

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

New Mexico Oil Conservation Division, District  
1625 N. French Drive  
Hobbs, NM 88240

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

ConocoPhillips Company

3a. Address

4001 Penbrook Street Odessa TX 79762

3b. Phone No. (include area code)

(432)368-1368

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Section 13, T-20-S, R-37-E, Unit Ltr G  
1980 FNL & 1980 FEL

5. Lease Serial No.

NM 2512

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

SEMU Permian #79

9. API Well No.

30-025-06082

10. Field and Pool, or Exploratory Area

Eumont: Yates, Seven Rvrs, Queen

11. County or Parish, State

Lea  
NM

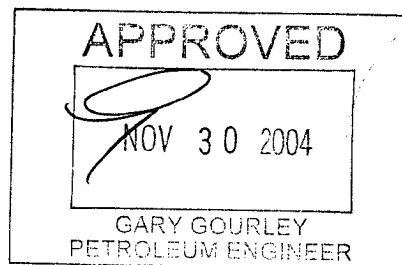
**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/ Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

This well is currently an injection well TA'd in the Skaggs Grayburg pool. ConocoPhillips recently submitted paperwork to plug and abandon this well. Upon further evaluation, ConocoPhillips proposes to recompleate this well to the Penrose using the attached procedure. The SEMU # 42 is currently producing in this same zone.

OPER. OGRD NO. 217817  
PROPERTY NO. 31449 SUBJECT TO  
POOL CODE 22800 LIKE APPROVAL  
EFF. DATE \_\_\_\_\_ BY NMOCD  
API NO. 30-025-06082



RECEIVED  
Hobbs  
OCD

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

Kay Maddox

Title

Regulatory Agent

Signature

Date

11/29/2004

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

*KM*

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

## 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 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-06082		Pool Code 22800	Pool Name Eumont: Yates, 7 Rivers Queen (Oil)
Property Code 03083 31449	Property Name Semu Permian		Well Number #79
OGRID No. 217817	Operator Name ConocoPhillips		Elevation 3541'

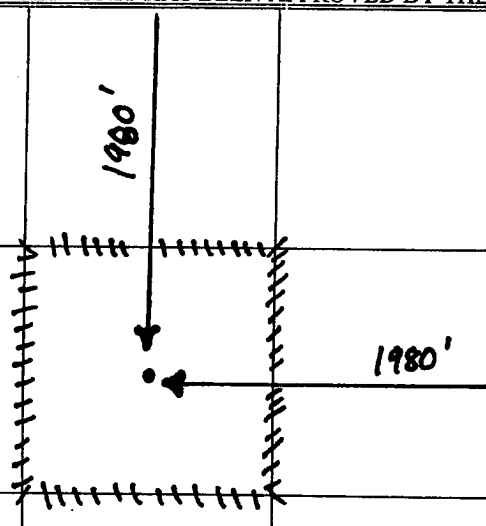
<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	13	20S	37E		1980	North	1980	East	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
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

<div data-bbox="99 1052 126 1073" data-label="Text">16</div> 	<div data-bbox="1120 1058 1148 1079" data-label="Text">17</div> <div data-bbox="1149 1068 1606 1102" data-label="Section-Header">OPERATOR CERTIFICATION</div> <div data-bbox="1102 1098 1612 1194" data-label="Text"> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> </div> <div data-bbox="1102 1194 1421 1281" data-label="Text"> <p><i>Kay Maddox</i></p> </div> <div data-bbox="1102 1260 1174 1278" data-label="Text">Signature</div> <div data-bbox="1096 1293 1252 1325" data-label="Text">Printed Name Kay Maddox</div> <div data-bbox="1096 1331 1302 1379" data-label="Text">Regulatory Agent</div> <div data-bbox="1096 1379 1458 1411" data-label="Text">mmaddox@conocophillips.com</div> <div data-bbox="1096 1409 1271 1430" data-label="Text">Title and E-mail Address</div> <div data-bbox="1102 1453 1239 1482" data-label="Text">11/12/2004</div> <div data-bbox="1096 1486 1141 1507" data-label="Text">Date</div>
	<div data-bbox="1096 1547 1568 1589" data-label="Section-Header">18 SURVEYOR CERTIFICATION</div> <div data-bbox="1096 1587 1586 1728" data-label="Text"> <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> </div> <div data-bbox="1096 1774 1219 1799" data-label="Text">Date of Survey</div> <div data-bbox="1096 1810 1440 1837" data-label="Text">Signature and Seal of Professional Surveyor:</div> <div data-bbox="1086 1988 1222 2011" data-label="Text">Certificate Number</div>



**SEMU Permian No. 79  
Penrose Recompletion Procedure  
October 27, 2004**

**Location:** 1980' FNL & 1980' FEL, Sec 13, T-20-S, R-37-E, Lea Co. New Mexico  
**AFE #:**  
**AFE Amount:**  
**Spud Date:** 12/00/52  
**P&A Date:** N/A  
**API Number:** 30025 - 06082  
**Existing Zone/Pool:** Grayburg / Skaggs Grayburg  
**Battery Destination:** Existing

**Original TD:** 3,896'  
**PBTD:** 3,693' (TA'd in Nov. 1994 with CIBP set at 3,693')  
**Tubing:** No Tubing In The Well

**KBE:** 3564'  
**GLE:** 3554'  
**KBM:** 10' above GL

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**Project Overview:**

The SEMU No. 79 well is currently temporarily abandoned with a CIBP at 3,693' (above the open hole Grayburg interval from 3,777' to 3,896'. The No. 79 well was originally drilled and completed as an open hole Grayburg producer in Nov. 1952. In May 1967 it was converted to an injection well in the Grayburg and in Dec 1993 it was shut-in and temporarily abandoned. The No. 79 well has remained as a shut-in TA'd injection well since Dec 1993.

This procedure will consist of drilling up the CIBP set at 3,693', setting another CIBP at 3,740', perforating and sand fracturing the Penrose interval from 3,660' to 3,700' and placing on beam pump. The Penrose is expected to produce 10 BOPD and 20 MCFGPD with approximately 50 BWPD.

The SEMU No. 42 well located ½ mile to the southwest of the No. 79 well (SE/4, SW/4 Sec 13) was recompleted to the Penrose in 1998 and is expected to recover approximately 15 to 20 MBO and 40 MMCFG. The No. 42 well is currently producing at 4 BOPD and 15 MCFGPD.

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**Casing**

Csg Size (in)	Depth (ft)	Wt (lb/ft)	Grade	Drift ID	Burst (psi)	Coll (psi)
8 5/8	0 - 268	28	C	8.017		
5 1/2	0 - 3,777	14	J-55	4.887	4270	3120

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### Current Grayburg Interval

Formation	Top Open Hole	Bottom Open Hole	Open Hole Interval
Grayburg	3777	3930	153

### Proposed Penrose Perforation Interval

Formation	Top Perf.	Bottom Perf.	Perforated Interval
Penrose	3660	3700	40

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### Penrose Artificial Lift Specs:

(See attached beam pump design inserted at the bottom of the procedure)

**PU Specs:** Proposed C114 – 133 – 54

**Electrical:** Unknown

**PU Controller:** Unknown

**Tubing:** Proposed 3720' of 2 3/8", J-55

**Rod String:** Proposed 3720' or 3/4", Class "C" Rods.

**Rod Pump:** Proposed 20-125-RHBC 18-0-00 Type "A" (Corrosive environment with gas interference)

**Stroke Length:** Proposed 54"

**PU Speed:** Proposed 7 SPM

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### Well Control Requirements: (Assumed To Contain H2S )

**Well Control:** Well Control equipment and procedures will be in accordance with the ConocoPhillips Well Control Manual, Second Edition, Revision Two, dated August 1994.

**Well Category:** Since 9.0 ppg kill fluid will be used throughout the procedure the well is not anticipated to flow at any time during the operation. A dynamic head procedure will be used to maintain control of the well during tripping operations. This well is to be considered a **Category 1** well. **Category 1** wells require one untested barrier, which will be the hydrostatic head of the kill fluid.

**BOPE Class 1:** For operations the MPSP for this well is estimated to be between 500 to 1000 PSIG. A **Class 1 BOP** stack is required. The actual stack will consist of a hydraulic operated 5M PSIG BOP stack with a hydril on top of tubing rams with a set of blind rams on bottom. NU shop tested BOP stack on top of companion flange. Test as per SOP

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### Penrose Recompletion Procedure:

**Note:** All depths referenced to 10' RKB. Insure all pulling unit anchors have been tested.

1. MI and RU pulling unit with reverse unit and drill out package.
2. NU 5 M PSIG WP hydraulic operated BOPE consisting of a set of 2 7/8" tubing rams and a set of blind rams on bottom and test to 250/5000 PSIG as per SOP.
3. PU 2 7/8" N-80 workstring with 4 3/4" bit and collars and TIH to drill out the CIBP set at 3,693'. After drilling out the CIBP continue in to the 5 1/2 shoe at 3777'. TOOH.

4. PU 4 ¾" bit and casing scrapers for 5 ½", 14 ppg casing and TIH to the shoe at 3777'. TOOH.
5. PU 5 ½" CIBP and TIH to set at 3770'. PU a couple of feet and load the casing with packer fluid containing a CI and biocide. Pressure test to 500 PSIG for 30 minutes. If a leak occurs, attempt to locate the leaking interval by using a packer and plug. Consult with engineering to determine if a casing inspection log is warranted.
6. If the casing holds pressure, pull up to 3702' and spot 500 gals of 15% HCL across the proposed Penrose zone. TOOH with the tubing laying down the 2 7/8" workstring. Change out the tubing pipe rams from 2 7/8" to 3 ½" rams and test to 250/5000 PSIG as per SOP.
7. RU Schlumberger electric line services. Install lubricator and pressure test to 1,000 PSIG against the blind rams. RIH with GR/CCL and 4" OD HEGS non-ported casing guns loaded 2 SPF in 120 degree phasing to perforate the following Penrose intervals. **Note: Correlate the perforating gun using a GR and the open hole logs dated Nov 1952.** The gun charge is a 22.7-gram charge to provide 0.42" perforation ID hole with 21" of penetration.

	<u>Interval</u>	<u>NEP</u>	<u>Shots</u>
<b>Penrose</b>	3660' to 3700'	40'	82 Holes

- 8.
9. PU 3 ½" N-80 workstring with a CS1 10 M treating packer, or equivalent. Hydro-test each stand to 6,000 PSIG while tripping. TIH and space out to set the packer at an approximate depth of 3600' (2 joints above the top perforation).
10. RU Schlumberger treating services. Install 10 M PSIG WP frac valve on the tubing. Install treating line with nitrogen actuated relief valve. Test the treating line to 6000 PSIG and set the relief valve at 4000 PSIG. Lay a staked relief line from the casing to an open frac tank. Leave the casing relief line open throughout the treatment. Pump the acid breakdown as per the attached Schlumberger recommendation. Pump the treatment as follows at design rate of 3 - 5 BPM dropping 100, 1.3 SG, 7/8" ball sealers throughout the spearhead breakdown treatment. Do not exceed 3500 PSIG.

<b>TREATING LINE TEST PRESSURE:</b> A minimum 1000 psig over MATP	<b>6000</b>	<b>PSIG</b>
<b>MAXIMUM ALLOWABLE WORKING PRESSURE:</b> Based on weakest component in system. Burst pressure of 5 1/2" casing.	<b>4200</b>	<b>PSIG</b>
<b>NITROGEN POP OFF SET PRESSURE:</b> Relief pressure set at the lesser of : 300 psig less than 90% MAWP or, 300 psig over MATP	<b>3800</b>	<b>PSIG</b>
<b>MAXIMUM ALLOWABLE TREATING PRESSURE:</b> If reached, human action required.	<b>3500</b>	<b>PSIG</b>
<b>MAXIMUM ANTICIPATED TREATING PRESSURE:</b>	<b>3000</b>	<b>PSIG</b>

#### Spearhead Acid Breakdown Treatment:

- Load tubing and initialize breakdown with 20 bbls of 2% KCL slick water
- Pump 2000 gals of 15% NEFE HCL acid at 3 – 5 BPM containing 100 1.3 SG, 7/8" RCN ball sealers.
- Displace breakdown with 32 bbls of 2% KCL slick water.

- Surge balls off perforatons.

**Sand Fracture Treatment: (This Frac Design & Treating Pressues & Rates Will Change After Modeling Work)**

- Load tubing and pump 4,000 gals (95 bbls) YF130ST pad at 20 BPM
  - Pump 4,000 gals (95 bbls) YF130ST fluid with 0.3 ppg 100 mesh sand at 20 BPM
  - Pump 6,000 gals (143 bbls) YF130ST pad at 20 BPM
  - Pump 2,000 gals (48 bbls) YF130ST fluid with 2.0 ppg 16/30 Brady Sand at 20 BPM
  - Pump 2,000 gals (48 bbls) YF125ST fluid with 3.0 ppg 16/30 Brady Sand at 20 BPM
  - Pump 2,500 gals (60 bbls) YF125ST fluid with 4.0 ppg 16/30 Brady Sand at 20 BPM
  - Pump 2,500 gals (60 bbls) YF125ST fluid with 5.0 ppg 16/30 Excel 6000 at 20 BPM
  - Pump 3,000 gals (71 bbls) YF125ST fluid with 6.0 ppg 16/30 Excel 6000 at 20 BPM
  - Flush with 1,315 gals (31 bbls) WF110 fluid at 20 BPM
  - Shut down and record 5, 10 and 15 minute leakoff pressures.
8. RD Schlumberger pumping services. Leave the well shut-in a minuium of 12 hours. Flow back the well until it dies.
  9. Release the packer and TOOH laying down the 3 1/2" tubing and packer. Change out the tubing pipe rams from 3 1/2" rams to 2 7/8" rams and test to 250/5000 PSIG as per SOP.
  10. PU 4 3/4" bit on 2 7/8" workstring and TIH to clean out resin coated sand to the CIBP set at 3770'. Spot packer fluid with a biocide in the rat hole. TOOH with bit laying down the workstring. Change out the tubing pipe rams from 3 1/2" rams to 2 3/8" rams and test to 250/5000 PSIG as per SOP.
  11. TIH with approximately 3,740' of 2 3/8", J-55 production tubing with the open ended SN on bottom of the tubing and a 5 1/2" TAC. The bottom joint to be polylinned. Space the tubing out to set the seating nipple at approximately 3,740' (or 40' below the bottom Penrose perforation with the TAC at approximately 3600' (60' above the top Penrose perforation).
  12. ND the BOP stack and install the B-1 adapter flange. Pump corrosion inhibitor down the tubing to coat the rods and pump as they are run in the hole. PU standard strainer nipple on the bottom of the 20-125-RHBC 20-6-00 Standard Type "A" pump on 3/4" Class "C" rod string and RIH to place on beam pump. (See attached Penrose Beam Pump Design. RD and move off.
  13. Notify Champion prior to placing the well on production. As soon as the well is started have it placed on scheduled CI truck treatments. **Schedule a backside scale squeeze as soon as the fluid level is pumped off.**
  14. Operator to submit a change of status form for new production. Report daily well tests and fluid levels to the Midland office for 30 days or until it pumps off and the production Load tubing and initial