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Staff Landman  
Mid-America – Permian Basin  
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Houston, TX 77079  
Tel: 832-486-2338  
Fax: 832-486-2674

March 12, 2013

Bureau of Land Management  
Carlsbad Field Office  
620 E. Greene St.  
Carlsbad, New Mexico 88220-6292

State of New Mexico  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87504

RE: Grayburg Deep Unit  
14-08-001-1602, Serial No. NMNM-070954X  
2013 Plan of Development  
Eddy County, New Mexico  
ConocoPhillips Contract 052412

ConocoPhillips Company (COPC), as Unit Operator of the Grayburg Deep Unit, hereby submits for your approval, our 2013 Plan of Development.

Items are included as follows: Planned 2013 operations; previous year operations; current status of all wells within the unit; production graphs for each productive reservoir. Also attached are three current maps, each showing respectively the units: structural and geologic interpretations; participating area boundaries; wells, tank batteries, natural gas sales meters, flow-lines, and roads.

It is understood that approval of this plan does not approve the work covered by the plan. Individual approval is still required for such items as APDs/ROWS/etc.

Any modifications or additions to this Plan of Development will be filed as supplements to the plan.

Sincerely,

Thomas J. Scarbrough, CPL  
Staff Landman

## 2013 Planned Operations:

### Drilling

None

### Completions

None

### Plug Back/Recompletion

Recompletions contingent upon internal and partner approval:

WELL NAME & NUMBER	API NUMBER	COMP DATE	CURRENT ZONE	NEW ZONE	STATUS
GRAYBURG DEEP UNIT 1	300150418700	7/13/1954	-	YESO	SI
GRAYBURG DEEP UNIT 14	300152976600	4/30/2008	MORROW	YESO	FLOWING

### Conversion

None

### Abandonment

None

### Other surface disturbing operations

None

## Previous Year Operations (2012):

### Drilling

None

### Completions

None

### Plug Back

WELL NAME & NUMBER	API NUMBER	COMP DATE	OLD ZONE	CURRENT ZONE	STATUS
GRAYBURG DEEP UNIT 1	300150418700	7/13/1954	PENN	NONE	SI

**Conversion**

None

**Abandonment**

None

**Other surface disturbing operations**

None

**Status of all Wells within the Unit:**

WELL NAME & NUMBER	API NUMBER	COMP DATE	ZONE	STATUS	Last Test
GRAYBURG DEEP UNIT 1	300150418700	7/13/1954	PENN	SI	-
GRAYBURG DEEP 30 FEDERAL 1	300153195800	11/5/2001	MORROW	PERM ABAN	-
GRAYBURG DEEP 30 FEDERAL 1	300153195800	11/15/2005	ATOKA	PERM ABAN	-
GRAYBURG DEEP 25 FEDERAL 5	300150308300	4/25/1985	ABO /SH/	FLOWING	3 bopd, 16 Mcfd
GRAYBURG DEEP UNIT 10	300152579600	12/18/1987	PENN	PERM ABAN	-
GRAYBURG DEEP UNIT 14	300152976600	4/30/2008	MORROW	FLOWING	0 bopd, 124 Mcfd
GRAYBURG DEEP UNIT 14	300152976600	10/14/1997	WOLFCAMP	PERM ABAN	-
GRAYBURG DEEP UNIT 15	300153030000	9/27/1998	MORROW	PERM ABAN	-
GRAYBURG DEEP UNIT 16	300153414100	6/30/2006	PENN	PERM ABAN	-
GRAYBURG DEEP UNIT 17	300153421400	10/25/2002	PENN	FLOWING	1 bopd, 5 Mcfd
GRAYBURG DEEP UNIT 18	300153490500	8/15/2006	ABO /SH/	PERM ABAN	-
GRAYBURG DEEP UNIT 22	300153559800	8/20/2007	WOLFCAMP	PUMPING	2 bopd, 38 Mcfd

**Production Graphs:**

See Attachments

**Map of structural and geologic interpretations:**

See Attachments

**Map of Participating area boundaries:**

See Attachments

**Map of Wells, flow-lines, and roads:**

See Attachments

The GDU is comprised of two distinct participating areas, as set forth in the table below. A map of the participating areas, along with a reservoir performance graph for the participating area is attached hereto.

Grayburg Deep	Lower Penn 3rd PA Expansion	11/1/1998	NMNM-07095A	AFS-8910016020
Grayburg Deep	Initial Wolfcamp P.A.	9/1/2007	NMNM-070954B	

The working interest owners have been provided a copy of this 2013 Plan of Development. ConocoPhillips Company and the working interest owners believe that all current Grayburg Deep Unit obligations have been satisfied.

In accordance with Article 10 of the Grayburg Deep Unit Agreement, please signify your approval of the 2013 Plan of Development by executing in the signature block below. Please return one approved copy to the undersigned.

Should you have any questions or comments in this regard, please contact me at 832-486-2338.

Respectfully submitted,

\_\_\_\_\_  
**Bureau of Land Management**

\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**New Mexico Oil Conservation Division**

\_\_\_\_\_  
**Date**

The foregoing approvals are for the 2013 Plan of Development for the Grayburg Deep Unit, 14-08-001-1602, Eddy County, New Mexico.

Cc:

Mr. Doug Hurlbut  
EOG Resources Inc.  
4000 N. Big Spring  
Midland, TX 79705

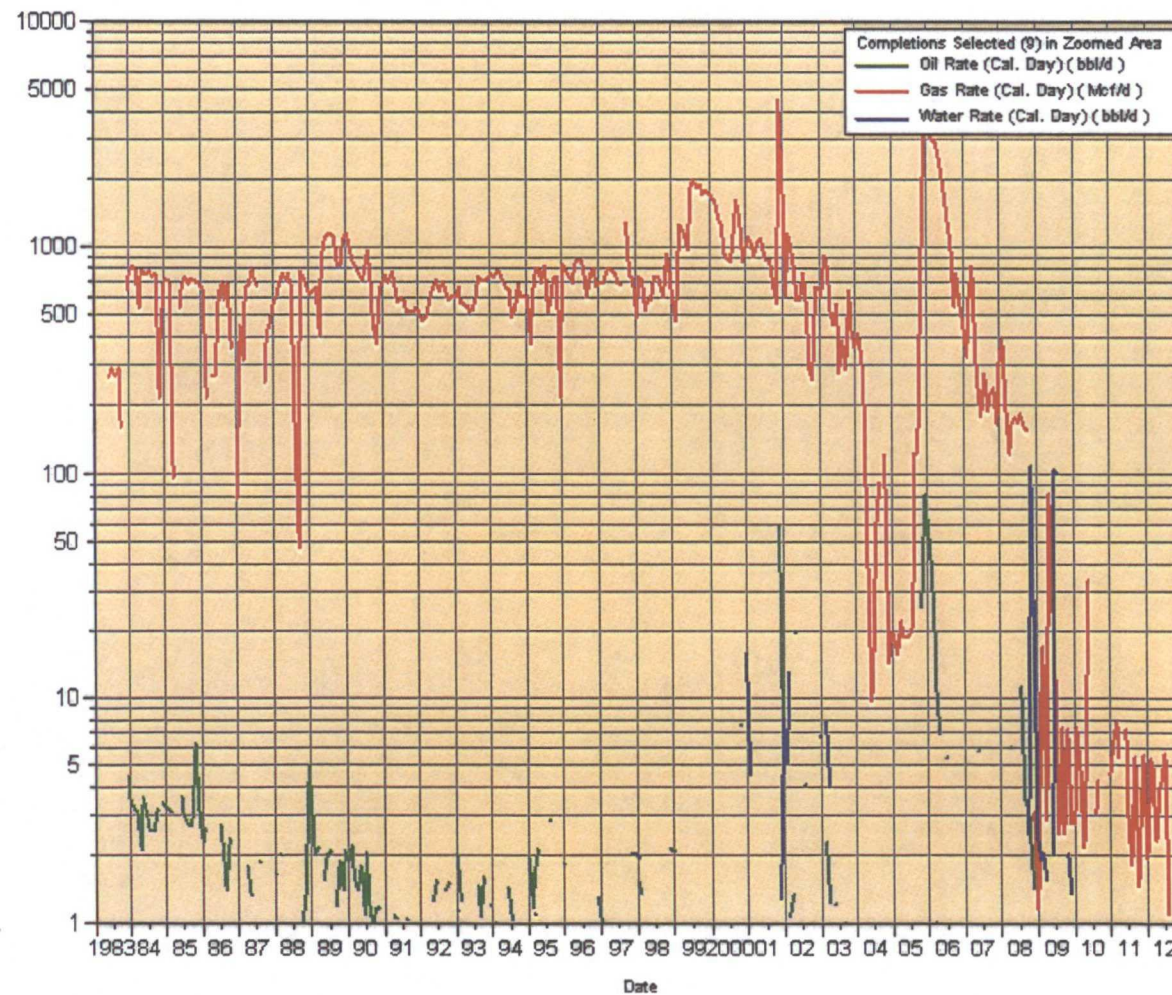
Ms. Debbie Singleton  
Davoil, Inc.  
6300 Ridglea Place, Suite 1208  
Fort Worth, TX 76116

Mr. Carter Muir  
Great Western Drilling Company  
700 W. Louisiana  
Midland, TX 79701

Mr. Jeff Gotcher  
Cimarex Energy Co.  
600 N. Marienfeld St., Suite 600  
Midland, TX 79701

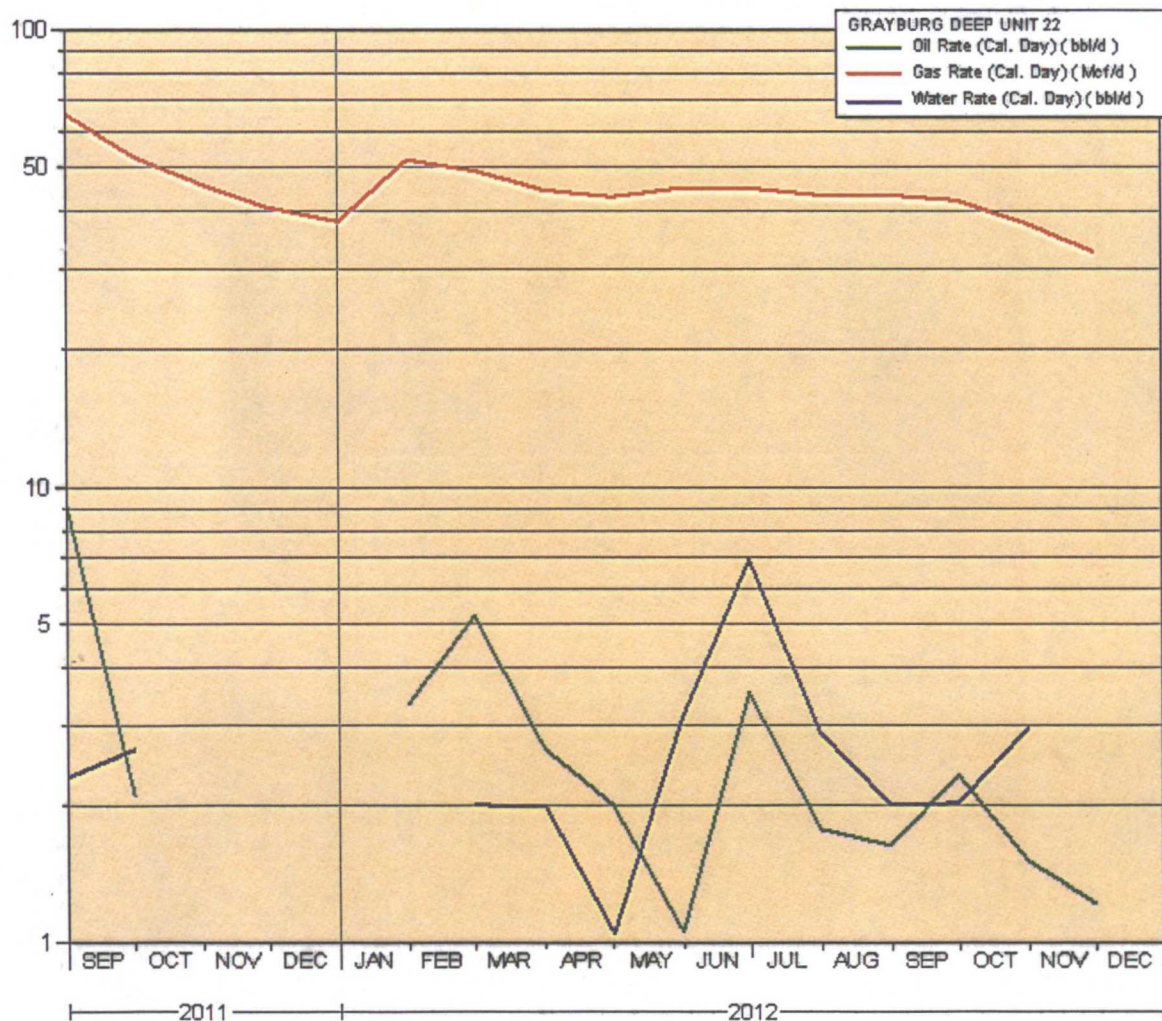
# 2012 - Penn

Cum Gas = 6.6 (Bcf) GRAYBURG DEEP UNIT Qg= 5 (Mscfpd)  
Cum Oil = 18.9 (Mbbl) <Ambiguous> Qo= 1 (bopd)  
Cum Water = 14.3 (Mbbl) <Ambiguous> Qw= 0 (bwpd)

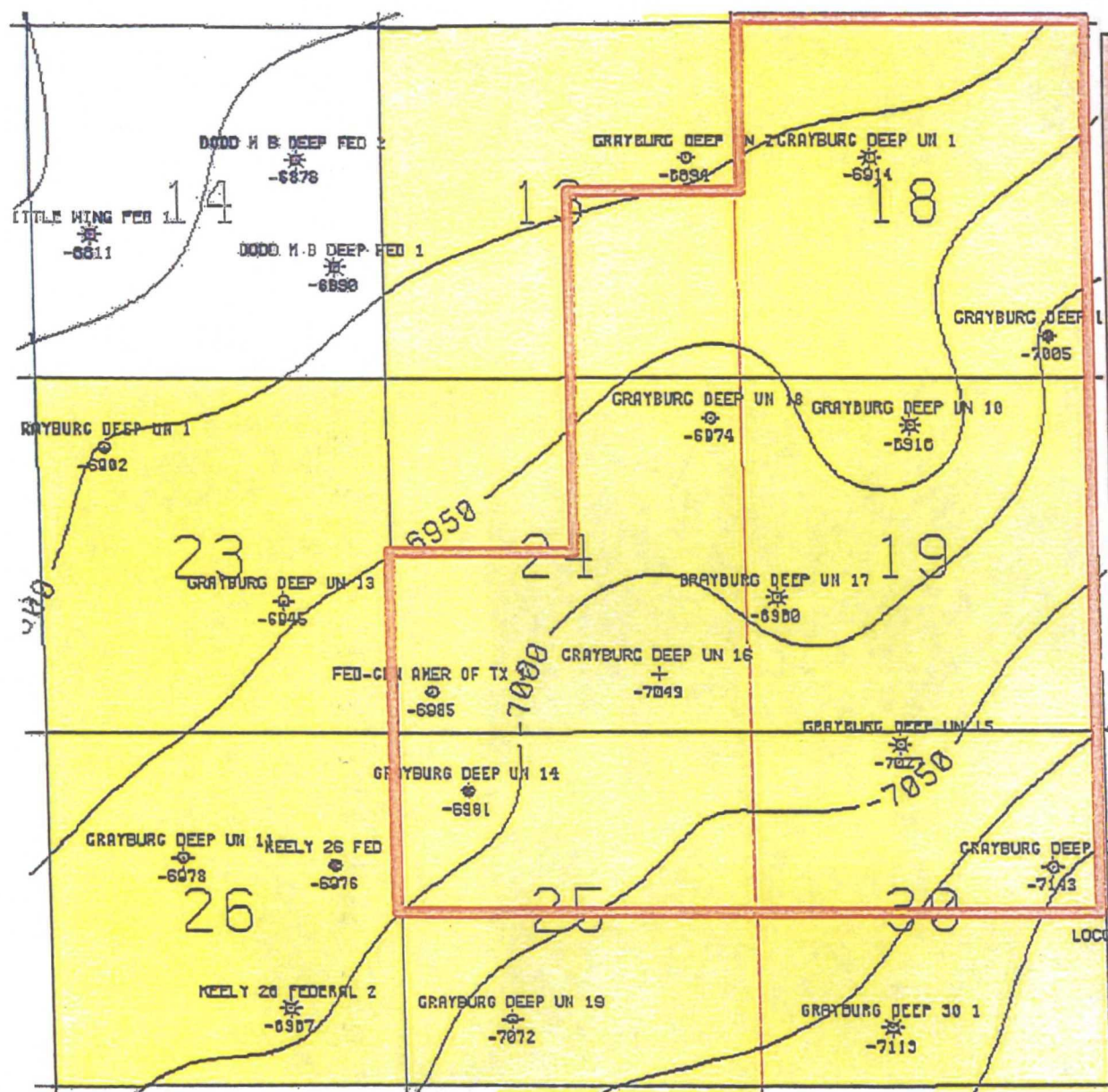


# 2012 - Wolfcamp

Cum Gas = 0.0 (Bcf) GRAYBURG DEEP UNIT Qg= 33 (Mscfpd)  
 Cum Oil = 1.1 (Mbbbl) GRAYBURG DEEP UNIT 22 Qo= 1 (bopd)  
 Cum Water = 0.9 (Mbbbl) <N/A> 300153559800901 Qw= 1 (bwpd)







## Grayburg Deep Unit

Geologic Structure on Top  
Morrow

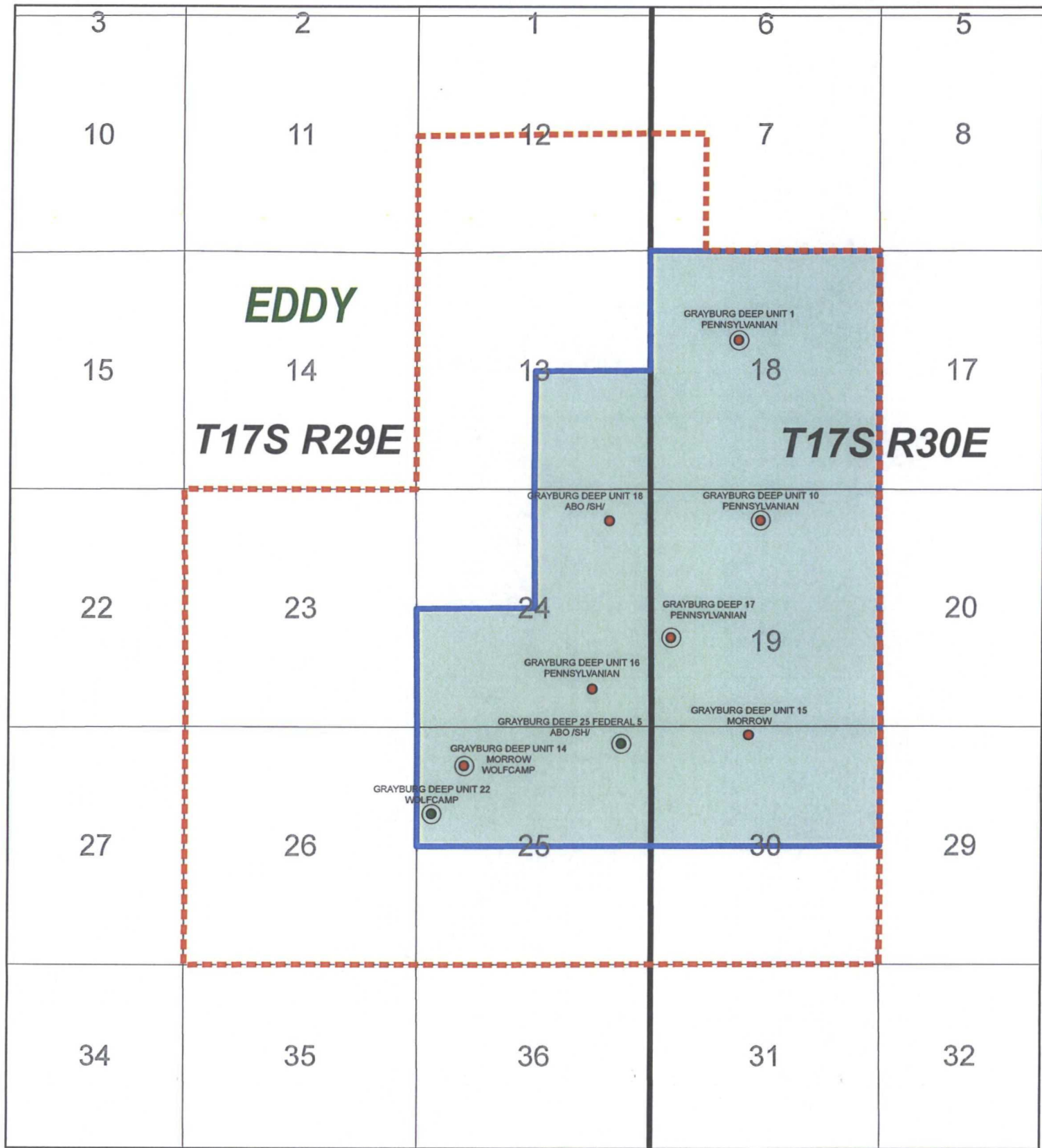
Contour Interval 50 feet



ConocoPhillips Lands

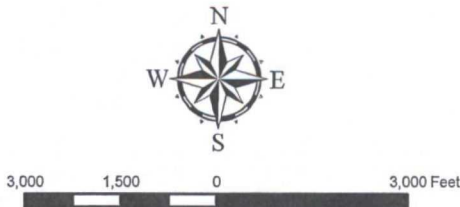
Operating Unit Boundary





**Legend**

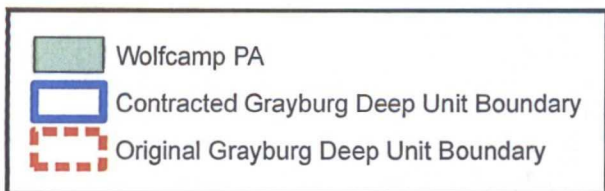
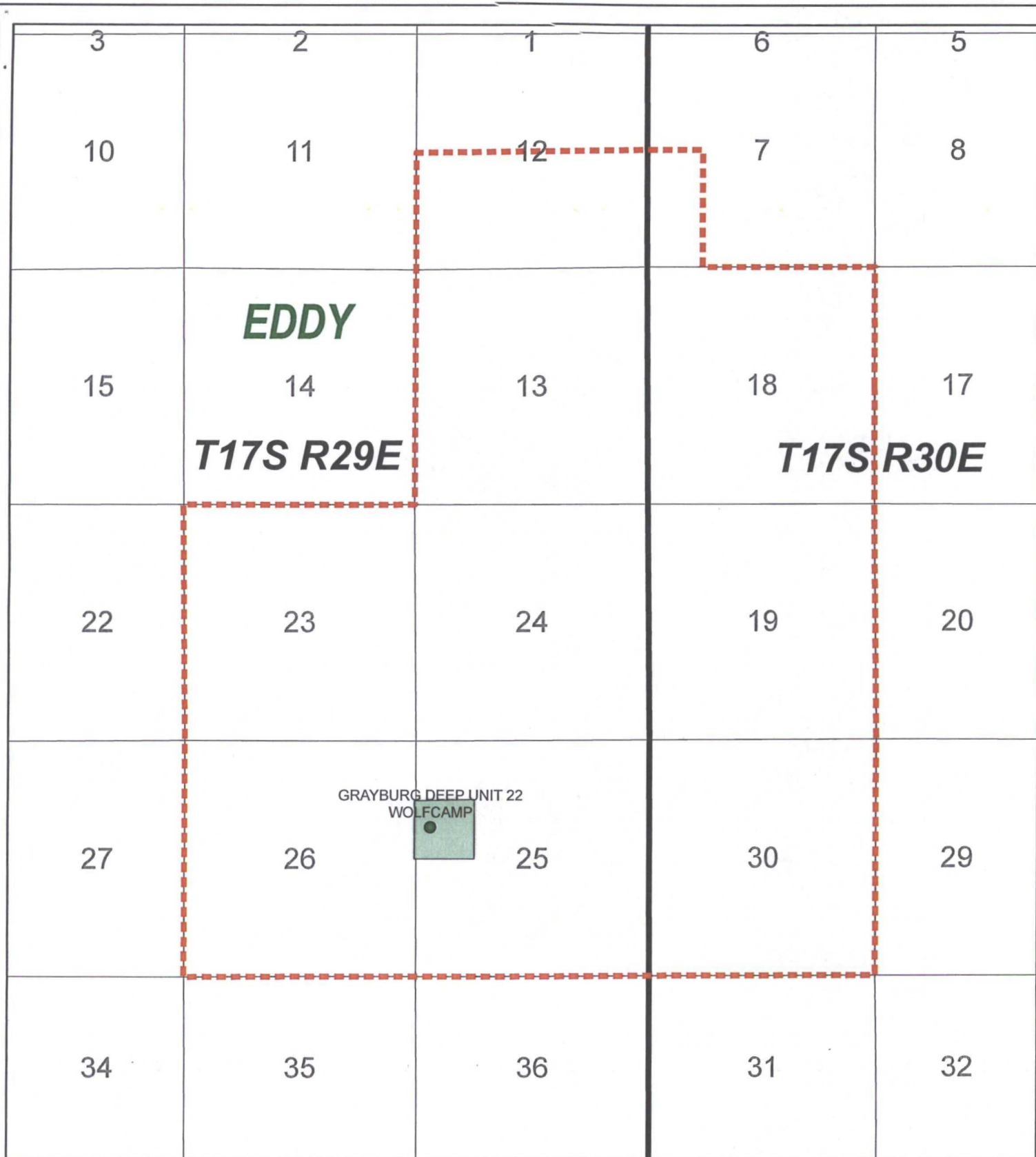
- Active Wells
- CRUDE OIL
- GAS
- Original Grayburg Deep Unit Boundary
- Contracted Grayburg Deep Unit Boundary
- Lower Penn PA



**ConocoPhillips**  
Mid-Continent Land

**Southeast New Mexico  
Grayburg Deep Unit  
Lower Penn PA**

Author: Betty Dimiterchik	Date: 2/19/2013
Compiled by: Angela Whitfield	Scale: 1"=3,000'
Project File: grayburg_unit_lower_penn_pa_pod.mxd	



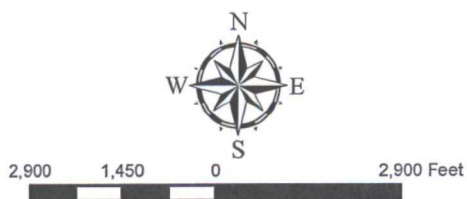
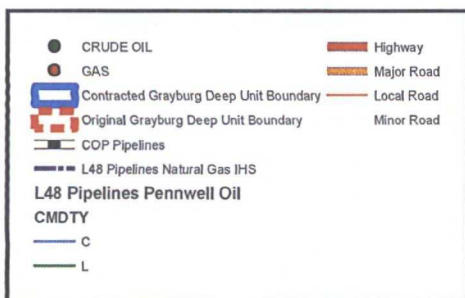
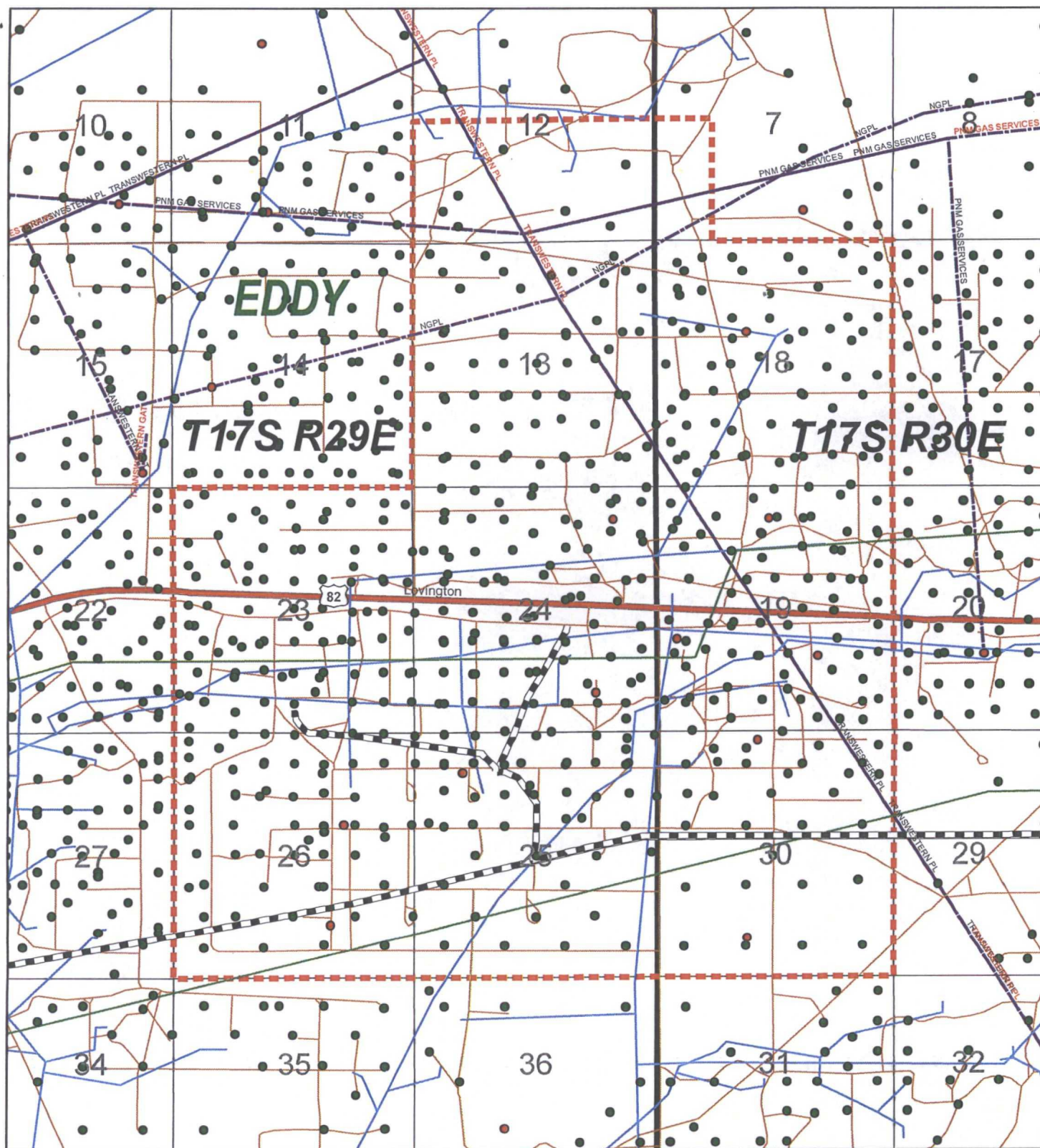
ConocoPhillips

Mid-Continent Land

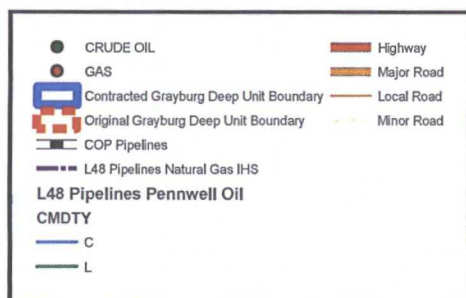
**Southeast New Mexico**  
**Grayburg Deep Unit**  
**Wolfcamp P.A.**

Author: Betty Dimitrich	Date: 2/19/2013
Compiled by: ARW	Scale: 1"=3,000'
Project File: Grayburg Deep Wolfcamp PA.mxd	









3,100 1,550 0 3,100 Feet

ConocoPhillips

Mid-Continent Land

## Southeast New Mexico Grayburg Deep Unit

Author: Ashley Manning-Dyke	Date: 2/05/2013
Compiled by: Ashley Manning-Dyke	Scale: 1:35,000
Project File: grayburg_pod_field_map.mxd	