	256 LEA	S:20, T:17S, R:32E	Dec 1976 MALJAMAR GRAYBURG SA REP(ABOLISHED)	GRAYBURG-SAN ANDRES	3,650 Injection Well
30-025-23509	MCA UNIT BATTERY 1	256 LEA	S:20, T:17S, R:32E	Oct 1990 MALJAMAR	GRAYBURG-SAN ANDRES	3,650 Injection Well
30-025-23807	MCA UNIT BATTERY 2	287 LEA	S:20, T:17S, R:32E	Dec 1993 MALJAMAR	GRAYBURG-SAN ANDRES	4,120 Active
30-025-23807	MCA UNIT BATTERY 2	287 LEA	S:20, T:17S, R:32E	Dec 1976 MALJAMAR GRAYBURG SA REP(ABOLISHED)	GRAYBURG-SAN ANDRES	4,120 Active
30-025-27065	MCA UNIT BATTERY 2	362 LEA	S:20, T:17S, R:32E	MALJAMAR	GRAYBURG-SAN ANDRES	4,150 Active
30-025-27064	MCA UNIT BATTERY 2	361 LEA	S:20, T:17S, R:32E	MALJAMAR	GRAYBURG-SAN ANDRES	4,150 Active
30-025-12772	MCA UNIT BATTERY 1	064 LEA	S:20, T:17S, R:32E	Dec 1976 MALJAMAR GRAYBURG SA REP(ABOLISHED)	GRAYBURG-SAN ANDRES	Plugged and Abandoned
30-025-12772	MCA UNIT BATTERY 1	064 LEA	S:20, T:17S, R:32E	Dec 1993 MALJAMAR	GRAYBURG-SAN ANDRES	Plugged and Abandoned
30-025-23687	MCA UNIT BATTERY 1	266 LEA	S:20, T:17S, R:32E	Dec 1993 MALJAMAR	GRAYBURG-SAN ANDRES	0 Active
30-025-23687	MCA UNIT BATTERY 1	266 LEA	S:20, T:17S, R:32E	Dec 1976 MALJAMAR GRAYBURG SA REP(ABOLISHED)	GRAYBURG-SAN ANDRES	0 Active
30-025-08068	MCA UNIT BATTERY 1	062 LEA	S:20, T:17S, R:32E	Feb 1967 MALJAMAR GRAYBURG SA REP(ABOLISHED)	GRAYBURG-SAN ANDRES	0 Temporarily Abandoned
30-025-08068	MCA UNIT BATTERY 1	062 LEA	S:20, T:17S, R:32E	Dec 1965 MALJAMAR	GRAYBURG-SAN ANDRES	0 Temporarily Abandoned
30-025-23686	MCA UNIT BATTERY 1	265 LEA	S:20, T:17S, R:32E	Dec 1993 MALJAMAR	GRAYBURG-SAN ANDRES	0 Pumping
30-025-23686	MCA UNIT BATTERY 1	265 LEA	S:20, T:17S, R:32E	Dec 1976 MALJAMAR GRAYBURG SA REP(ABOLISHED)	GRAYBURG-SAN ANDRES	0 Pumping

30-025-23672	MCA UNIT BATTERY 1	263	LEA	T-17S, R-32E	Jun 1986	MALJAMAR	GRAYBURG-SAN ANDRES	4,066	Active
30-025-08067	MCA UNIT BATTERY 1	097	LEA	S-20, T-17S, R-32E	Feb 1967	MALJAMAR	GRAYBURG-SAN ANDRES		Active
30-025-23706	MCA UNIT BATTERY 2	269	LEA	S-20, T-17S, R-32E	Dec 1993	MALJAMAR	GRAYBURG-SAN ANDRES	0	Pumping
30-025-23706	MCA UNIT BATTERY 2	269	LEA	S-20, T-17S, R-32E	Dec 1976	MALJAMAR GRAYBURG SA REP(ABOLISHED)	GRAYBURG-SAN ANDRES	0	Pumping
30-025-08059	CONOCO, INC.	022	LEA	S-20, T-17S, R-32E		MALJAMAR	GRAYBURG-SAN ANDRES		Active
30-025-08067	CONOCO, INC.	097	LEA	S-20, T-17S, R-32E		MALJAMAR	GRAYBURG-SAN ANDRES		Active
30-025-08060	CONTINENTAL OIL COMPANY	023	LEA	S-20, T-17S, R-32E	Dec 1971	MALJAMAR REPRESS			Flowing
30-025-08061	CONTINENTAL OIL COMPANY	024	LEA	S-20, T-17S, R-32E	Feb 1967	MALJAMAR REPRESS		0	Injection Well
30-025-08054	CONTINENTAL OIL COMPANY	048	LEA	S-20, T-17S, R-32E	Feb 1967	MALJAMAR REPRESS			Injection Well
30-025-08056	CONTINENTAL OIL COMPANY	049	LEA	S-20, T-17S, R-32E	Dec 1971	MALJAMAR REPRESS		0	Pumping
30-025-08058	CONTINENTAL OIL COMPANY	051	LEA	S-20, T-17S, R-32E	Dec 1971	MALJAMAR REPRESS		0	Temporarily Abandoned
30-025-08066	CONTINENTAL OIL COMPANY	063	LEA	S-20, T-17S, R-32E	Dec 1971	MALJAMAR REPRESS		4,027	Temporarily Abandoned
30-025-08064	CONTINENTAL OL COMPANY	065	LEA	S-20, T-17S, R-32E	Feb 1967	MALJAMAR REPRESS		0	Injection Well
30-025-08063	CONTINENTAL OIL COMPANY	094	LEA	S-20, T-17S, R-32E	Feb 1967	MALJAMAR REPRESS		0	Injection Well
30-025-08065	CONTINENTAL OIL COMPANY	095	LEA	S-20, T-17S, R-32E	Dec 1971	MALJAMAR REPRESS		0	Active
30-025-08069	CONTINENTAL OIL COMPANY	098	LEA	S-20, T-17S, R-32E	Dec 1971	MALJAMAR REPRESS		4,013	Temporarily Abandoned
30-025-08062	CONTINENTAL OIL	066	LEA	S-20, T-17S,	Dec 1971	MALJAMAR REPRESS		0	Pumping

COMPANY	BATTERY 2	R:32E	GRAYBURG-SAN ANDRES	Active				
30-025-00000	BUFFALO	MITCHELL	022 LEA	S:20, T:17S, R:32E	Dec 1962	MALJAMAR		Active
30-025-00000	BUFFALO- CONT'D.	MITCHELL A	006 LEA	S:20, T:17S, R:32E	Dec 1962	MALJAMAR REPRESSURING POOL		Active
30-025-00000	BUFFALO-COT'D.	MITCHELL A	007 LEA	S:20, T:17S, R:32E	Dec 1962	MALJAMAR REPRESSURING POOL		Active
30-025-00000	BUFFALO- CONT'D.	MITCHELL A	008 LEA	S:20, T:17S, R:32E	Dec 1962	MALJAMAR REPRESSURING		Active
30-025-00000	BUFFALO- CONT'D.	MITCHELL A	016 LEA	S:20, T:17S, R:32E	Dec 1962	MALJAMAR REPRESSURING POOL		Active
30-025-00000	BUFFALO- CONT'D.	MITCHELL A	017 LEA	S:20, T:17S, R:32E	Dec 1962	MALJAMAR REPRESSURING POOL		Active
30-025-00000	BUFFALO- CONT'D.	MITCHELL A	018 LEA	S:20, T:17S, R:32E	Dec 1962	MALJAMAR REPRESSURING POOL		Active
30-025-00000	BUFFALO- CONT'D.	MITCHELL B	001 LEA	S:20, T:17S, R:32E	Dec 1962	MALJAMAR REPRESSURING POOL		Active
30-025-00000	BUFFALO- CONT'D.	MITCHELL B	002 LEA	S:20, T:17S, R:32E	Dec 1962	MALJAMAR REPRESURING POOL		Active
30-025-00000	BUFFALO- CONT'D.	MITCHELL B	003 LEA	S:20, T:17S, R:32E	Dec 1962	MALJAMAR REPRESSURING POOL		Active
30-025-00000	BUFFALO- CONT'D.	MITCHELL B	004 LEA	S:20, T:17S, R:32E	Dec 1962	MALJAMAR REPRESSURING POOL		Active
30-025-00000	BUFFALO- CONT'D.	MITCHELL B	005 LEA	S:20, T:17S, R:32E	Dec 1965	MALJAMAR REPRESSURING POOL		Active
30-025-00000	BUFFALO- CONT'D.	MITCHELL B	006 LEA	S:20, T:17S, R:32E	Dec 1962	MALJAMAR REPRESSURING POOL		Active
30-025-00000	BUFFALO- CONT'D.	MITCHELL B	007 LEA	S:20, T:17S, R:32E	Dec 1962	MALJAMAR REPRESSURING POOL		Active
30-025-00000	BUFFALO- CONT'D.	MITCHELL B	008 LEA	S:20, T:17S, R:32E	Dec 1961	MALJAMAR REPRESSSSURING POOL		Active
30-025-00000	BUFFALO OIL CO.	MITCHELL B	022 LEA	S:20, T:17S, R:32E	Dec 1952	MALJAMAR PADDOCK POOL		Active

30-025-34932	BUFFALO OIL COMPANY	MITCHELL A	003 LEA	S:20, T:17S, R:32E	Dec 1962	MALJAMAR REPRESSURING	5,975	Pumping
30-025-08055	BUFFALO OIL COMPANY	MITCHELL A	004 LEA	S:20, T:17S, R:32E	Dec 1957	MALJAMAR REPRESSURING	4,129	Temporarily Abandoned
30-025-00000	BUFFALO OIL COMPANY	MITCHELL	22P LEA	S:20, T:17S, R:32E	Dec 1957	MALJAMAR PADDOCK POOL		Active
30-025-00000	CONTINENTAL OIL CO.	MCA UNIT BATTERY 1	025 LEA	S:20, T:17S, R:32E	Dec 1971	MALJAMAR GRAYBURG S A REPRESS		Active
30-025-12771	CONTINENTAL OIL CO	MCA UNIT BATTERY 1	061 LEA	S:20, T:17S, R:32E	Dec 1971	MALJAMAR GRAYBURG SA	4,024	Injection Well
30-025-12755	CONTINENTAL OIL CO	MCA UNIT BATTERY 1	096 LEA	S:20, T:17S, R:32E	Dec 1971	MALJAMAR GRAYBURG SA REPRES	4,048	Active
30-025-00000	CONTINENTAL OIL CO	MITCHELL A FED	020 LEA	S:20, T:17S, R:32E	Dec 1960	NALJ PADDOCK DEPTH RANGE		Active
30-025-00000	CONTINENTAL OIL CO	MITCHELL A FED	021 LEA	S:20, T:17S, R:32E	Dec 1962	MALJ PADDOCK DEPTH RANGE		Active
30-025-00000	CONTINENTAL OIL CO HOBBS DIST	WM MITCHELL B FED BATTERY 2	008 LEA	S:20, T:17S, R:32E	Dec 1962	MALJAMAR GRAYBURG		Active
30-025-00000	CONTINENTAL OIL CO HOBBS DIST	WM MITCHELL B FED	042 LEA	S:20, T:17S, R:32E	Aug 1961	MALJAMAR GRAYBURG		Unknown
30-025-00000	CONTINENTAL OIL CO HOBBS DIST	WM MITCHELL A FEDERAL	020 LEA	S:20, T:17S, R:32E	Dec 1962	MALJAMAR PADDOCK		Active
30-025-00000	CONTINENTAL OIL CO HOBBS DIST	WM MITCHELL A FEDERAL	023 LEA	S:20, T:17S, R:32E	Dec 1962	MALJAMAR PADDOCK		Active
30-025-00000	CONTINENTAL OIL CO HOBBS DIST	WM MITCHELL A FEDERAL	024 LEA	S:20, T:17S, R:32E	Dec 1962	MALJAMAR PADDOCK		Active
30-025-38366	COG OPERATING LLC	BC FEDERAL	14 LEA	S:20, T:17S, R:32E		MALJAMAR	PADDOCK	6,985 Active Permit
30-025-38366	COG OPERATING LLC	BC FEDERAL	14 LEA	S:20, T:17S, R:32E	Jun 2008	WILDCAT G-02 S173219A, YESO		6,985 Active Permit
30-025-38545	COG OPERATING LLC	GC FEDERAL	6 LEA	S:20, T:17S, R:32E		MALJAMAR	PADDOCK	7,100 Active Permit

30-025-38539	COG OPERATING LLC	BC FEDERAL	15 LEA	S:20, T:17S, R:32E	May 2008	MALJAMAR	PADDOCK	7,015	Active Permit
30-025-38366	COG OPERATING LLC	BC FEDERAL	14 LEA	S:20, T:17S, R:32E		WILDCAT YESO <97633>		6,985	Active Permit
30-025-08049	HANAGAN PETROLEUM CORP	PRE- ONGARD WELL	255 LEA	S:20, T:17S, R:32E		MALJAMAR	GRAYBURG-SAN ANDRES	5,349	Active
30-025-23672	HANAGAN PETROLEUM CORP	PRE- ONGARD WELL	263 LEA	S:20, T:17S, R:32E		MALJAMAR	GRAYBURG-SAN ANDRES	4,066	Active
30-025-36194	MACK ENERGY CORPORATION	BC FEDERAL	8 LEA	S:20, T:17S, R:32E		MALJAMAR;PADDOCK		6,598	Active
30-025-38539	COG OPERATING LLC	BC FEDERAL	15 LEA	S:20, T:17S, R:32E		MALJAMAR;PADDOCK		7,015	Active Permit
30-025-38727	COG OPERATING LLC	BC FEDERAL	27 LEA	S:20, T:17S, R:32E		MALJAMAR;YESO, WEST		7,035	Active Permit
30-025-38714	COG OPERATING LLC	BC FEDERAL	33 LEA	S:20, T:17S, R:32E		MALJAMAR (PADDOCK)	PADDOCK	7,200	Active Permit
30-025-38727	COG OPERATING LLC	BC FEDERAL	27 LEA	S:20, T:17S, R:32E		MALJAMAR (PADDOCK)	PADDOCK	7,035	Active Permit



GC Federal 24

Brooks, David K., EMNRD

From: Brooks, David K., EMNRD
Sent: Wednesday, October 29, 2008 1:48 PM
To: 'Robyn Odom'
Subject: GC Federal #24; NSL Application

Dear Ms. Odom

This again looks to be a directional well with a standard bottom hole location. And, again, the point of penetration of the Yeso is not identified.

I can assume that this location will be non-standard because the bottom hole location is in the exact corner of the drilling window. However, I cannot determine for certain if it is non-standard until I am advised of the footages of the point of penetration.

Sincerely
David K. Brooks
Legal Examiner
505-476-3450

10/29/2008

Brooks, David K., EMNRD

From: Robyn Odom [rodom@conchoresources.com]
Sent: Wednesday, October 29, 2008 2:46 PM
To: Brooks, David K., EMNRD
Cc: Phyllis Edwards
Subject: RE: GC Federal #24; NSL Application

Mr. Brooks,

I am very sorry for the mistakes. Attached is a corrected plat with Penetration Point. Please let me know if you have any questions.

Thank you,

Robyn Odom
X4385

From: Brooks, David K., EMNRD [mailto:david.brooks@state.nm.us]
Sent: Wednesday, October 29, 2008 3:48 PM
To: Robyn Odom
Subject: GC Federal #24; NSL Application

Dear Ms. Odom

This again looks to be a directional well with a standard bottom hole location. And, again, the point of penetration of the Yeso is not identified.

I can assume that this location will be non-standard because the bottom hole location is in the exact corner of the drilling window. However, I cannot determine for certain if it is non-standard until I am advised of the footages of the point of penetration.

Sincerely
David K. Brooks
Legal Examiner
505-476-3450

This inbound email has been scanned by the MessageLabs Email Security System.

10/29/2008

Brooks, David K., EMNRD

From: Robyn Odom [rodom@conchoresources.com]
Sent: Wednesday, October 29, 2008 2:47 PM
To: Brooks, David K., EMNRD
Cc: Phyllis Edwards
Subject: RE: GC Federal #24; NSL Application
Attachments: G C Federal 24 NSL Plat.pdf

Mr. Brooks,

I am sorry I almost forgot to attach the corrected plat. Attached to this email is the corrected plat.

Thank you,

Robyn Odom
X4385

From: Robyn Odom
Sent: Wednesday, October 29, 2008 4:46 PM
To: 'Brooks, David K., EMNRD'
Cc: Phyllis Edwards
Subject: RE: GC Federal #24; NSL Application

Mr. Brooks,

I am very sorry for the mistakes. Attached is a corrected plat with Penetration Point. Please let me know if you have any questions.

Thank you,

Robyn Odom
X4385

From: Brooks, David K., EMNRD [mailto:david.brooks@state.nm.us]
Sent: Wednesday, October 29, 2008 3:48 PM
To: Robyn Odom
Subject: GC Federal #24; NSL Application

Dear Ms. Odom

This again looks to be a directional well with a standard bottom hole location. And, again, the point of penetration of the Yeso is not identified.

I can assume that this location will be non-standard because the bottom hole location is in the exact corner of the drilling window. However, I cannot determine for certain if it is non-standard until I am advised of the footages of the point of penetration.

Sincerely
David K. Brooks
Legal Examiner
505-476-3450

This inbound email has been scanned by the MessageLabs Email Security System.

10/29/2008

State of New Mexico

DISTRICT I
1625 N FRENCH DR. HOBBY, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT II
1301 W GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION

Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
For Lease - 3 Copies

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-	Pool Code 44500	under. MALAJAMAR; YESO, WEST	Pool Name
Property Code 302498	Property Name GC FEDERAL		Well Number 24
OGRID No. 229137	Operator Name COG OPERATING, LLC		Elevation 3988'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	20	17-S	32-E		1330	SOUTH	1290	EAST	LEA

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
J	20	17-S	32-E		1650	SOUTH	1650	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40			

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=661163.8 N X=668852.1 E LAT.=32.816434° N LONG.=103.783718° 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> 9/15/2008 Signature Date Robyn Odom Printed Name	
PENETRATION POINT BOTTOM HOLE LOCATION Y=661487.0 N X=668490.2 E		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. ALD J. EIDSON AUGUST 28, 2008 Date Surveyed REV 08/10/08 JC Signature & Seal of Professional Surveyor <i>Ronald J. Eidson</i> 08/11/2008 Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239	