

DATE IN 6/20/08	SUSPENSE	ENGINEER Brooks	LOGGED IN 6/20/08	TYPE NSL	APP NO. PKVRO817251391
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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
 Electra Federal #34

ADMINISTRATIVE APPLICATION CHECKLIST

Edly

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 INTERESTS ARE THE SAME.

[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

6/18/08
 Date

pedwards@conchoresources.com
 e-mail Address

RECEIVED
 JUN 20 AM 11 41
 NSL 5876

**Electra Federal #34
Eddy County, NM**

NE/4 NE/4
NSL-5876

COG is requesting to **vertically** drill a North ½, NE/4 40 acre spacing
Loco Hills; Glorieta Yeso oil well
TD of approximately 6000'

Non-standard Location:
100' FNL & 330' FEL Sec 10, T17S, R30E, Unit A

This well had to be staked at a non-standard location at the
Bureau of Land Management's request to preserve sand dunes.

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 Electra Federal #10 which was recently drilled in January 2007 and is located
765' FSL 2310' FWL, Section 10, T17S, R30E, Unit N.

The Electra Federal #10 completion divided the Yeso up into 3 perf/stimulation
intervals. At this time, we believe the Electra Federal #34 should be very similar.

Electra Federal #10 has perms from: 4920' – 5848.5' overall, with the following
breakdown:

1st interval: 5567' – 5848.5',
acidized w/ 2500 gals,
frac'd w/ 95,103 gals gel, 8321# LiteProp, & 85,970# 16/30 sand.

2nd interval: 5192.5' – 5475.5',
acidized w/ 2500 gals,
frac'd w/ 97,107 gals gel, 8215# LiteProp, & 87,106# 16/30 sand.

3rd interval: 4920' – 5107',
acidized w/ 2500 gals,
frac'd w/ 94,099 gals gel, 8448# LiteProp, & 87,526# 16/30 sand.

Attachment 1

Plat showing Electra Federal #34 topography

Attachment 2

Map & legend of offset wells.

Attachment 3

Updated land plat showing that COG Operating LLC owns the N/2 of Section 10.
The acreage we are encroaching on is the SE/4 of the SE/4 of Section 3. Offset
acreage is owned by CBS Operating in Grayburg San Andres & shallower, and
Conoco Phillips in the Yeso. (copy of notice to Conoco is attached)

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

DISTRICT I

1625 N. FRENCH DR., BOBBS, NM 88240

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

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

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 30-015-	Pool Code 96718	Pool Name LOCO HILLS; GLORIETA YESO
Property Code 302483	Property Name ELECTRA FEDERAL	Well Number 34
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3725'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	10	17-S	30-E		100	NORTH	330	EAST	EDDY

Bottom Hole Location If Different From Surface

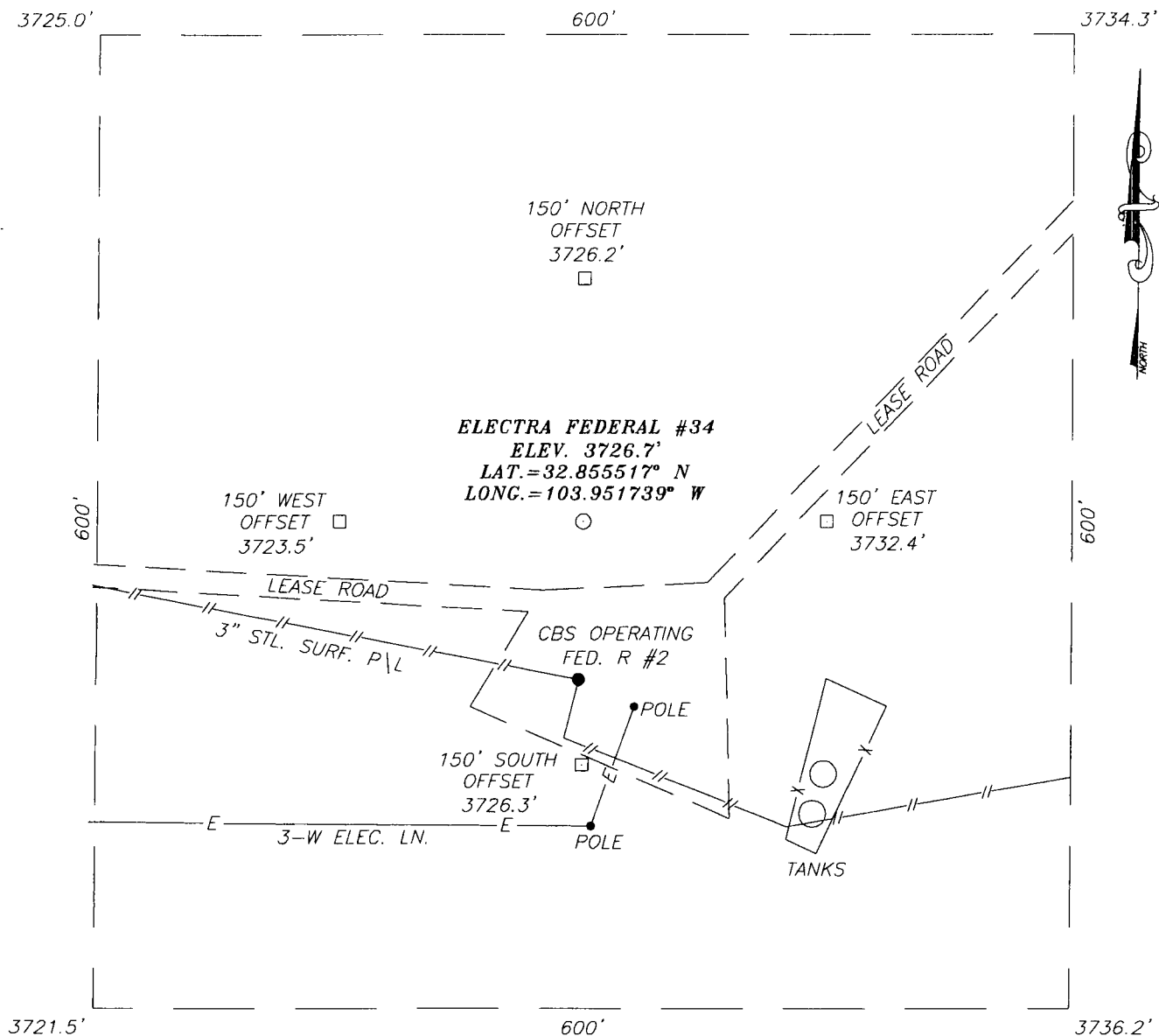
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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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

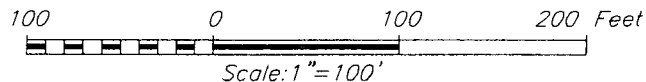
SEE DETAIL DETAIL GEODETIC COORDINATES NAD 27 NME Y=675290.2 N X=617180.7 E LAT.=32.855875° N LONG.=103.951739° W 3726.3' 3733.1' 3720.4' 3738.9'	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization 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> 6/17/08 Signature Date Phyllis A. Edwards Printed Name Regulatory 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. JUN 11 2008 Date Surveyed LA Signature & Seal of Professional Surveyor <i>Ronald E. Eidson</i> 6/17/08 08-11-0631 Certificate No. GARY EIDSON 12841 RONALD EIDSON 3239

SECTION 10, 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 AND
 CO. RD. #219 (GOAT ROPERS), GO NORTH
 APPROX. 2.5 MILES. TURN RIGHT AND GO EAST
 APPROX. 0.4 MILES. TURN LEFT AND GO NORTH
 APPROX. 0.3 MILES. VEER RIGHT AND GO EAST
 APPROX. 1.2 MILES. THIS LOCATION IS APPROX.
 100 FEET NORTH OF EXISTING WELL.



COG OPERATING, LLC

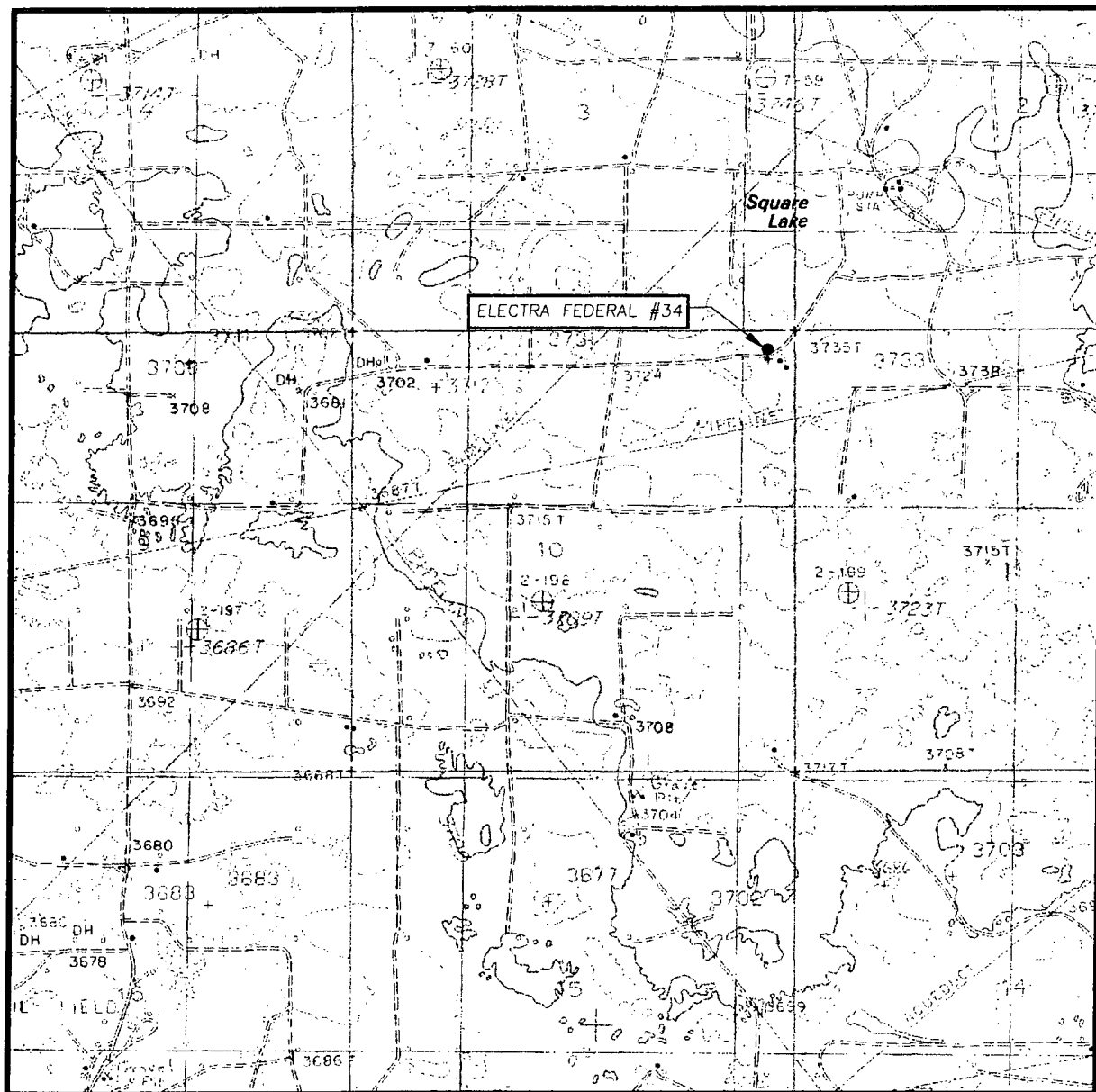
ELECTRA FEDERAL #34 WELL
 LOCATED 230 FEET FROM THE NORTH LINE
 AND 330 FEET FROM THE EAST LINE OF SECTION 10,
 TOWNSHIP 17 SOUTH, RANGE 30 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.

Survey Date: 5/30/08	Sheet 1 of 1 Sheets
W.O. Number: 08.11.0631	Dr By: LA
Date: 6/5/08	08110631
	Scale: 1"=100'



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

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
LOCO HILLS, N.M. - 10'

SEC. 10 TWP. 17-S RGE. 30-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 230' FNL & 330' FEL

ELEVATION 3727'

OPERATOR COG
OPERATING, LLC

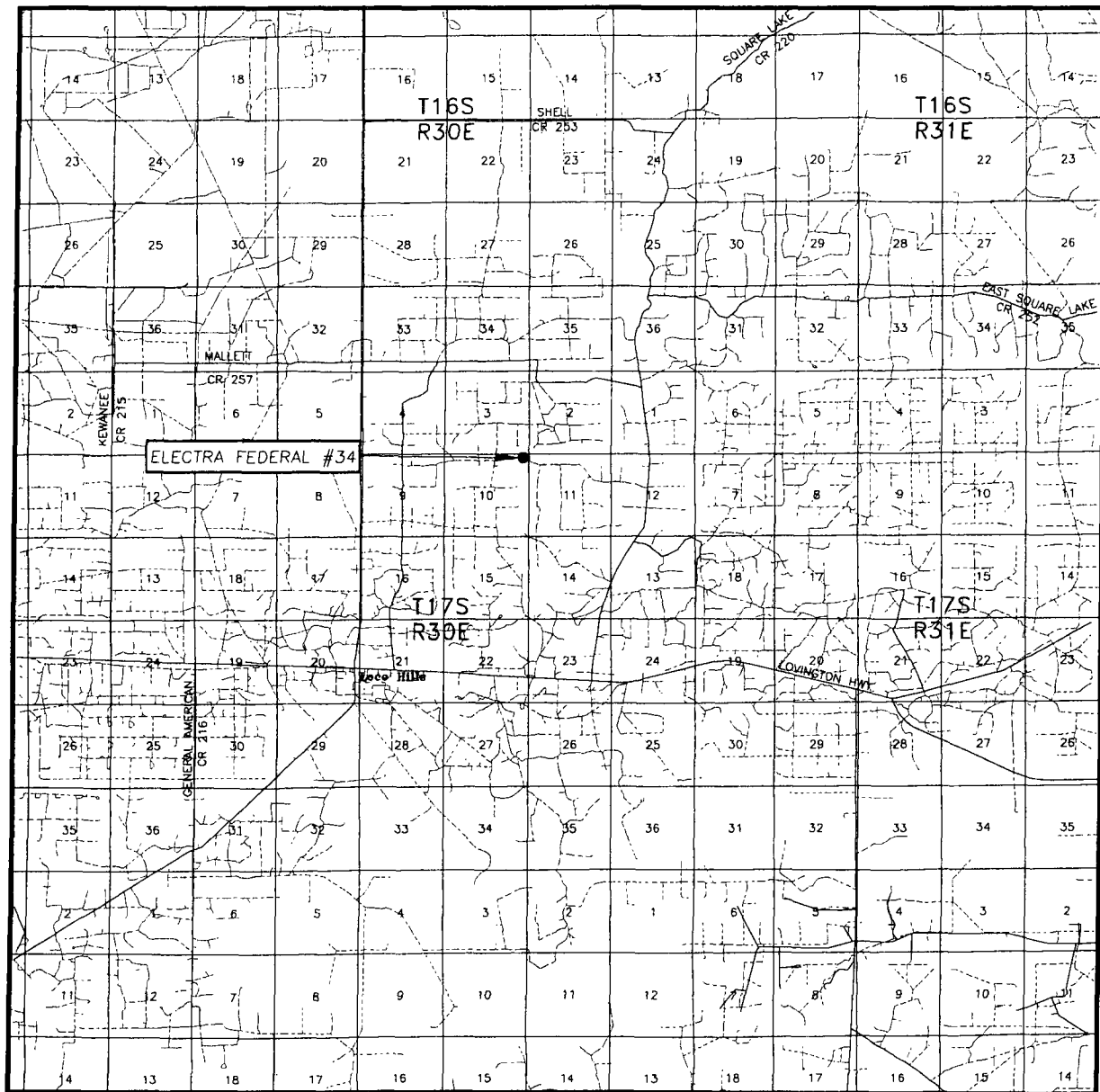
LEASE ELECTRA FEDERAL

U.S.G.S. TOPOGRAPHIC MAP
LOCO HILLS, N.M.



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

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 10 TWP. 17-S RGE. 30-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

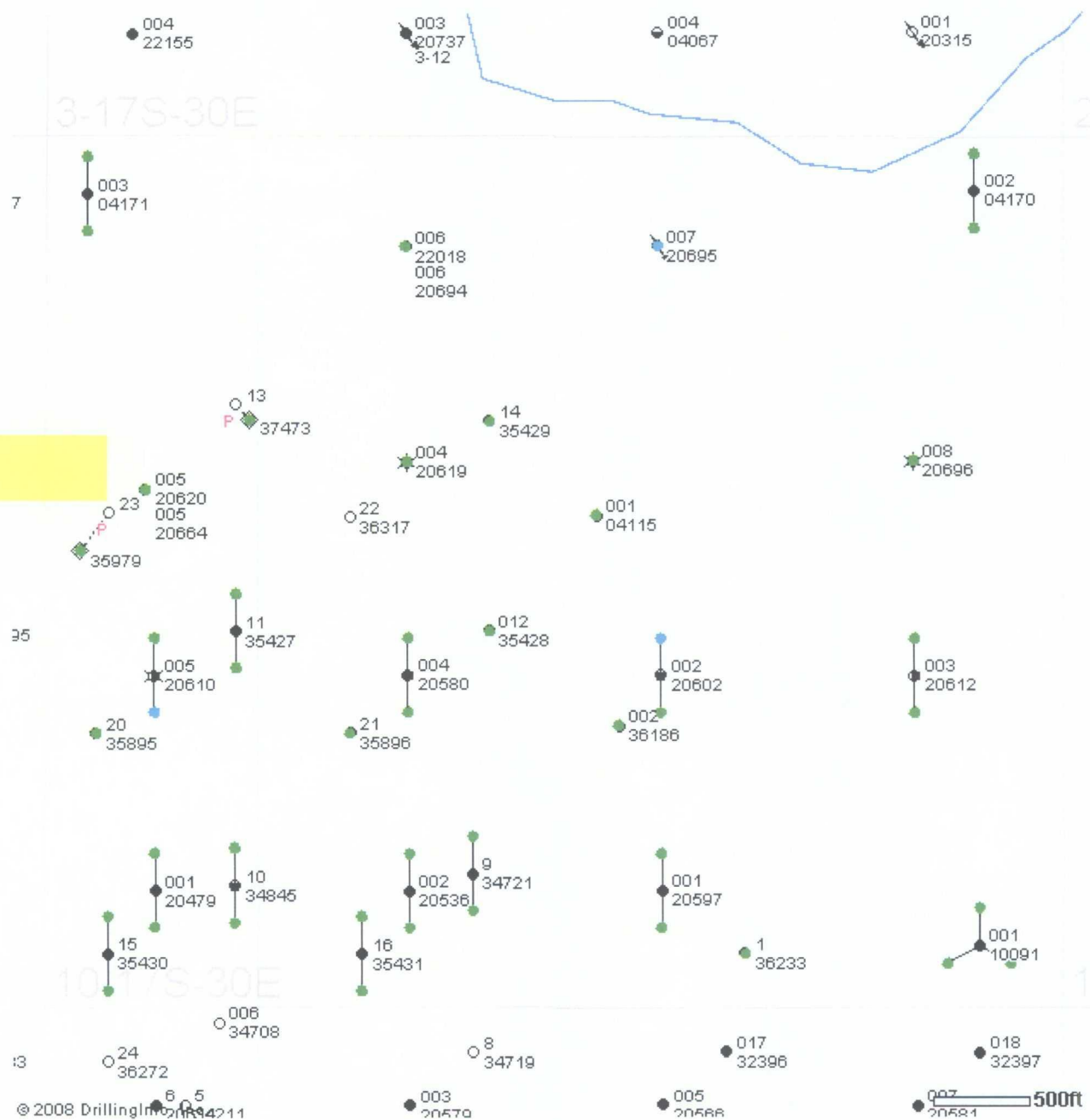
DESCRIPTION 230' FNL & 330' FEL

ELEVATION 3727'

COG
OPERATOR OPERATING, LLC

LEASE ELECTRA FEDERAL

PROVIDING SURVEYING SERVICES
SINCE 1945
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117



Offset Wells to Electra Federal 34

API#	Operator	Lease	Well#	County	Legal	First Prod.	Last Prod.	Field Name	Reservoir Name	Total Well Depth	Well Statu
30-015-04115	CBS OPERATING CORPORATION	FEDERAL R	001	EDDY	S:10, T:17S, R:30E	Jan 1973	Feb 2008	SQUARE LAKE	GRAYBURG-SAN ANDRES		Active
30-015-04170	CBS OPERATING CORPORATION	FEDERAL R	002	EDDY	S:10, T:17S, R:30E	Jan 1958	Feb 2008	SQUARE LAKE	GRAYBURG-SAN ANDRES	3,254	Active
30-015-04171	CBS OPERATING CORPORATION	FEDERAL R	003	EDDY	S:10, T:17S, R:30E	Jan 1958	Feb 2008	SQUARE LAKE	GRAYBURG-SAN ANDRES	2,982	Active
30-015-10091	HANSON ENERGY	GENERAL AMERICAN	001	EDDY	S:10, T:17S, R:30E	Jan 1967	Dec 1977	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		0	Pump
30-015-10091	HANSON ENERGY	GENERAL AMERICAN	001	EDDY	S:10, T:17S, R:30E	Jan 1964	Feb 2008	GRAYBURG JACKSON	SR-Q-G-SA	0	Pump
30-015-20479	CBS OPERATING CORPORATION	LOCO HILLS A FEDERAL	001	EDDY	S:10, T:17S, R:30E	Aug 1971	Oct 2007	GRAYBURG JACKSON	SR-Q-G-SA		Active
30-015-20479	CBS OPERATING CORPORATION	LOCO HILLS A FEDERAL	001	EDDY	S:10, T:17S, R:30E	Jan 1972	Dec 1977	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)			Active
30-015-20536	CBS OPERATING CORPORATION	LOCO HILLS A FEDERAL	002	EDDY	S:10, T:17S, R:30E	Dec 1971	Feb 2008	GRAYBURG JACKSON	SR-Q-G-SA	2,917	Flowir
30-015-20536	CBS OPERATING CORPORATION	LOCO HILLS A FEDERAL	002	EDDY	S:10, T:17S, R:30E	Jan 1972	Dec 1974	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		2,917	Flowir
30-015-20580	CBS OPERATING CORPORATION	LOCO HILLS A FEDERAL	004	EDDY	S:10, T:17S, R:30E	Jan 1979	Nov 2007	GRAYBURG JACKSON	SR-Q-G-SA		Active
30-015-20580	CBS OPERATING CORPORATION	LOCO HILLS A FEDERAL	004	EDDY	S:10, T:17S, R:30E	Mar 1972	Dec 1977	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)			Active
30-015-20597	SOUTHLAND ROYALTIES INC	PARKE FEDERAL	001	EDDY	S:10, T:17S, R:30E	Jan 1979	Jun 2005	GRAYBURG JACKSON	SR-Q-G-SA	3,400	Pump
30-015-20597	SOUTHLAND ROYALTIES INC	PARKE FEDERAL	001	EDDY	S:10, T:17S, R:30E	Apr 1972	Dec 1977	GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		3,400	Pump
	SOUTHLAND	PARKE			S:10,						

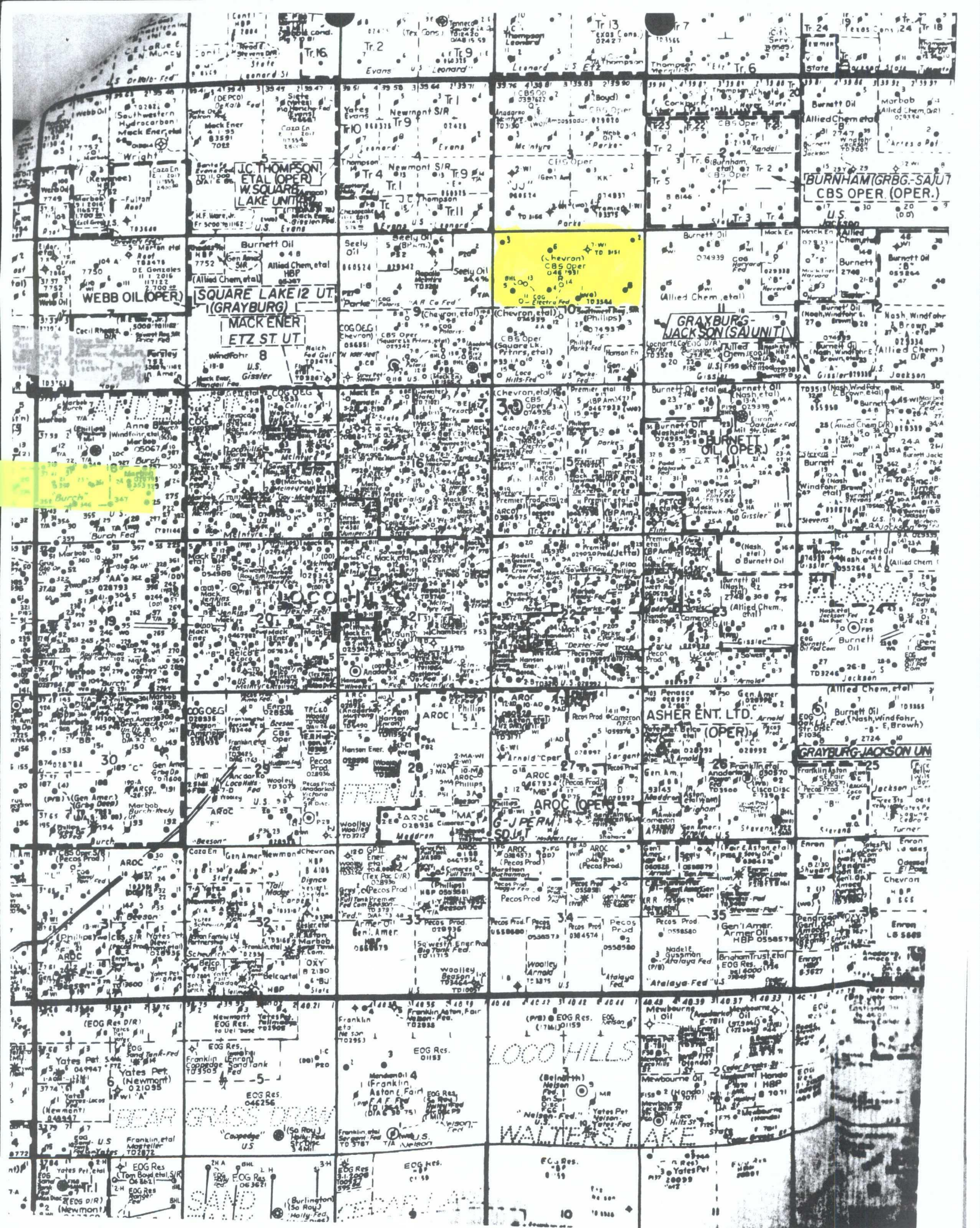
30-015-20602	ROYALTIES INC	FEDERAL	002	EDDY	T:17S, R:30E	GRAYBURG JACKSON	SR-Q-G-SA	3,399	Pump
30-015-20602	SOUTHLAND ROYALTIES INC	PARKE FEDERAL	002	EDDY	S:10, T:17S, R:30E	Apr 1972 Dec 1974 GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		3,399	Pump
30-015-20610	CBS OPERATING CORPORATION	LOCO HILLS A FEDERAL	005	EDDY	S:10, T:17S, R:30E	May 1972 Dec 1974 GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		2,893	Flowir
30-015-20610	CBS OPERATING CORPORATION	LOCO HILLS A FEDERAL	005	EDDY	S:10, T:17S, R:30E	Jan 2001 Feb 2005 GRAYBURG JACKSON	SR-Q-G-SA	2,893	Flowir
30-015-20612	SOUTHLAND ROYALTIES INC	PARKE FEDERAL	003	EDDY	S:10, T:17S, R:30E	Jun 1972 Dec 1977 GRAYBURG JKSN SR-Q-G-SA(DO NOT USE)		3,400	Pump
30-015-20612	SOUTHLAND ROYALTIES INC	PARKE FEDERAL	003	EDDY	S:10, T:17S, R:30E	Jan 1979 Apr 2004 GRAYBURG JACKSON	SR-Q-G-SA	3,400	Pump
30-015-20619	CBS OPERATING CORPORATION	FEDERAL R	004	EDDY	S:10, T:17S, R:30E	Jan 1973 Feb 2008 SQUARE LAKE	GRAYBURG-SAN ANDRES	2,970	Flowir
30-015-20620	CBS OPERATING CORPORATION	FEDERAL R	005	EDDY	S:10, T:17S, R:30E	Jan 1973 Feb 2008 SQUARE LAKE	GRAYBURG-SAN ANDRES	2,950	Active
30-015-20695	CBS OPERATING CORPORATION	FEDERAL R	007	EDDY	S:10, T:17S, R:30E	Dec 2001 Feb 2008 SQUARE LAKE	GRAYBURG-SAN ANDRES	3,160	Injecti
30-015-20696	CBS OPERATING CORPORATION	FEDERAL R	008	EDDY	S:10, T:17S, R:30E	Nov 1976 Feb 2008 SQUARE LAKE	GRAYBURG-SAN ANDRES	3,200	Flowir
30-015-22018	CBS OPERATING CORPORATION	FEDERAL R	006	EDDY	S:10, T:17S, R:30E	Mar 1977 Feb 2008 SQUARE LAKE	GRAYBURG-SAN ANDRES	3,195	Active
30-015-04170	WOLLEY, A. S.	PARKE H	002	EDDY	S:10, T:17S, R:30E	Feb 1956 Dec 1958 SQUARE LAKE	CANYON	3,254	Active
30-015-04171	WOOLLEY, A. S.	PARKE H	003	EDDY	S:10, T:17S, R:30E	Mar 1957 Dec 1958 SQUARE LAKE	CANYON	2,982	Active
30-015-10091	INMAN CURTIS R	GENERAL AMERICAN FEDERAL	001	EDDY	S:10, T:17S, R:30E	Nov 1963 Dec 1963 EDDY UNDE		0	Pump
30-015-34845	COG OPERATING LLC	ELECTRA FEDERAL	10	EDDY	S:10, T:17S, R:30E	Jan 2007 Feb 2008 LOCO HILLS	PADDOCK	6,000	Active
	COG				S:10,				

DI Search Results (Printable Table)

30-015-34721	OPERATING LLC	ELECTRA FEDERAL	9 EDDY	T:17S, R:30E	Jan 2007	Feb 2008	LOCO HILLS	PADDOCK	6,070	Active
30-015-34721	COG OPERATING LLC	ELECTRA FEDERAL	9 EDDY	S:10, T:17S, R:30E			LOCO HILLS GLORIETA YESO		6,070	Active
30-015-35427	COG OPERATING LLC	ELECTRA FEDERAL	11 EDDY	S:10, T:17S, R:30E	Jul 2007	Feb 2008	LOCO HILLS	PADDOCK	6,110	Active
30-015-35428	COG OPERATING LLC	ELECTRA FEDERAL	012 EDDY	S:10, T:17S, R:30E	Sep 2007	Feb 2008	LOCO HILLS	PADDOCK	6,000	Active
30-015-35429	COG OPERATING LLC	ELECTRA FEDERAL	14 EDDY	S:10, T:17S, R:30E			LOCO HILLS	PADDOCK	6,000	Active
30-015-35430	COG OPERATING LLC	ELECTRA FEDERAL	15 EDDY	S:10, T:17S, R:30E	Oct 2007	Feb 2008	LOCO HILLS	PADDOCK	5,925	Active
30-015-35431	COG OPERATING LLC	ELECTRA FEDERAL	16 EDDY	S:10, T:17S, R:30E	Nov 2007	Feb 2008	LOCO HILLS	PADDOCK	6,000	Active
30-015-34845	COG OPERATING COMPANY LLC	ELECTRA FEDERAL	10 EDDY	S:10, T:17S, R:30E			LOCO HILLS; GLORIETA YESO		6,000	Active
30-015-37473	COG OPERATING LLC	ELECTRA FEDERAL	13 EDDY	S:10, T:17S, R:30E			LOCO HILLS	PADDOCK	6,000	Active
30-015-35780	COG OPERATING LLC	ELECTRA FEDERAL	17 EDDY	S:10, T:17S, R:30E	Jan 2008	Feb 2008	LOCO HILLS	PADDOCK	6,106	Active
30-015-35781	COG OPERATING LLC	ELECTRA FEDERAL	19 EDDY	S:10, T:17S, R:30E	Jan 2008	Feb 2008	LOCO HILLS	PADDOCK	6,100	Active
30-015-35430	COG OPERATING LLC	ELECTRA FEDERAL	15 EDDY	S:10, T:17S, R:30E			LOCO HILLS GLORIETA YESO		5,925	Active
30-015-35895	COG OPERATING LLC	ELECTRA FEDERAL	20 EDDY	S:10, T:17S, R:30E			LOCO HILLS	PADDOCK	5,950	Active
30-015-35896	COG OPERATING LLC	ELECTRA FEDERAL	21 EDDY	S:10, T:17S, R:30E			LOCO HILLS	PADDOCK	5,950	Active
30-015-35427	COG OPERATING COMPANY LLC	ELECTRA FEDERAL	11 EDDY	S:10, T:17S, R:30E			LOCO HILLS; GLORETA-YESO (GAS)	GAS	6,110	Active
	COG			S:10,						

DI Search Results (Printable Table)

30-015-35979	OPERATING LLC	ELECTRA FEDERAL	23	EDDY	T:17S, R:30E	LOCO HILLS	PADDOCK	5,950	Active
30-015-35431	COG OPERATING LLC	ELECTRA FEDERAL	16	EDDY	S:10, T:17S, R:30E	LOCO HILLS; GLORETA-YESO (GAS)	GAS	6,000	Active
30-015-35780	COG OPERATING LLC	ELECTRA FEDERAL	17	EDDY	S:10, T:17S, R:30E	LOCO HILLS; GLORETA-YESO (GAS)	GAS	6,106	Active
30-015-35781	COG OPERATING LLC	ELECTRA FEDERAL	19	EDDY	S:10, T:17S, R:30E	LOCO HILLS; GLORIETA YESO		6,100	Active
30-015-36186	CIMAREX ENERGY CO. OF COLORADO	HYDRUS 10 FEDERAL	002	EDDY	S:10, T:17S, R:30E	LOCO HILLS	PADDOCK	6,000	Active
30-015-36233	CIMAREX ENERGY CO. OF COLORADO	HYDRUS 10 FEDERAL	1	EDDY	S:10, T:17S, R:30E	LOCO HILLS	PADDOCK	6,000	Active



**COG OPERATING LLC
550 W. TEXAS, SUITE 1300
MIDLAND, TX 79701**

June 11, 2008

Conoco – Phillips
Mid-Continent Business Unit
3300 North A Street, Bldg 6
Midland, TX 79705

Re: Request for Unorthodox Well Location

To Whom It May Concern:

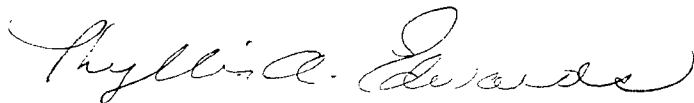
This letter will serve as notice under Rule 104.F (3) that COG Operating LLC has requested administrative approval from the Oil Conservation Division in Santa Fe, NM for an unorthodox Loco Hills: Glorieta Yeso oil well.

**ELECTRA FEDERAL #34
Eddy County, NM
100' FNL & 330' FEL Sec 10, T17S, R30E**

Should your company have any objection, it must be filed in writing within twenty (20) days from the date of this notice. The Division Director may allow COG to produce from the unorthodox location after the well is drilled, if no objection has been made within the 20 days after the application has been received.

Sincerely,

COG Operating LLC



Phyllis A. Edwards
Regulatory Analyst

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Conoco – Phillips
Mid-Continent Business Unit
3300 North A Street, Bldg 6
Midland, TX 79705

COMPLETE THIS SECTION ON DELIVERY

A. Signature

x *Chene Leary*☐ Agent☐ Addressee

B. Received by (Printed Name)

Renata

C. Date of Delivery

*6/12/08*D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☒ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

2. Article Number

(Transfer from service label)

7005 0390 0000 6041 4865