

11/28/06 DATE IN	SUSPENSE	BROOKS ENGINEER	LOGGED IN 11/29/06	TYPE NSL	APP NO. PTDS0633361448
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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



*Chewron*  
*C.P. Falley Fed A#6*  
*5533*

## 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.

Print or Type Name

Signature

Title

Date

e-mail Address

DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
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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



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☒ 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 \_\_\_\_\_

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**Note: Statement must be completed by an individual with managerial and/or supervisory capacity.**

Sarah Rittenhouse  
 Print or Type Name

Signature

Project Manager / Geologist  
 Title

11/6/2006  
 Date

Sarah.Rittenhouse@chevron.com  
 e-mail Address



Sarah C. Rittenhouse  
Project Manager / Geologist

North America Upstream  
Midcontinent Business Unit  
11111 S. Wilcrest, Rm S1031  
Houston, Texas 77099  
Tel (281) 561-3773  
Fax (281) 561-3576  
sarah.rittenhouse@chevron.com

November 6, 2006

2006 NOV 28 AM 10 12

**Request for Administrative Approval of  
Unorthodox Oil Well Location and  
Simultaneous Dedication**

Mr. Mark E. Fesmire  
New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Dear Mr. Fesmire:

Chevron respectfully requests administrative approval of an unorthodox oil well location for the following well:

**C.P. Falby Federal A #6**  
1310' FNL & 1100' FWL, NW/4 NW/4 of  
Section 8, T22S, R37E, Unit Letter D  
Lea County, New Mexico

The proposed well will be an infill producer in the Penrose Skelly, Grayburg Pool [Pool Code 50350], which is an oil pool spaced on 40 acres. This well is a continuation of our 4 year infill drilling in the same Pool. Chevron's technical analysis of the reservoir still supports the contention that typical Grayburg wells cannot drain 40 acres.

The NW/4 NW/4 of Section 8 will be simultaneously dedicated in the Penrose Skelly, Grayburg Pool to the proposed well and to the SO Penrose Sky Unit #151. The SO Penrose Sky Unit #151 was drilled pre-1970 as a Penrose Skelly, Grayburg producer. Chevron also requests approval of the simultaneous dedication.

This application is based on geological and engineering analysis. The analysis and justification for this request is attached as Exhibit 1, along with other supporting documentation. There are four wells that have produced the Grayburg formation in the NW/4 of Section 8. The proposed well will be located in the approximate northwest center point of those wells and 330' off the lease line. Based on drainage calculations, Chevron believes that drilling the infill well will recover reserves that would not be recovered by existing Grayburg producers.

A land plat highlighting the proposed well's location is attached as Exhibit 2. The NW/4 of Section 8 is covered by a single fee lease and has common royalty and working interest ownerships. For that reason and the proposed location of the infill well, there are no adversely affected interest owners and no one has been notified of this application.

November 6, 2006

Page 2

If you have any questions concerning this application or need additional information, please contact me by phone at (281) 561-3773 or by email at [sarah.rittenhouse@chevron.com](mailto:sarah.rittenhouse@chevron.com). If I am not available, you can also reach Michael Gelbs by phone at (281) 561-7939 or by email at [mike.gelbs@chevron.com](mailto:mike.gelbs@chevron.com). Thank you for consideration of this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Sarah Rittenhouse", with a long horizontal flourish extending to the right.

Sarah C. Rittenhouse  
Project Manager / Geologist

**Attachments**

cc: NMOCD District 1 – Hobbs, NM  
Michael Gelbs  
Sarah Rittenhouse  
George Pritchard  
Well File

## **NOTIFICATION LIST**

Application of Chevron U.S.A. Inc. for Administrative Approval of an Unorthodox Oil Well Location and Simultaneous Dedication:

**C.P. Falby Fed A #6**

1310' FNL & 1100' FWL

Section 8, T22S, R37E, Unit Letter D

Lea County, New Mexico

**Offset Operators, Working Interest Owners, W/2 Section 8:**

- |    |   |                  |
|----|---|------------------|
| 1. | Chevron U.S.A. Inc.<br>11111 S. Wilcrest<br>Houston, TX 77099 | Operator/100% WI |
|----|---|------------------|

# State of New Mexico

Energy, Minerals and Natural Resources Department

## DISTRICT I

1625 N. FRANCES DR., HOBBES, 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

## 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	Pool Code	Pool Name
Property Code	Property Name <b>C.P. FALBY FEDERAL A</b>	Well Number <b>6</b>
OGRID No.	Operator Name <b>CHEVRON U.S.A. INC.</b>	Elevation <b>3429'</b>

### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	8	22-S	37-E		1310	NORTH	1100	WEST	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

Dedicated Acres	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

<p>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=514716.1 N X=852964.8 E</p> <p>LAT.=32.409877° N LONG.=103.189633° W</p>	<h3>OPERATOR CERTIFICATION</h3> <p>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.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <h3>SURVEYOR CERTIFICATION</h3> <p>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.</p> <p>OCTOBER 30, 2006</p> <p>Date Surveyed _____ JR</p> <p>Signature &amp; Seal of Professional Surveyor _____</p> <p><i>GARY E. EIDSON</i> 10/20/06 06.11.1691</p> <p>Certificate No. GARY EIDSON 12841</p>
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## **EXHIBIT 1**

### **ENGINEERING AND GEOLOGICAL JUSTIFICATION**

Application of Chevron U.S.A. Inc. for Administrative Approval of an Unorthodox Oil Well Location and Simultaneous Dedication:

**C.P. Falby Fed A #6**

1310' FNL & 1100' FWL

Section 8, T22S, R37E, Unit Letter D

Lea County, New Mexico

**PRIMARY OBJECTIVE: GRAYBURG**

**SUPPORTING DATA:**

1. Chevron U.S.A. Inc. (Chevron) is the operator of the proposed C.P. Falby Fed A #6 well (Exhibit 3). The proposed total depth is 4300' in the top of the San Andres formation.
2. The completion will be in the Penrose Skelly, Grayburg Oil Pool and the proposed location encroaches toward the following wells (Exhibit 4).

Operator	Well	API #	Location	Formation	Cum Prod		Current Prod		Status
					MBO	MMCF	BOPD	MCFPD	
Chevron	C P Falby B #4	30025101060000	8-L	Grayburg	2	36	5	180	Active
Chevron	C P Falby B #1	30025101030000	8-K	Grayburg	123	-	-	-	Inactive
Chevron	C P Falby A #1	30025101170000	8-C	Grayburg	39	134	-	-	Inactive
Chevron	C P Falby A #3	30025101180000	8-F	Grayburg	40	13	-	-	Inactive
Chevron	So. PS Unit 151	30025101040000	8-D	Grayburg	102	214	-	-	Inactive
Chevron	So. PS Unit 181	30025101190000	8-N	Grayburg	35	63	-	-	Inactive
Chevron	So. PS Unit 180	30025214980000	8-M	Grayburg	2	26	-	-	Inactive
Chevron	So. PS Unit 156	30025101200000	8-E	Grayburg	4	97	-	-	Inactive

3. The proposed C.P. Falby Fed A #6 unorthodox Grayburg location is based primarily on drainage considerations:

a. Grayburg Reservoir

The Grayburg is a series of alternating subtidal and supratidal dolomites with the subtidal rock having porosity and hydrocarbons while the

supratidal rock is tight. The Grayburg depositional environments varied rapidly so that many porous and tight intervals are not continuous from well to well on 40-acre spacing. Tight dolomite and/or anhydrite intervals within the Grayburg create vertical and horizontal flow barriers between different zones of porosity. Additionally, average porosity of the Grayburg is less than 10%, and the average permeability is less than 1 millidarcy. For all of these reasons, Grayburg wells are not usually capable of draining a 40-acre proration unit.

The reservoir was also analyzed by mapping the Hydrocarbon Pore Volume (HCPV) (Exhibit 5). HCPV is the product of feet of net pay (h) times average porosity (phi) times oil saturation ( $S_o$ ). The attached map is the arithmetic product of grids interpreted from those values. The values were obtained as follows:

1. Net pay was read from either modern neutron-density logs or estimated from a map developed from gross pay times net-to-gross ratio (Exhibit 4).
2. Average porosity was calculated from modern well logs using a minimum of 6% crossplot porosity and a maximum of 20%.
3. Oil saturation was calculated from a fractional flow curve using representative water cut values.

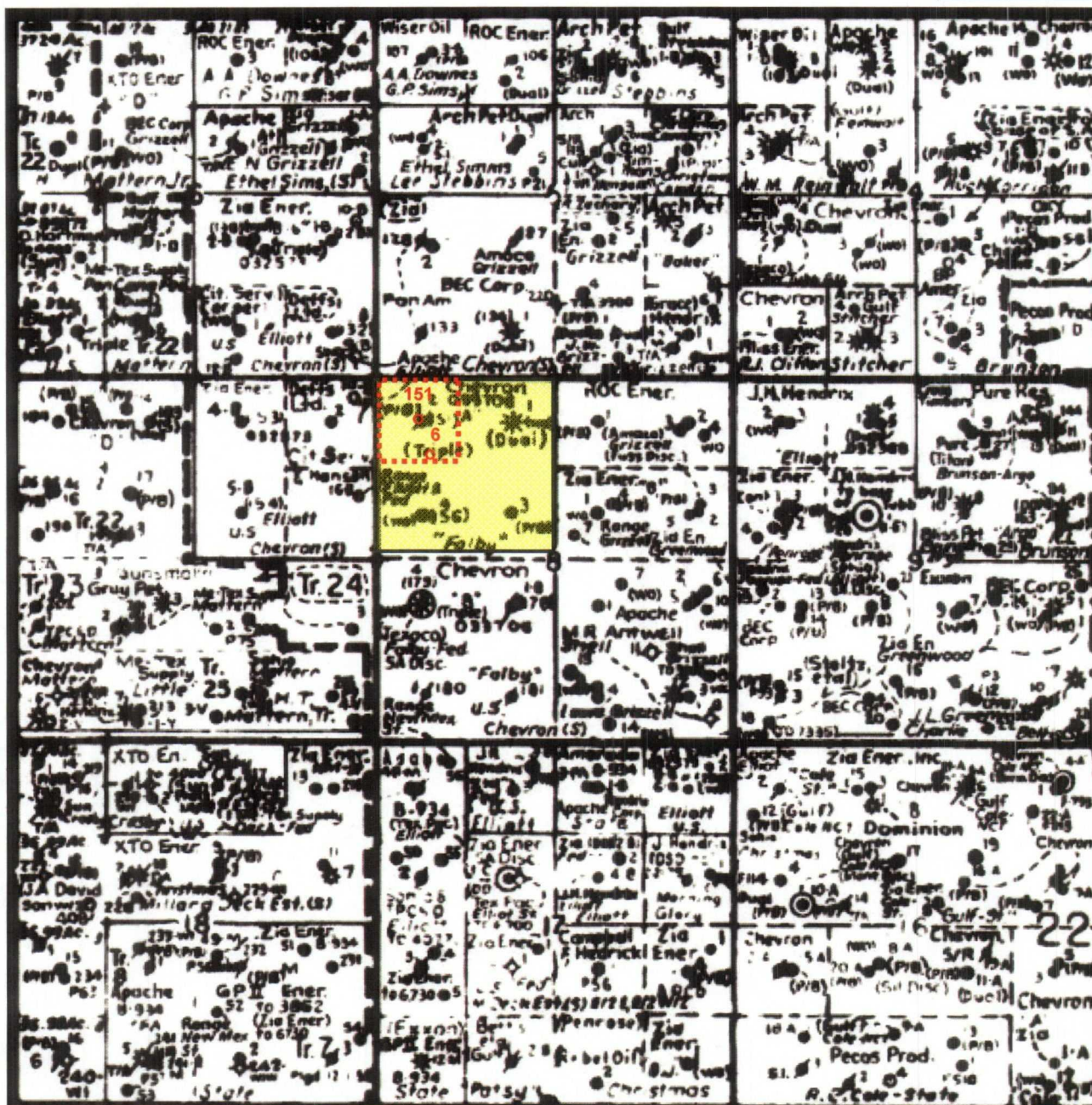
The following table provides drainage areas calculated from the HCPV map and reserves of the offsetting wells.

Operator	Well	API #	Location	Formation	Drainage Acres	EUR	
						MBO	MMCF
Chevron	C P Falby A #1	30025101170000	8-C	Grayburg	5	45	260
Chevron	C P Falby A #3	30025101180000	8-F	Grayburg	5	40	46
Chevron	So. PS Unit 151	30025101040000	8-D	Grayburg	12	102	214
Chevron	So. PS Unit 181	30025101190000	8-N	Grayburg	5	35	63
Chevron	So. PS Unit 180	30025214980000	8-M	Grayburg	0	2	26
Chevron	C P Falby B 1	30025101030000	8-K	Grayburg	16	123	0
Chevron	C P Falby B 4	30025101060000	8-L	Grayburg	0	2	36
Chevron	So. PS Unit 156	30025101200000	8-E	Grayburg	1	4	97

As seen above, the average drainage area of the offsetting locations is only 6 acres, and additional reserves can be recovered by drilling the proposed infill well at an approximate equidistant location from the existing offsetting producers. Reserves for the proposed location were calculated using the HCPV map, a 6 acre drainage area, and a 15% recovery factor. The results are as follows:

Operator	Well	Location	HCPV	Drainage Acres	EUR	
					MBO	MMCF
Chevron	Falby Fed A #6	8-D	9.8	6	70	409

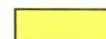
4. The W/2 of Section 8 is covered by a single fee lease which has common royalty and working interest ownerships. Chevron is the operator and 100% working interest owner of the Grayburg wells toward which the proposed well will encroach. Therefore, there are no offset interest owners or adversely affected parties to notify of this application.
5. The proposed C.P. Falby Fed A #6 will share a 40-acre proration unit and will be simultaneously dedicated with the SO Penrose Sky Unit 151 as a Penrose Skelly, Grayburg producer in Section 8, Unit Letter D.
6. Approval of this application will allow for the recovery of oil and gas reserves which would not otherwise be recovered.



## Chevron USA Inc.



SO Penrose Sky Unit #151  
 660 FNL & 660 FWL  
 C.P. Falby Fed A #6 (proposed)  
 13100 FNL & 1100 FWL, Unit D  
 Section 8, T22S-R37E  
 Lea County, New Mexico



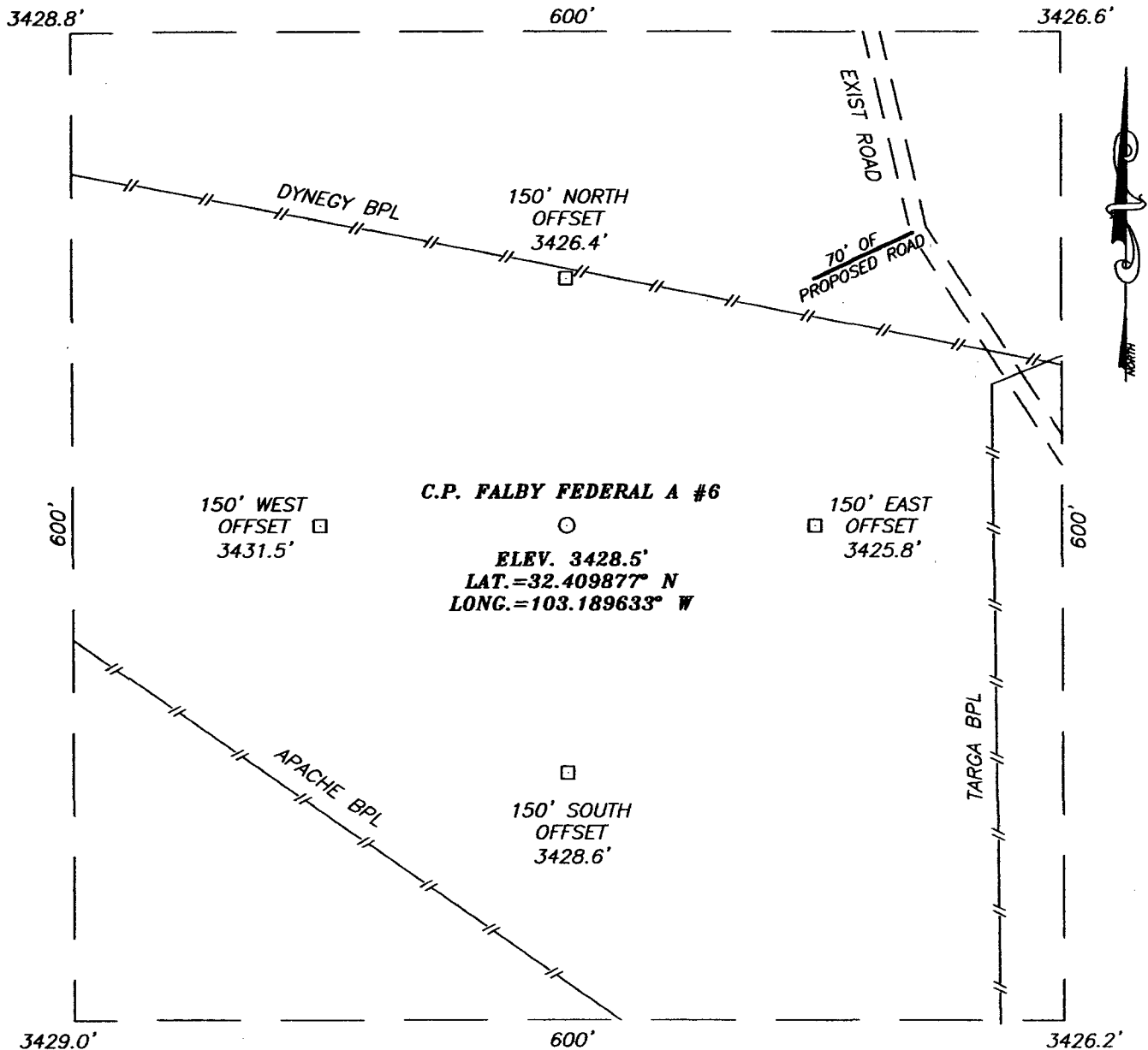
C.P. Falby A Lease



40 Acre Proration Unit

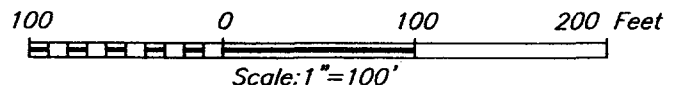
Scale: 1"=2000' Approx.

**SECTION 8 , TOWNSHIP 22 SOUTH, RANGE 37 EAST, N.M.P.M.,**  
LEA COUNTY, NEW MEXICO



**DIRECTIONS TO LOCATION**

FROM THE INTERSECTION OF S. LEGION RD. AND DELAWARE BASIN RD. (SOUTHWEST OF EUNICE), GO NORTH ON S. LEGION RD. APPROX. 0.3 MILES. TURN LEFT AT CATTLEGUARD AND GO WEST APPROX. 300 FEET, VEER RIGHT AND GO NORTH APPROX. 200 FEET, VEER LEFT AND GO WEST APPROX. 0.6 MILES, VEER RIGHT AND CONTINUE NORTHWEST APPROX. 0.4 MILES TO A PROPOSED ROAD SURVEY. FOLLOW PROPOSED ROAD SURVEY SOUTHWEST APPROX. 300 FEET TO THIS LOCATION.



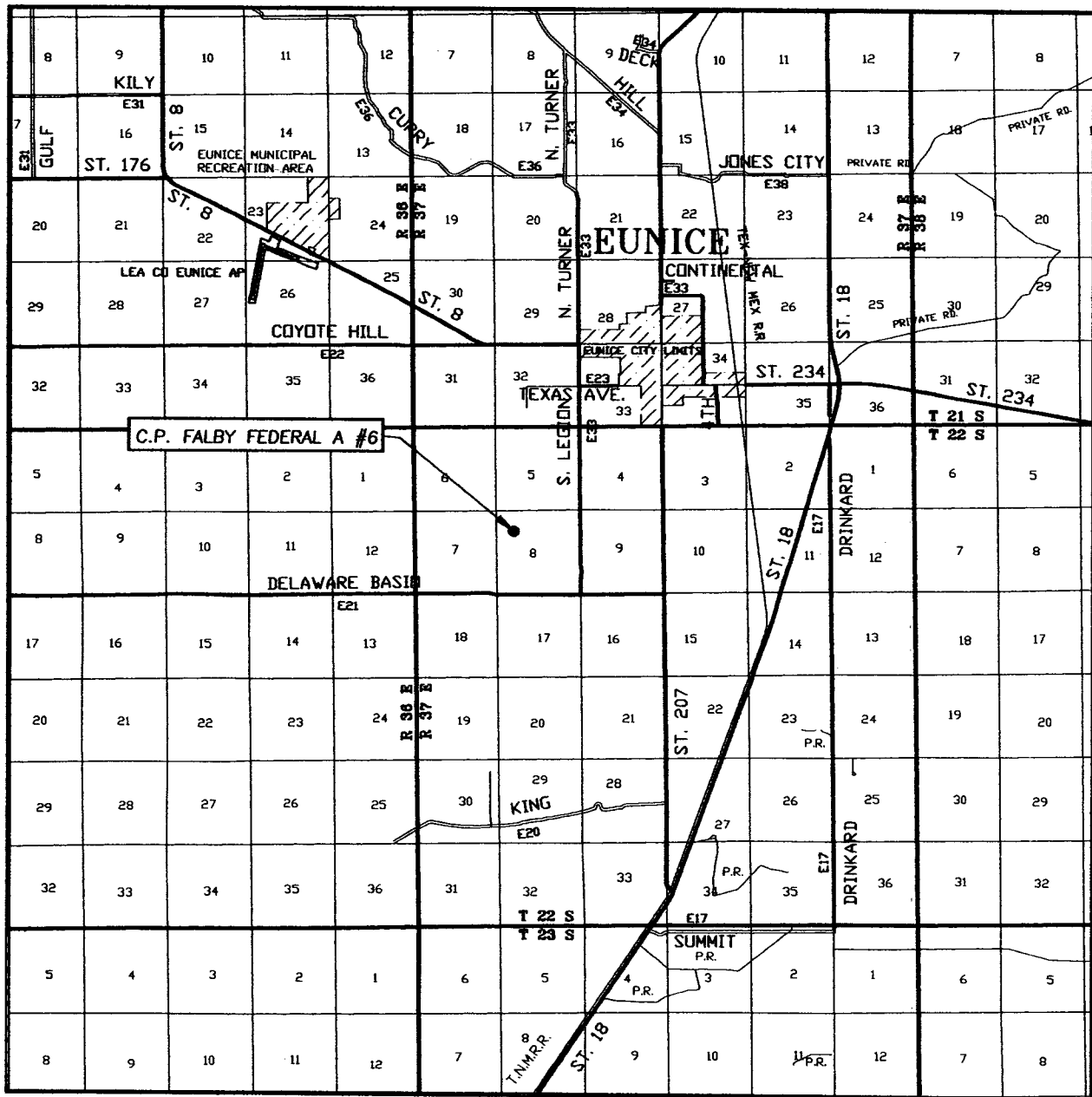
**CHEVRON U.S.A. INC.**

C.P. FALBY FEDERAL A #6  
LOCATED 1310 FEET FROM THE NORTH LINE  
AND 1100 FEET FROM THE WEST LINE OF SECTION 8,  
TOWNSHIP 22 SOUTH, RANGE 37 EAST, N.M.P.M.,  
LEA COUNTY, NEW MEXICO.

Survey Date: 10/30/06	Sheet 1 of 1 Sheets
W.O. Number: 06.11.1691	Dr By: JR
Date: 11/14/06	Disk: CD#1
06111691	Scale: 1"=100'

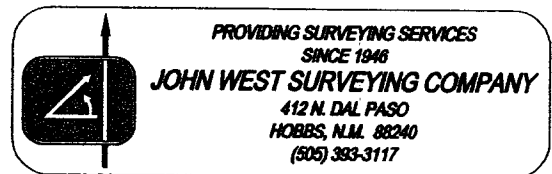
PROVIDING SURVEYING SERVICES  
SINCE 1946  
**JOHN WEST SURVEYING COMPANY**  
412 N. DAL PASO  
HOBBS, N.M. 88240  
(505) 393-3117

# VICINITY MAP

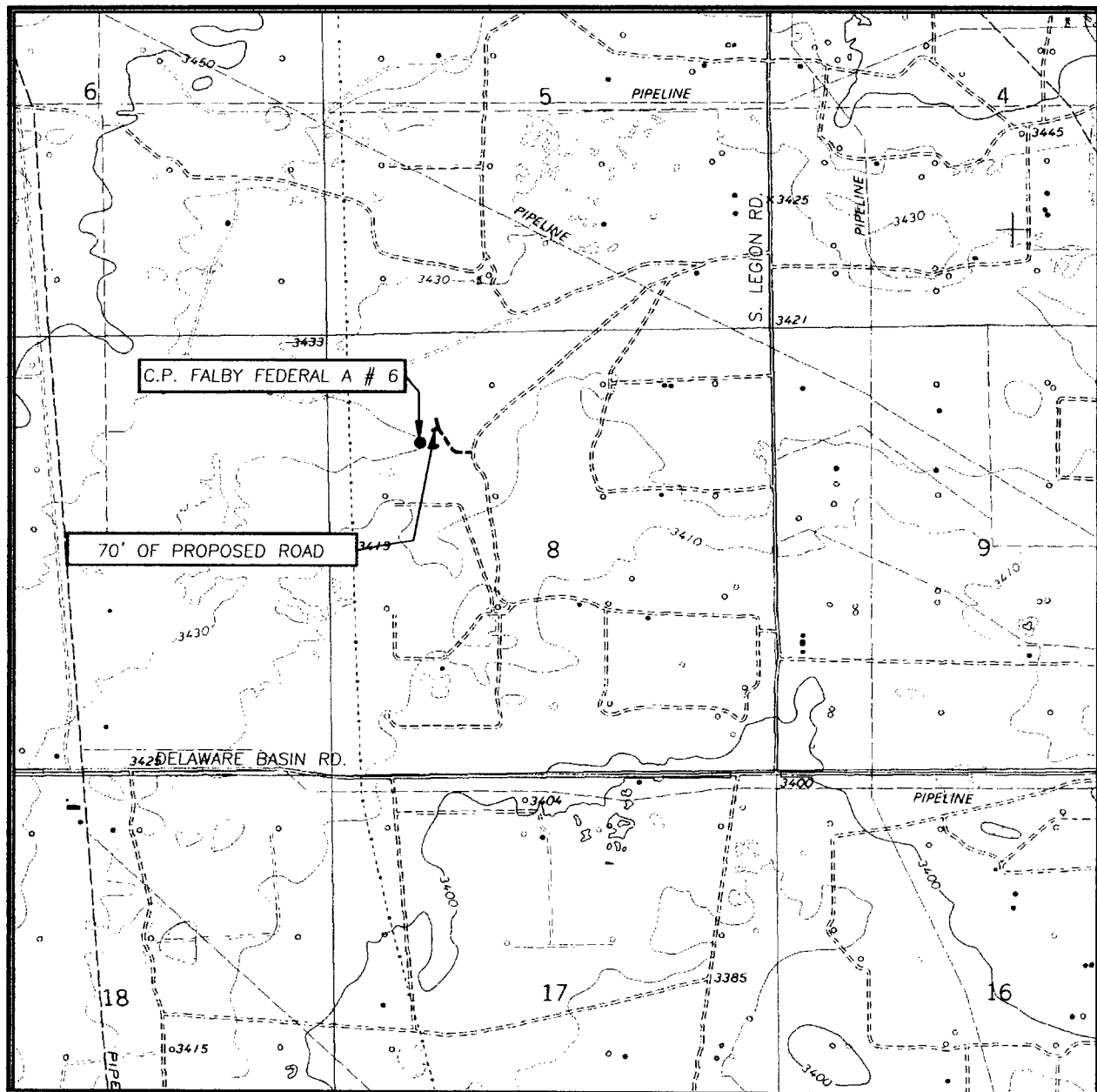


SCALE: 1" = 2 MILES

SEC. 8 TWP. 22-S RGE. 37-E  
 SURVEY N.M.P.M.  
 COUNTY LEA STATE NEW MEXICO  
 DESCRIPTION 1310' FNL & 1100' FWL  
 ELEVATION 3429'  
 OPERATOR CHEVRON U.S.A. INC.  
 LEASE C.P. FALBY FEDERAL A



# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:  
EUNICE, N.M. - 10'

SEC. 8 TWP. 22-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

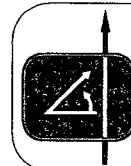
DESCRIPTION 1310' FNL & 1100' FWL

ELEVATION 3429'

OPERATOR CHEVRON U.S.A. INC.

LEASE C.P. FALBY FEDERAL A

U.S.G.S. TOPOGRAPHIC MAP  
EUNICE, N.M.



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

**District I**  
1625 N. French Dr., Hobbs, NM 88240

**District II**  
1301 W. Grand Avenue, Artesia, NM 88210

**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410

**District IV**  
1220 South St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised June 10, 2003

**OIL CONSERVATION DIVISION**

1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit to Appropriate District Office

**Exhibit 3.1**

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number	<sup>2</sup> Pool Code 50350	<sup>3</sup> Pool Name Penrose Skelly; Grayburg
<sup>4</sup> Property Code	<sup>5</sup> Property Name C.P. Falby A Federal	<sup>6</sup> Well Number 6
<sup>7</sup> OGRID No.	<sup>8</sup> Operator Name Chevron U.S.A., Inc.	<sup>9</sup> Elevation 3428

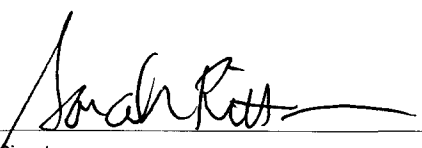
<sup>10</sup> Surface Location

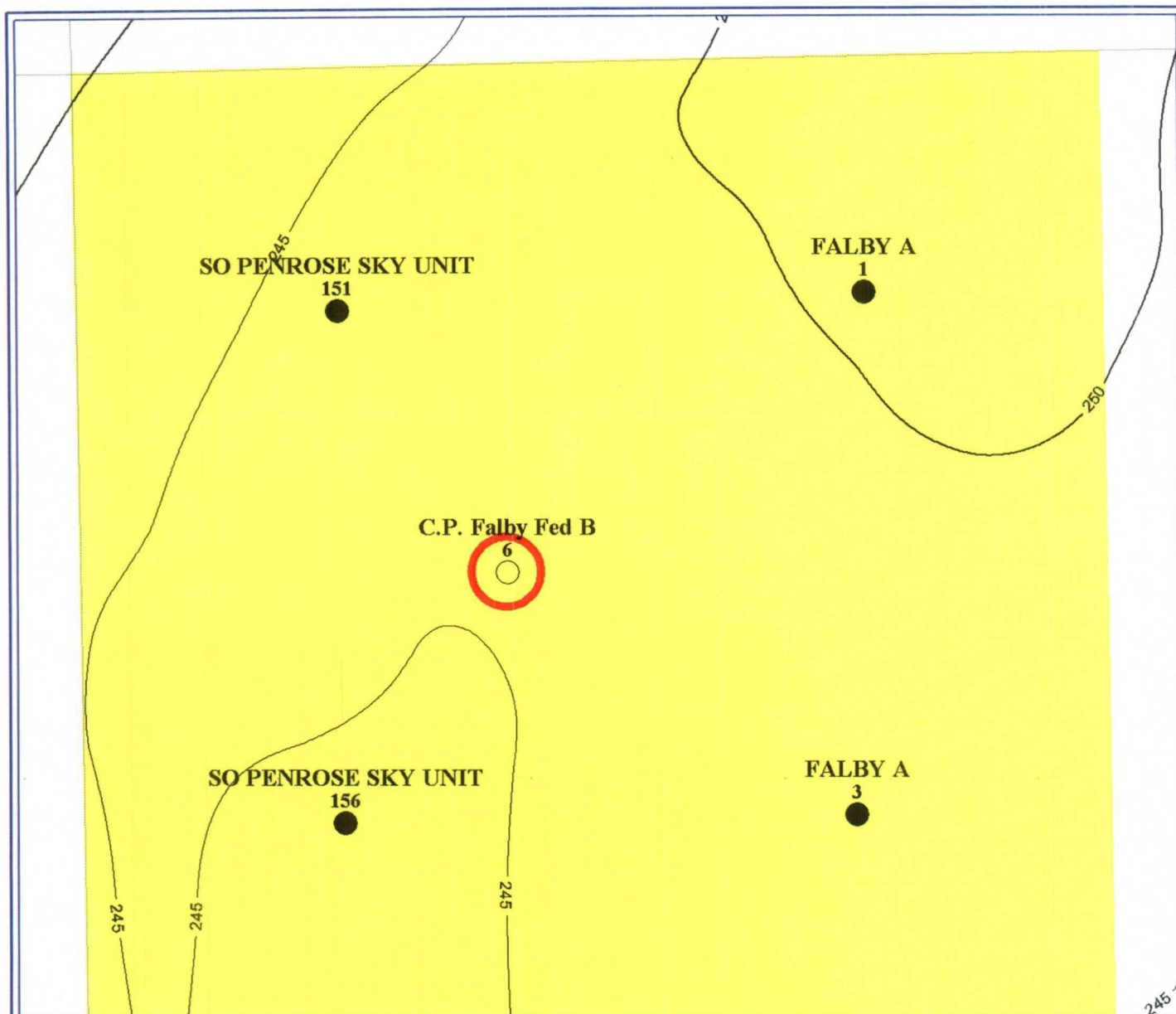
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	8	22S	37E		1310	North	1100	West	Lea

<sup>11</sup> 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
<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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

<sup>16</sup> 40-acre proration unit 1310' 151 1100'	C.P. Falby A Federal Lease	<sup>17</sup> <b>OPERATOR CERTIFICATION</b> <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>  Signature Sarah C. Rittenhouse Printed Name Geologist Title November 2, 2006
		<sup>18</sup> <b>SURVEYOR CERTIFICATION</b> <i>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.</i> Signature and Seal of Professional Surveyor:  Certificate Number



PETRA 11/6/2006 1:03:33 PM

**Chevron U.S.A. Inc.**

## EXHIBIT 4

PENROSE-SKELLY FIELD FALBY A #6

Sec. 8, T22S-37E, Lea CO. New Mexico

Grayburg New Pay CI=5.1[Gr<40, Por>6%]

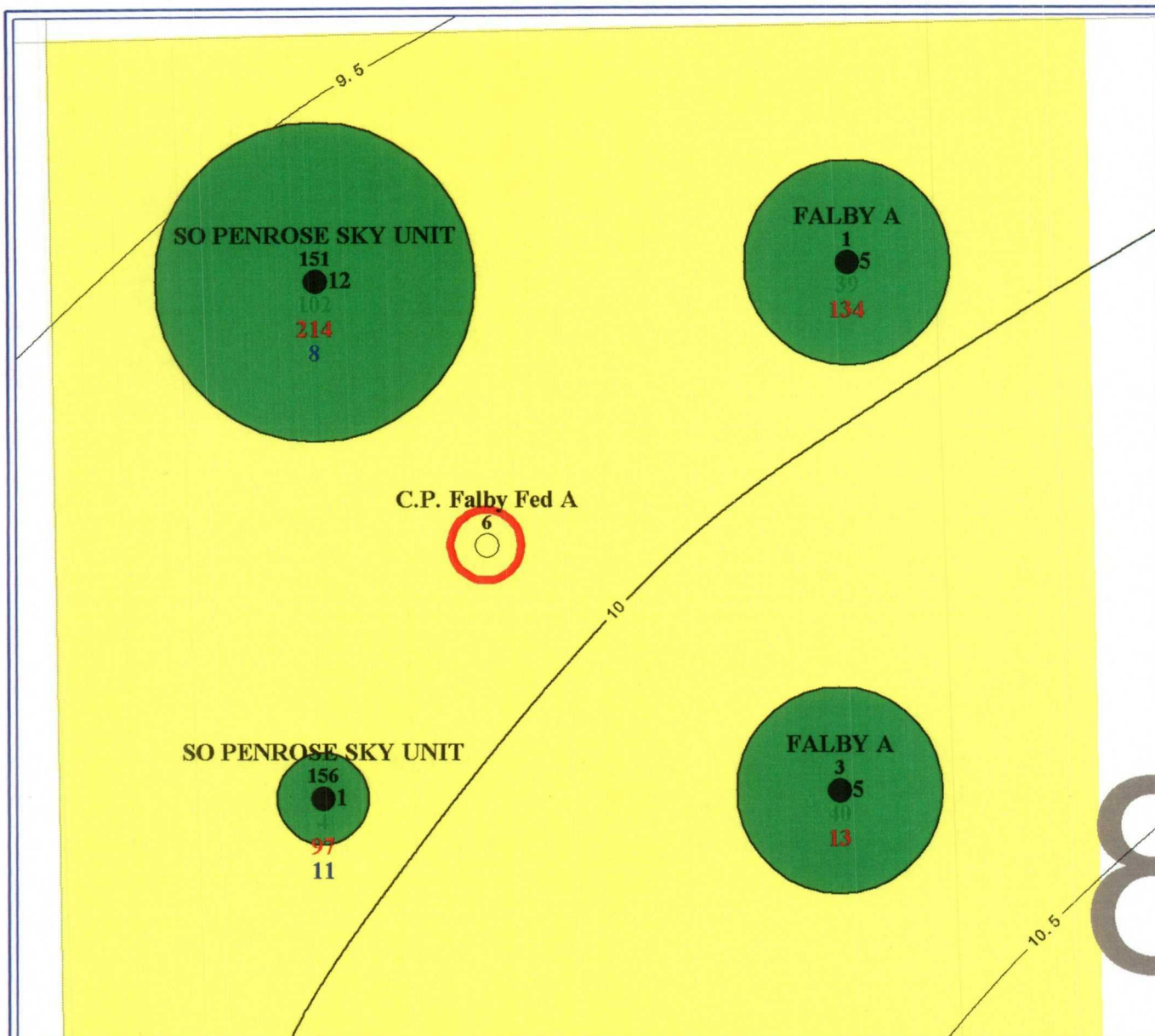


### POSTED WELL DATA

Well Name  
Well Number



November 6, 2006



PETRA 11/6/2006 3:25:19 PM

## Chevron U.S.A. Inc.

### EXHIBIT 5

PENROSE-SKELLY FIELD C.P. FALBY FED A #6

Sec. 8, T22S-37E, Lea CO. New Mexico

Grayburg HCPV CI=0.5 & EUR - Drainage

#### POSTED WELL DATA

Well Name  
Well Number

● SRLF\_PENROSE\_SKELLY - DRAINAGE\_ZONE

SRLF\_PENROSE\_SKELLY - GRAYBURG\_CUM\_OIL[SRLF] (MBO)  
SRLF\_PENROSE\_SKELLY - GRAYBURG\_CUM\_GAS[SRLF] (MMCF)  
SRLF\_PENROSE\_SKELLY - GRAYBURG\_CUM\_WATER[SRLF] (MBO)



November 6, 2006