

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-101  
May 27, 2004

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

Submit to appropriate District Office

☐ AMENDED REPORT

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

<sup>1</sup> Operator Name and Address Chesapeake Operating, Inc. P.O. Box 18496 Oklahoma City, OK 74154-0496		<sup>2</sup> OGRID Number 147179
<sup>3</sup> Property Code 301478	<sup>5</sup> Property Name E.W. Walden	<sup>4</sup> API Number 30 025-22983
<sup>6</sup> Well No. 8		
<sup>7</sup> Proposed Pool 1 Eumont; Yates-7-Rvrs-Qn Oil		<sup>8</sup> Proposed Pool 2

**7 Surface Location**

UL or lot no. K	Section 15	Township 22 S	Range 37E	Lot Idn	Feet from the 2280	North/South line South	Feet from the 1980	East/Westline West	County Lea
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**8 Proposed 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/Westline	County
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**Additional Well Information**

<sup>11</sup> Work Type Code Plug Back	<sup>12</sup> Well Type Code Oil	<sup>13</sup> Cable/Rotary	<sup>14</sup> Lease Type Code Fee	<sup>15</sup> Ground Level Elevation 3397'
<sup>16</sup> Multiple No	<sup>17</sup> Proposed Depth 4102'/PBD-3600'	<sup>18</sup> Formation Penrose	<sup>19</sup> Contractor TBD	<sup>20</sup> Spud Date 05/01/2008
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> milstuck Clay <input type="checkbox"/> Pit Volume, _____ bbls Drilling Method: _____				
Closed-Loop System <input checked="" type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

**21 Proposed Casing and Cement Program**

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12 1/4"	8 5/8"	24#	344'	265	Circulated
7 7/8"	5 1/2"	14#	4102'	500	2302'

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary. Please find the attached recompletion to the Penrose Sands of the Queen formation. Chesapeake respectfully request to move a rig on this well ASAP.

**Permit Expires 2 Years From Approval  
Date Unless Drilling Underway**

*Plug back*

<sup>23</sup> 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 <input checked="" type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .		<b>OIL CONSERVATION DIVISION</b>	
Printed name: Christian Combs		Approved by:	
Title: Manager-Reg. S. Division		Title: PETROLEUM ENGINEER	
E-mail Address: christian.combs@chk.com		Approval Date: APR 30 2008	
Date: 04/29/2005		Expiration Date: _____	
Phone: (405) 767-4703		Conditions of Approval Attached <input type="checkbox"/>	

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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 October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

APJ Number 30-025-22983		Pool Code 22800	Pool Name Eumont; Yates-7 Rvrs-Qn-
Property Code 301478	Property Name E.W. Walden		Well Number 8
OGRID No. 147179	Operator Name Chesapeake Operating, Inc.		Elevation 3397'

<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
K	15	22S	37E		2280	South	1980	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
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.

<sup>16</sup> 	<sup>17</sup> 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 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.	
	Signature CHRISTIAN C. COMOS	Date 4-30-08
	Printed Name	
	<sup>18</sup> 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.	
Date of Survey		
Signature and Seal of Professional Surveyor: Please refer to original plat attached.		
Certificate Number		

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator <b>ANADARKO PRODUCTION COMPANY</b>		Lessee <b>E. W. WALDEN</b>		Well No. <b>8</b>
Unit Letter <b>K</b>	Section <b>15</b>	Township <b>22 SOUTH</b>	Range <b>37 EAST</b>	County <b>LEA</b>
Actual Footage Location of Well: <b>2280</b> feet from the <b>SOUTH</b> line and <b>1980</b> feet from the <b>WEST</b> line				
Ground Level Elev. <b>3397'</b>	Producing Formation <b>Grayburg</b>	Pool <b>Penrose-Skelly</b>	Dedicated Acreage: <b>40</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

	<p align="center"><b>CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p>
	<p>Name <u>John W. West</u></p>
	<p>Position <b>District Superintendent</b></p>
	<p>Company <b>Anadarko Production Co.</b></p>
	<p>Date <b>1/24/69</b></p>
	<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 knowledge and belief.</p>
	<p>Date Surveyed <b>DECEMBER 9, 1968</b></p>
	<p>Registered Professional Engineer and/or Land Surveyor <i>John W. West</i></p>
	<p>Certificate No. <b>676</b></p>



E. W. Walden #8  
Penrose Re-Completion  
Lea County, New Mexico

Location: Section 15, 22S-37E, 2280 FSL & 1980 FWL

Production

Casing: 5 1/2" 14# J-55 0-4,102', ID=5.012", Drift=4.887", Burst=3,120#

PBTD/TD: 4,093' 4,102'

Current Perfs: Grayburg 3,772'-3,910'

Procedure

Hold Tailgate Safety meeting prior to beginning work each morning and as required for specific operations.

1. Prep location. Check anchors and clean area for workover.
2. Rack and tally 137 joints of 2-7/8" N-80 Workstring.
3. MIRU PU rig. ND WH. NU BOP. POH w/ tubing

Determine where the hole in the casing is located

4. RIH w/ RBP, PKR, and SN on 2-7/8" WS. Find and isolate casing leak.
5. POOH w/ PKR and RBP.
6. Set CBP @ 50' below casing hole.
7. RIH w/ 5-1/2" cmt retainer @ 50' above casing hole.
8. RIH w/ stinger on 2-7/8" WS. Sting in to cmt retainer.
9. RU Service Company. Establish injection rate. Mix and pump cmt as per recommendation. Circulate to surface if possible.
10. POOH w/ stinger and 2-7/8" WS. RIH w/ drill bit and drill collars and drill out cement retainer and drill down to CBP.
11. Pressure test casing leak to 500#. Continue drilling out CBP and chase to bottom.
12. POOH w/ bit and 2-7/8" WS.

Perforating and Frac'ing

13. RU wireline unit. RIH w/ gauge ring and junk basket to PBTD @ 4,093'. RIH and set CBP @ 3,600'.

14. RIH and perforate Penrose as follows:

Penrose	3,476' – 3,484'	8'	4 SPF	90° Phasing	32 holes
Penrose	3,470' – 3,473'	3'	4 SPF	90° Phasing	12 holes
Penrose	3,449' – 3,462'	13'	4 SPF	90° Phasing	52 holes
Totals		24'			96 holes

Correlate to attached log. RDMO wireline.

15. TIH w/ 2-7/8" workstring and treating packer to 3,600' and test. Breakdown and acidized the Penrose perfs with 2,500 gals 15% NEFE acid @ 5-6 bpm, dropping 150 – 7/8" ball sealers evenly throughout job. Displace acid to bottom perf. SI 30 minutes and swab test.

16. POH w/ packer.

17. RU frac service and frac Penrose perfs 3,449' – 3,484' (96 holes) with 60,000# 20/40 sand. Frac design/pump schedule will be provided separately once finalized. Record ISIP-5-10-15 min pressures.

18. Unset packer and TOH with 2-7/8" work string and packer.

19. PU bit and work string and TIH to DO plug set at 3,600' and clean out to CIBP (4,093'). Circulate hole clean. TOH.

20. PU and RIH with tbg and packer to 3,600' and set. Swab well to determine productivity. Once sand production is not a concern, unset packer and TOH. LD work string.

21. TIH with production tubing and SN. Set seat nipple at 3,960' (below perfs).

22. ND BOP. NU WH. TIH with pump and rods. Fill tubing and space out pump accordingly. Verify pump action. Place well on test. *Note: Rod design to follow this procedure.*

23. RDMO workover rig. Clean location.

### Current Wellbore Schematic

E W WALDEN 8

Field: PENROSE SKELLY  
County: LEA  
State: NEW MEXICO  
Elevation: GL 3,397.00 KB 3,408.00  
KB Height: 11.00

Location: SEC 15, 22S-37E, 2280 FSL & 1980 FWL

Spud Date: 1/28/1969  
Initial Compl. Date:  
API #: 3002522983  
CHK Property #: 891414  
1st Prod Date: 3/8/1969  
PBTD: Original Hole - 4093.0  
TD: 4,102.0

