

ABOVE THIS LINE FOR DIVISION USE ONLY

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



COG
Harper At #3

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
- [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.

PHYLLIS A. EDWARDS
Print or Type Name

Phyllis A. Edwards
Signature

REGULATORY ANALYST
Title

9/27/07
Date

432-685-4340

pedwards@conchoresources.com
e-mail Address

RECEIVED
2007 OCT 12 AM 9 26

**Harper State #13
Eddy County, NM
API #: 30-015 35657**

COG proposes to drill a SE/4 & SW/4 of S/2, 40 acre spacing
Loco Hills; Glorieta-Yeso Oil Well
TD of approximately 6200'

Non-Standard Location:

375' FSL & 1500' FWL Sec 16, T17S, R30E, Unit N

COG staked and submitted the APD for the legal location of
330 FSL & 1650 FWL, Sec 16, T17S, R30E, Unit N.

After COG staked and permitted the legal location (API #30-015-35657),
DCP made plans to lay a pipeline in the area.

COG would like to drill well vertically instead of directional to cut drilling cost.

This well is to be completed in the Loco Hills; Glorieta-Yeso (96718) formation.
We won't know the exact perms until we drill & log it, but it will be very similar to
the Juniper State #4 which was drilled in April 2006 and is located 430' FSL &
990' FWL, Unit M in Sec 16, T17S, R30E.

The Juniper State #4 completion broke the Yeso up into 3 perf/stimulation
intervals. At this time, we assume the Harper State #13 will/should be very
similar.

Juniper State #4 has open perms from: 4265.5' – 5604.5' overall, but broken up
into 3 separate intervals, with 3 separate fracs:

1st interval: 5385' – 5604.5'
acidized w/ 3000 gals,
frac w/ 95,000 gals gel, & 90,400# 16/30 sand, & 8000# LiteProp

2nd interval: 5153' – 5273'
acidized w/ 2000 gals,
frac w/ 36,000 gals gel, & 9,000# 16/30 sand, & 8000# LiteProp

3rd interval: 4265.5' – 4650'
acidized w/ 1575 gals,
frac w/ 95,340 gals gel, & 89,940# 16/30 sand, & 8026# LiteProp

Attachment 1

Permit & plat

Attachment 2

Map & legend of offset wells.

Attachment 3

Updated land plat showing that COG Operating LLC owns offset acreage.
All interests are the same.

The acreage we are encroaching is the SW/4 & the SW/4
of Section 16

COG owns the S/2 of the SW/4 of Section 16

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

State of New Mexico
Energy, Minerals and Natural Resources

Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address COG OPERATING LLC 550 W TEXAS MIDLAND, TX 79701		2. OGRID Number 229137
		3. API Number 30-015-35657
4. Property Code 302502	5. Property Name HARPER STATE	6. Well No. 013

7. Surface Location

UL - Lot	Section	Township	Range	Lot Ldn	Feet From	N/S Line	Feet From	E/W Line	County
N	16	17S	30E	N	330	S	1650	W	EDDY

8. Pool Information

LOCO HILLS; GLORIETA-YESO	96718
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Additional Well Information

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3666
14. Multiple N	15. Proposed Depth 6200	16. Formation Blinebry	17. Contractor	18. Spud Date 6/20/2007
Depth to Ground water 150		Distance from nearest fresh water well > 1000		Distance to nearest surface water > 1000
Pit: Liner: Synthetic ☒ 12 mils thick Clay: ☐ Pit Volume: 3000 bbls Drilling Method: Closed Loop System ☐ Fresh Water ☐ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☒				

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	425	450	0
Int1	12.25	8.625	24	1225	850	0
Prod	7.875	5.5	17	6200	1200	0

Casing/Cement Program: Additional Comments

COG proposes to drill a 17 1/2 hole to 425', run 13 3/8 casing and cement. Drill a 12 1/4 hole to 1225', run 8 5/8 casing and cement. Drill a 7 7/8 hole to 6200' test Blinebry formation, run 5 1/2 casing and cement.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	

I hereby certify that the information given above is true and complete to the 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 ☐.

OIL CONSERVATION DIVISION

Printed Name: Electronically filed by Diane Kuykendall

Approved By: Bryan Arant

Title: Regulatory Analyst

Title: Geologist

Email Address: dkuykendall@conchoresources.com

Approved Date: 6/7/2007

Expiration Date: 6/7/2008

Date: 6/16/2007

Phone: 432-685-4372

Conditions of Approval Attached

District I

1625 N. French Dr., Hobbs, NM 88240
 Phone:(505) 393-6161 Fax:(505) 393-0720

District II

1301 W. Grand Ave., Artesia, NM 88210
 Phone:(505) 748-1283 Fax:(505) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico**Energy, Minerals and Natural Resources**

Form C-102
 Permit 54877

Oil Conservation Division**1220 S. St Francis Dr.****Santa Fe, NM 87505****WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-015-35657	2. Pool Code 96718	3. Pool Name LOCO HILLS; GLORIETA-YESO
4. Property Code 302502	5. Property Name HARPER STATE	6. Well No. 013
7. OGRD No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3666

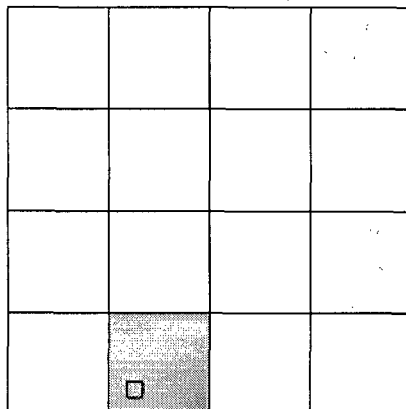
10. Surface Location

UL - Lot N	Section 16	Township 17S	Range 30E	Lot Idn	Feet From 330	N/S Line S	Feet From 1650	E/W Line W	County EDDY
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11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
12. Dedicated Acres 40.00	13. Joint or Infill		14. Consolidation Code		15. 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

**OPERATOR CERTIFICATION**

I hereby certify that the information contained 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(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

E-Signed By: Diane Kuykendall

Title: Regulatory Analyst

Date: 6/6/2007

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.

Surveyed By: Ronald Eidson

Date of Survey: 5/29/2007

Certificate Number: 3239

Permit Comments

Operator: COG OPERATING LLC , 229137

Well: HARPER STATE #013

API: 30-015-35657

Created By	Comment	Comment Date
JSHERRELL	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	6/6/2007

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137

Well: HARPER STATE #013

APL: 30-015-35657

OCD Reviewer	Condition
BArrant	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines
BArrant	As noted, operator to drill surface hole with fresh water mud.

State of New Mexico

DISTRICT I

1625 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.

Santa Fe, New Mexico 87505

Revised October 12, 2005
Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-35657	Pool Code 96718	Pool Name LOCO HILLS; GLORIETA-YESO
Property Code 302502	Property Name HARPER STATE	Well Number 13
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3665'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	16	17-S	30-E		375	SOUTH	1500	WEST	EDDY

Bottom Hole Location If Different From Surface

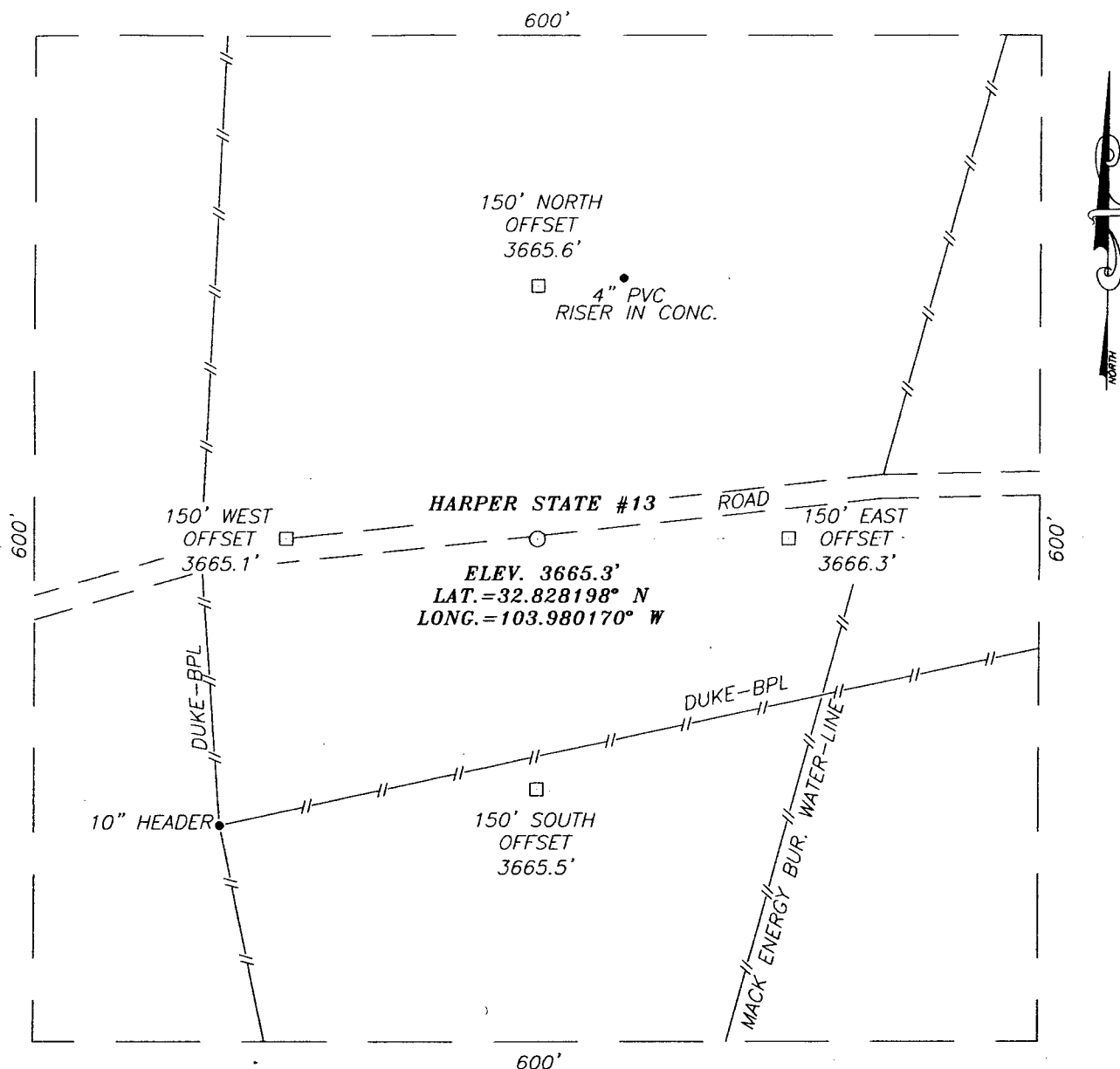
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	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

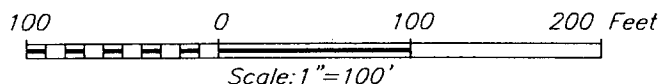
GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=665190.9 N X=608483.6 E LAT.=32.828198° N LONG.=103.980170° W 1500' 375'	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working 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>Phyllis A. Edwards</i> 9-28-07 Signature Date Phyllis A. Edwards-Regulatory Printed Name Analyst
	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. SEPTEMBER 14, 2007 Date Surveyed REV: 9/28/07 AR Signature & Seal of Professional Surveyor <i>Ronald J. Eidson</i> 3239 07.11.0966 Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239

SECTION 16, TOWNSHIP 17 SOUTH, RANGE 30 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

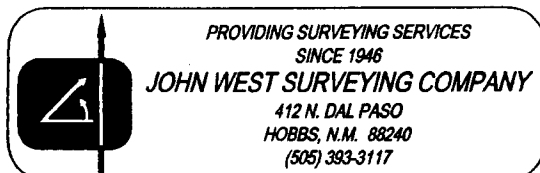
FROM THE INTERSECTION OF U.S. HWY. #82
 (LOVINGTON HWY.) AND CO. RD. #219 (GOAT
 ROPERS), GO NORTH ON CO. RD. #219 APPROX.
 0.7 MILES. TURN LEFT AND GO WEST APPROX.
 400 FEET TO THIS LOCATION.

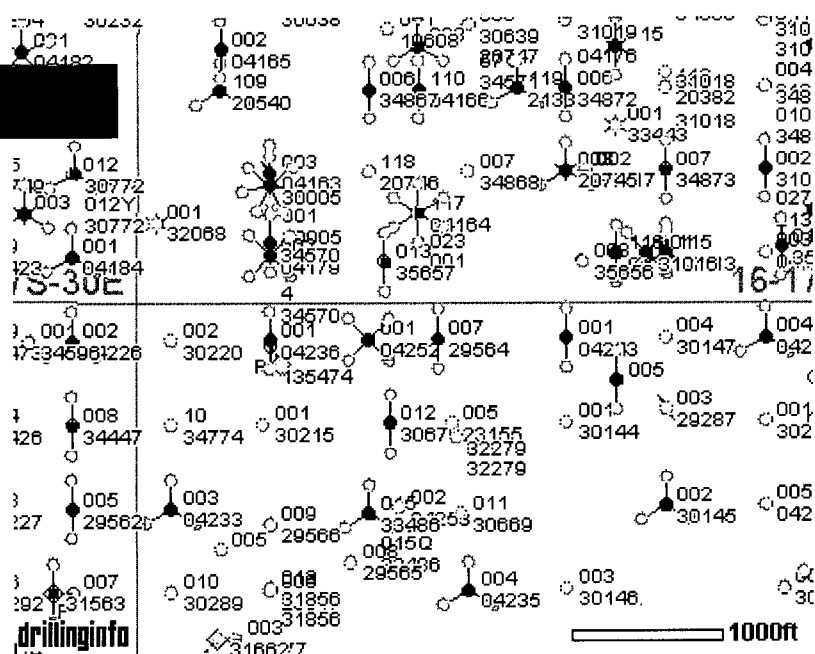


COG OPERATING, LLC

HARPER STATE #13 WELL
 LOCATED 375 FEET FROM THE SOUTH LINE
 AND 1500 FEET FROM THE WEST LINE OF SECTION 16,
 TOWNSHIP 17 SOUTH, RANGE 30 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.

Survey Date: 9/11/07		Sheet 1 of 1 Sheets	
W.O. Number: 07.11.0962		Dr By: AR	Rev 1:N/A
Date: 9/18/07	Disk:	07110962	Scale: 1"=100'





Harper State 13 Offset Wells

API#	Company	Lease Name	Well#	County	Legal	Field	Depth	First Prod	Prac IP BO/D	Prac IP MCF/D
30-015-30677	COG OPERATING LLC	BRIGHAM H	003	EDDY	S:21, T:17S, R:30E	LOCO HILLS	5034	Mar 2000	162.50	140.03
30-015-31662	COG OPERATING LLC	BRIGHAM H	005	EDDY	S:21, T:17S, R:30E	LOCO HILLS	0	Jun 2001	249.90	451.13
30-015-31563	COG OPERATING LLC	W D MCINTYRE C	007	EDDY	S:20, T:17S, R:30E	LOCO HILLS	5037	May 2001	36.93	69.97
30-015-31563	COG OPERATING LLC	W D MCINTYRE C	007	EDDY	S:20, T:17S, R:30E	GRAYBURG JACKSON	5037	Nov 2005	28.77	110.77
30-015-30289	COG OPERATING LLC	BERRY A FEDERAL	010	EDDY	S:21, T:17S, R:30E	LOCO HILLS	4950	Jun 1999	119.23	166.00
30-015-32519	MACK ENERGY CORP	BERRY A FEDERAL	015	EDDY	S:21, T:17S, R:30E		5000			
30-015-04235	COG OPERATING LLC	BERRY A FEDERAL	004	EDDY	S:21, T:17S, R:30E	GRAYBURG JACKSON	0	Jan 1979	1.46	14.14
30-015-04235	MACK ENERGY CORP	BERRY A FEDERAL	004	EDDY	S:21, T:17S, R:30E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)	0	Jan 1972	1.93	5.28
30-015-23517	MACK ENERGY CORP	BERRY A FEDERAL	006	EDDY	S:21, T:17S, R:30E	GRAYBURG JACKSON	0	Jan 1993	3.07	1.21
30-015-29565	COG OPERATING LLC	BERRY A FEDERAL	008	EDDY	S:21, T:17S, R:30E	LOCO HILLS	4940	Jan 1998	125.86	106.68
30-015-29566	COG OPERATING LLC	BERRY A FEDERAL	009	EDDY	S:21, T:17S, R:30E	LOCO HILLS	4920	Aug 1998	125.17	182.07
30-015-30146	MARBOB ENERGY CORP	LOCO FEDERAL	003	EDDY	S:21, T:17S, R:30E	LOCO HILLS	4900	May 1998	174.83	147.70
30-015-30258	MARBOB ENERGY CORP	E L FEDERAL	004	EDDY	S:21, T:17S, R:30E	LOCO HILLS	5000	May 1999	71.47	139.00
30-015-31856	COG OPERATING LLC	BERRY A FEDERAL	013	EDDY	S:21, T:17S, R:30E	LOCO HILLS	6996	Sep 2001	24.10	14.94
30-015-04235	PETROLEUM CORPORATION OF TEXAS	BERRY A	004	EDDY	S:21, T:17S, R:30E	LOCO HILLS	0	Mar 1962	38.13	67.47
30-015-04226	COG OPERATING LLC	W D MCINTYRE C	002	EDDY	S:20, T:17S, R:30E	LOCO HILLS	4858	Aug 1998	133.80	200.33
30-015-04226	MACK ENERGY CORP	W D MCINTYRE C	002	EDDY	S:20, T:17S, R:30E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)	4858	Jan 1959	1.93	4.11
30-015-04226	MACK ENERGY CORP	W D MCINTYRE C	002	EDDY	S:20, T:17S, R:30E	GRAYBURG JACKSON	4858	Jan 1947	9.07	0.00
30-015-04233	MACK ENERGY CORP	BERRY A FEDERAL	003	EDDY	S:21, T:17S, R:30E	GRAYBURG JACKSON	4966	Jan 1947	17.57	0.00
30-015-04233	MACK ENERGY CORP	BERRY A FEDERAL	003	EDDY	S:21, T:17S, R:30E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)	4966	Jan 1959	4.29	0.00
30-015-04233	COG OPERATING LLC	BERRY A FEDERAL	003	EDDY	S:21, T:17S, R:30E	LOCO HILLS	4966	Jan 1954	5.25	
30-015-04253	MACK ENERGY CORP	BERRY A FEDERAL	002	EDDY	S:21, T:17S, R:30E	GRAYBURG JACKSON		Jan 1947	14.25	0.00
30-015-30145	MARBOB ENERGY CORP	LOCO FEDERAL	002	EDDY	S:21, T:17S, R:30E	LOCO HILLS	4968	Jul 1999	112.16	66.55

30-015-30215	MARBOB ENERGY CORP	TYLER FEDERAL	001	EDDY	S:21, T:17S, R:30E	LOCO HILLS	4885	Jun 1998	103.52	127.35
30-015-30220	MARBOB ENERGY CORP	TYLER FEDERAL	002	EDDY	S:21, T:17S, R:30E	LOCO HILLS	4836	Jul 1999	52.32	55.48
30-015-30255	MARBOB ENERGY CORP	E L FEDERAL	001	EDDY	S:21, T:17S, R:30E	LOCO HILLS	4966	May 1999	60.47	46.67
30-015-30669	COG OPERATING LLC	BERRY A FEDERAL	011	EDDY	S:21, T:17S, R:30E	LOCO HILLS	4922	Nov 1999	139.03	146.84
30-015-30670	COG OPERATING LLC	BERRY A FEDERAL	012	EDDY	S:21, T:17S, R:30E	LOCO HILLS	4840	Jan 2000	76.24	97.86
30-015-30145	MARBOB ENERGY CORP	MCINTYRE G	002	EDDY	S:21, T:17S, R:30E	GRAYBURG JACKSON	4968	Jan 1979	4.46	297.46
30-015-30145	MARBOB ENERGY CORP	MCINTYRE G	002	EDDY	S:21, T:17S, R:30E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)	4968	Jun 1972	45.13	45.65
30-015-33486	COG OPERATING LLC	BERRY A FEDERAL	015Q	EDDY	S:21, T:17S, R:30E	LOCO HILLS		Dec 2005	68.87	219.55
30-015-00000	WOOLLEY, R. R.	ARNOLD B	005	EDDY	S:21, T:17S, R:30E	PREMIER POOL		Jan 1947	11.54	0.00
30-015-33486	COG OPERATING LLC	BERRY A FEDERAL	015Q	EDDY	S:21, T:17S, R:30E	GRAYBURG JACKSON		Dec 2005	38.74	123.39
30-015-35021	COG OPERATING LLC	W D MCINTYRE E	012	EDDY	S:21, T:17S, R:30E	GRAYBURG JACKSON	4500			
30-015-30670	COG OPERATING LLC	BERRY A FEDERAL	012	EDDY	S:21, T:17S, R:30E	GRAYBURG JACKSON	4840	Jun 2006	39.29	126.39
30-015-29287	SOUTHLAND ROYALTIES INC	MCINTYRE G FEDERAL	003	EDDY	S:21, T:17S, R:30E					
30-015-04238			005	EDDY	S:21, T:17S, R:30E					
30-015-04163	MACK ENERGY CORP	JUNIPER STATE	003	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON		Jan 1979	0.00	75.93
30-015-04163	MACK ENERGY CORP	JUNIPER STATE	003	EDDY	S:16, T:17S, R:30E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		Jan 1973	0.00	80.71
30-015-04166	MACK ENERGY CORP	ETZ STATE UNIT	110	EDDY	S:16, T:17S, R:30E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)	0	Jan 1973	2.00	0.00
30-015-04166	COG OPERATING LLC	ETZ STATE UNIT	110	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON	0	Jan 1979	2.54	0.00
30-015-04172	COG OPERATING LLC	ETZ STATE UNIT	116	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON	0	Jan 1979	3.39	0.00
30-015-04172	MACK ENERGY CORP	ETZ STATE UNIT	116	EDDY	S:16, T:17S, R:30E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)	0	Jan 1973	3.57	0.00
30-015-04179	MACK ENERGY CORP	JUNIPER STATE	002	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON	0	Feb 1963	4.81	28.48
30-015-04184	MACK ENERGY CORP	MCINTYRE DK FEDERAL	001	EDDY	S:17, T:17S, R:30E	GRAYBURG JACKSON	4796	Jan 1979	4.64	25.00
30-015-04184	MACK ENERGY CORP	MCINTYRE DK FEDERAL	001	EDDY	S:17, T:17S, R:30E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)	4796	Jan 1973	29.18	0.00
30-015-04184	COG OPERATING LLC	MCINTYRE DK FEDERAL	001	EDDY	S:17, T:17S, R:30E	LOCO HILLS	4796	Dec 1997	68.00	82.35
30-015-04236	MACK ENERGY	W D	001	EDDY	S:21, T:17S, R:30E	GRAYBURG JKSN SR-Q-	0	Jan	4.79	10.46

	CORP	MCINTYRE C				G-SA(DO NOT USE)		1959		
30-015-04236	COG OPERATING LLC	W D MCINTYRE C	001	EDDY	S:21, T:17S, R:30E	GRAYBURG JACKSON	0	Jan 1947	9.07	0.00
30-015-04243	SOUTHLAND ROYALTIES INC	MCINTYRE G FEDERAL	001	EDDY	S:21, T:17S, R:30E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)	0	Jan 1959	0.93	0.00
30-015-04243	SOUTHLAND ROYALTIES INC	MCINTYRE G FEDERAL	001	EDDY	S:21, T:17S, R:30E	GRAYBURG JACKSON	0	Jan 1947	5.82	0.00
30-015-04252	COG OPERATING LLC	BERRY A FEDERAL	001	EDDY	S:21, T:17S, R:30E	LOCO HILLS	4886	Aug 2002	54.03	140.63
30-015-04252	MACK ENERGY CORP	BERRY A FEDERAL	001	EDDY	S:21, T:17S, R:30E	GRAYBURG JACKSON	4886	Jan 1947	13.18	0.00
30-015-04252	MACK ENERGY CORP	BERRY A FEDERAL	001	EDDY	S:21, T:17S, R:30E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)	4886	Jan 1959	4.29	0.00
30-015-23155	COG OPERATING LLC	BERRY A FEDERAL	005	EDDY	S:21, T:17S, R:30E	GRAYBURG JACKSON	0	Jan 1993	5.32	2.07
30-015-29562	COG OPERATING LLC	W D MCINTYRE C	005	EDDY	S:20, T:17S, R:30E	LOCO HILLS	4792	Dec 1997	107.16	95.77
30-015-29562	MACK ENERGY CORP	W D MCINTYRE C	005	EDDY	S:20, T:17S, R:30E	FREN	4792	Nov 1997	0.00	0.00
30-015-30005	COG OPERATING LLC	JUNIPER STATE	001	EDDY	S:16, T:17S, R:30E	LOCO HILLS	4770	Jan 1958	0.00	7.86
30-015-30144	MARBOB ENERGY CORP	LOCO FEDERAL	001	EDDY	S:21, T:17S, R:30E	LOCO HILLS	4900	May 1998	188.63	149.53
30-015-32279	COG OPERATING LLC	BERRY A FEDERAL	014	EDDY	S:21, T:17S, R:30E	LOCO HILLS	4900	Jun 2002	142.45	313.97
30-015-30678	MACK ENERGY CORP	MCINTYRE DK FEDERAL	012	EDDY	S:17, T:17S, R:30E	LOCO HILLS				
30-015-04179	MACK ENERGY CORP	MCCULLOUGH STATE	002	EDDY	S:16, T:17S, R:30E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)	0	Jan 1967	13.64	71.11
30-015-04179	MACK ENERGY CORP	MCCULLOUGH STATE	002	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON	0	Jan 1965	6.11	52.75
30-015-00000	WOOLEY.R.R.	ARNOLD	005	EDDY	S:21, T:17S, R:30E	PREMIER		Jan 1953	2.79	0.00
30-015-30005	COG OPERATING LLC	ST. MCCALL	001	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON	4770	Feb 1950	13.58	0.00
30-015-30005	COLLIER R D	STATE	001	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON	4770	Jan 1958	7.86	0.00
30-015-04179	COLLIER R D	STATE	002	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON	0	Jun 1962	4.10	38.58
30-015-30005	SOLT,WALTER	ST. McCOLLOUGH	001	EDDY	S:16, T:17S, R:30E	GRAYBURG-JACKSON POOL	4770	Jan 1947	7.54	0.00
30-015-04252	FLINT PROD. CO.	BERRY A	001	EDDY	S:21, T:17S, R:30E	GRAYBURG-JACKSON	4886	Jan 1948	10.69	0.00
30-015-00000	WOOLLEY, R. R.	ARNOLD B	005	EDDY	S:21, T:17S, R:30E	GRAYBURG JACKSON		Jan 1957	6.07	0.00
30-015-34447	MACK ENERGY CORP	W D MCINTYRE C	008	EDDY	S:20, T:17S, R:30E	GRAYBURG JACKSON	5000			
30-015-34596	GRUY PETROLEUM MANAGEMENT CO.	LOCO HILLS 20 FED COM	001	EDDY	S:20, T:17S, R:30E	LOCO HILLS	12000			

30-015-34447	COG OPERATING LLC	W D MCINTYRE C	008	EDDY	S:20, T:17S, R:30E	LOCO HILLS	5000	Jan 2006	95.43	223.54
30-015-34774	COG OPERATING LLC	W D MCINTYRE C	10	EDDY	S:21, T:17S, R:30E	GRAYBURG JACKSON	4300	May 2006	100.47	93.33
30-015-35474	COG OPERATING LLC	W D MCINTYRE C	11	EDDY	S:21, T:17S, R:30E	GRAYBURG JACKSON	4300			
30-015-21334	ROGER C HANKS	PRE-ONGARD WELL	027	EDDY	S:16, T:17S, R:30E					
30-015-30639	MACK ENERGY CORP	HARPER STATE	008	EDDY	S:16, T:17S, R:30E					
30-015-04182	SOUTHLAND ROYALTIES INC	GOV MCINTYRE 1 FEDERAL	001	EDDY	S:17, T:17S, R:30E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)	0	Jan 1967	15.68	0.00
30-015-04182	SOUTHLAND ROYALTIES INC	GOV MCINTYRE 1 FEDERAL	001	EDDY	S:17, T:17S, R:30E	GRAYBURG JACKSON	0	Feb 1947	0.00	0.00
30-015-10608	MACK ENERGY CORP	ETZ STATE	011	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON	0	Dec 1965	0.00	0.00
30-015-20382	COG OPERATING LLC	ETZ STATE UNIT	112	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON	0	Jan 1993	5.07	8.04
30-015-20540	COG OPERATING LLC	ETZ STATE UNIT	109	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON	0	Jan 1993	4.75	6.68
30-015-20746	COG OPERATING LLC	ETZ STATE UNIT	118	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON	0	Jan 1993	5.07	8.07
30-015-21213	MACK ENERGY CORP	ETZ STATE UNIT	115	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON	0	Oct 1998	0.00	0.00
30-015-21333	COG OPERATING LLC	ETZ STATE UNIT	119	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON	0	Jan 1993	2.00	0.00
30-015-29564	COG OPERATING LLC	BERRY A FEDERAL	007	EDDY	S:21, T:17S, R:30E	LOCO HILLS	4910	Sep 1997	42.16	52.35
30-015-30147	MARBOB ENERGY CORP	LOCO FEDERAL	004	EDDY	S:21, T:17S, R:30E	LOCO HILLS	4927	Dec 1999	82.16	95.10
30-015-30772	COG OPERATING LLC	MCINTYRE DK FEDERAL	012Y	EDDY	S:17, T:17S, R:30E	LOCO HILLS	4750	Sep 1999	37.61	45.39
30-015-31014	COG OPERATING LLC	HARPER STATE	002	EDDY	S:16, T:17S, R:30E	LOCO HILLS	4880	May 2000	82.13	87.63
30-015-31016	COG OPERATING LLC	IMPERIAL STATE	001	EDDY	S:16, T:17S, R:30E	LOCO HILLS	4930	Jan 1951	3.21	0.00
30-015-31017	COG OPERATING LLC	IMPERIAL STATE	002	EDDY	S:16, T:17S, R:30E	LOCO HILLS	4985	Jul 2000	55.77	87.55
30-015-31018	COG OPERATING LLC	IMPERIAL STATE	003	EDDY	S:16, T:17S, R:30E	LOCO HILLS	4945	Oct 2000	28.57	56.33
30-015-31019	COG OPERATING LLC	IMPERIAL STATE	004	EDDY	S:16, T:17S, R:30E	LOCO HILLS	4885	Nov 2000	26.68	69.13
30-015-31349	COG OPERATING LLC	HARPER STATE	004Y	EDDY	S:16, T:17S, R:30E	LOCO HILLS	4950	Oct 2000	46.60	62.60
30-015-20745	DEVON ENERGY PRODUCTION COMPANY, LP	ETZ STATE UNIT (TRACT 4)	003	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON	0			
30-015-32068	LOCO HILLS WATER DISPOSAL	BRINE WATER	001	EDDY	S:16, T:17S, R:30E	BSW		Jan 1960	5.86	0.00
30-015-31015	MACK ENERGY CORP	HARPER STATE	004	EDDY	S:16, T:17S, R:30E	LOCO HILLS	0			
30-015-00000		ETZ J STATE	015	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON		Apr 1971	16.29	0.00
						GRAYBURG				

30-015-00000		ETZ J STATE	015	EDDY	S:16, T:17S, R:30E	JKSN SR-Q-G-SA(DO NOT USE)		Apr 1971	16.29	0.00
30-015-21333	COG OPERATING LLC	ETZ STATE	119	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON	0	Dec 1992	2.16	0.00
30-015-21333	COG OPERATING LLC	ETZ STATE	119	EDDY	S:16, T:17S, R:30E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)	0	Sep 1976	0.13	0.00
30-015-20540	COG OPERATING LLC	ETZ A STATE	109	EDDY	S:16, T:17S, R:30E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)	0	Jan 1972	15.97	51.86
30-015-20540	COG OPERATING LLC	ETZ A STATE	109	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON	0	Jan 1979	7.46	23.07
30-015-04165	BRIGHT AND SHIFF	ETZ A STATE	002	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON		Jan 1950	0.00	0.00
30-015-00000		ETZ STATE	023	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON		Jan 1979	3.39	8.93
30-015-00000		ETZ STATE	023	EDDY	S:16, T:17S, R:30E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		Dec 1972	53.06	82.55
30-015-04164		ETZ STATE UNIT	117	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON				
30-015-20745	DEVON ENERGY PRODUCTION COMPANY, LP	ETZ J STATE	003	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON	0	Jan 1979	3.39	4.46
30-015-20745	DEVON ENERGY PRODUCTION COMPANY, LP	ETZ J STATE	003	EDDY	S:16, T:17S, R:30E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)	0	Dec 1972	50.32	96.84
30-015-21213	MACK ENERGY CORP	ETZ J STATE	115	EDDY	S:16, T:17S, R:30E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)	0	Jan 1975	1.82	0.00
30-015-21213	MACK ENERGY CORP	ETZ J STATE	115	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON	0	Jan 1979	0.82	0.00
30-015-04167		ETZ STATE UNIT (TRACT 3)	003	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON				
30-015-04237	REPOLLO OIL CO.	W D MCINTYRE E	004	EDDY	S:21, T:17S, R:30E	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		Jan 1959	0.71	1.07
30-015-04237	REPOLLO OIL CO.	W D MCINTYRE E	004	EDDY	S:21, T:17S, R:30E	GRAYBURG JACKSON		Jan 1947	5.54	0.00
30-015-33443	MACK ENERGY CORP	PECAN STATE COM	001	EDDY	S:16, T:17S, R:30E	WILDCAT	11400			
30-015-00000	SINCLAIR OIL AND GAS CO.	MCINTYRE D FED	003	EDDY	S:17, T:17S, R:30E	GRAYBURG JACKSON QUEEN S A CTD		Jan 1947	3.75	0.00
30-015-31016	YANCEY-HARRIS COMP.	STATE J	001	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON	4930	Jan 1947	6.54	0.00
30-015-00000	YANCEY-HARRIS	ST. HUMBLE	001	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON		Jan 1947	7.96	0.00
30-015-00000	YANCEY-HARRIS	ST. HUMBLE	003	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON		Jan 1947	3.89	0.00
30-015-31016	HARLAN PRODUCTION	ETZ ST	001	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON	4930	Jan 1959	2.64	0.00

	CO								
30-015-00000	HARLAN PRODUCTION CO	ETZ ST B	001	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON	Jan 1951	3.07	0.00
30-015-00000	HARLAN PRODUCTION CO	ETZ ST B	003	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON	Jan 1951	1.86	0.00
30-015-00000	YANCEY-HARRIS CO.	ETZ. STATE	001	EDDY	S:16, T:17S, R:30E	GRAYBURG-JACKSON POOL	Jan 1952	4.86	0.00
30-015-04165	YANCY-HARRIS	ST.HANSEN	002	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON OIL	Jan 1947	2.71	0.00
30-015-30005	SOLT, WALTER	ST. MCCALL	001	EDDY	S:16, T:17S, R:30E	grayburg jackson pool 4770	Jan 1953	8.61	0.00
30-015-04182	GEN AMERICAN OIL CO OF TEXAS	MCINTYRE F FED	001	EDDY	S:17, T:17S, R:30E	GRAYBURG JACKSON QUEEN S A 0	Jan 1958	1.64	0.00
30-015-04182	PREMIER OIL CO.	MCINTYRE F	001	EDDY	S:17, T:17S, R:30E	GRAYBURG-JACKSON 0	Jan 1948	0.00	0.00
30-015-00000	REPOLLO OIL CO.	MCINTYRE D	003	EDDY	S:17, T:17S, R:30E	GRAYBURG-JACKSON	Jan 1948	5.52	0.00
30-015-04237	REPOLLO OIL CO.	MCINTYRE D	004	EDDY	S:21, T:17S, R:30E	GRAYBURG-JACKSON	Jan 1948	5.79	0.00
30-015-04182	GENERAL AMERICAN OIL COMPANY OF TEXAS	MCINTYRE F	001	EDDY	S:17, T:17S, R:30E	GRAYBURG JACKSON 0	Jan 1953	3.29	0.00
30-015-00000	TEXAS AMERICAN OIL CORPORATION	ETZ STATE	003	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON QUEEN SA	Jan 1965	1.07	0.00
30-015-31016	TEXAS AMERICAN OIL CORPORATION	ETZ J STATE	001	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON QUEEN SA 4930	Jan 1964		
30-015-00000	ATLANTIC RICHFIELD COMPANY	W D MCINTYRE D TRACT 1	003	EDDY	S:17, T:17S, R:30E	GRAYBURG JACKSON QUEEN SA	Jan 1969	0.93	19.89
30-015-34570	COG OPERATING LLC	JUNIPER STATE	4	EDDY	S:16, T:17S, R:30E	LOCO HILLS 5925	Apr 2006	42.26	63.65
30-015-34570	COG OPERATING LLC	JUNIPER STATE	4	EDDY	S:16, T:17S, R:30E	LOCO HILLS; PADDOCK 5925			
30-015-30772	MACK ENERGY CORPORTATION	MCINTYRE DK FEDERAL	012Y	EDDY	S:17, T:17S, R:30E	LOCO HILLS PADDOCK 4750			
30-015-34867	COG OPERATING LLC	HARPER STATE	006	EDDY	S:16, T:17S, R:30E	LOCO HILLS 5990	May 2007		
30-015-34868	COG OPERATING LLC	HARPER STATE	007	EDDY	S:16, T:17S, R:30E	LOCO HILLS 5980	Sep 2006	69.90	101.68
30-015-34870	COG OPERATING LLC	HARPER STATE	010	EDDY	S:16, T:17S, R:30E	LOCO HILLS 6000			
30-015-34872	COG OPERATING LLC	IMPERIAL STATE	006	EDDY	S:16, T:17S, R:30E	LOCO HILLS 5955	Feb 2007	57.35	98.16
30-015-34873	COG OPERATING LLC	IMPERIAL STATE	007	EDDY	S:16, T:17S, R:30E	LOCO HILLS 6055	Oct 2006	146.50	234.93
30-015-30005	COG OPERATING LLC	JUNIPER STATE	001	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON 4770	Feb 2006	72.68	142.26
30-015-30772	COG OPERATING LLC	MCINTYRE DK FEDERAL	012Y	EDDY	S:17, T:17S, R:30E	GRAYBURG JACKSON 4750	Apr 2006	35.42	101.23
30-015-29564	COG	BERRY A	007	EDDY	S:21, T:17S, R:30E	GRAYBURG 4910	May	43.00	153.00

	OPERATING LLC	FEDERAL				JACKSON	2006		
30-015-30005	R. D. COLLIER	MCCULLOUGH STATE	001	EDDY	S:16, T:17S, R:30E		4770	Dec 1965	
30-015-00000	HARLAN PRODUCTION CO.	ETZ FEDERAL	001	EDDY	S:16, T:17S, R:30E	GRAYBURG JACKSON QUEEN GBR S A		Jan 1965	4.68 0.00
30-015-34872	COG OPERATING LLC	IMPERIAL STATE	006	EDDY	S:16, T:17S, R:30E	LOCO HILLS; GLORIETS YESO 96718	5955		
30-015-34873	COG OPERATING LLC	IMPERIAL STATE	007	EDDY	S:16, T:17S, R:30E	LOCO HILLS; GLORIETA YESO 96718	6055		
30-015-35658	COG OPERATING LLC	HARPER STATE	012	EDDY	S:16, T:17S, R:30E	LOCO HILLS	6200		
30-015-35657	COG OPERATING LLC	HARPER STATE	013	EDDY	S:16, T:17S, R:30E	LOCO HILLS	6200		
30-015-35656	COG OPERATING LLC	IMPERIAL STATE	008	EDDY	S:16, T:17S, R:30E	LOCO HILLS	6200		
30-015-35658	COG OPERATING LLC	HARPER STATE	012	EDDY	S:16, T:17S, R:30E	COLLINS RANCH	6200		
30-015-34867	COG OPERATING LLC	HARPER STATE	006	EDDY	S:16, T:17S, R:30E	LOCO HILLS; GLORIETA YESO 96718	5990		

