

District I  
1625 N. French Dr.,  
District II  
1301 W. Grand Ave  
District III  
1000 Rio Brazos Rd.  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

# CEMENT TO COVER ALL OIL, GAS AND WATER BEARING ZONES

New Mexico  
and Natural Resources  
Regulatory Division  
1000 S. St. Francis Dr.  
Santa Fe, NM 87505

Form C-101  
May 27, 2004

Submit to appropriate District Office

☐ AMENDED REPORT

## APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUG BACK, OR ADD A ZONE

<sup>1</sup> Operator Name and Address Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210		<sup>2</sup> OGRID Number 025575 <sup>3</sup> API Number 38-015-35370
<sup>5</sup> Property Code 20923	<sup>4</sup> Property Name Barbara 17 SE Com	<sup>6</sup> Well No. 20
<sup>9</sup> Proposed Pool 1 Boyd Morrow Gas		<sup>10</sup> Proposed Pool 2

### <sup>7</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
O	17	19S	25E	O	660'	South	1980'	East	Eddy

### <sup>8</sup> 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/West line	County

### Additional Well Information

<sup>11</sup> Work Type Code PB	<sup>12</sup> Well Type Code XG	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Code P	<sup>15</sup> Ground Level Elevation 3519'
<sup>16</sup> Multiple N	<sup>17</sup> Proposed Depth 9650'	<sup>18</sup> Formation Morrow	<sup>19</sup> Contractor Not Determined	<sup>20</sup> Spud Date ASAP
Depth to Groundwater 50' or more		Distance from nearest fresh water well More than 1000'		Distance from nearest surface water 1000' or more
Pit: Liner: Synthetic XX 12 mils thick Clay <input type="checkbox"/> Pit Volume: _____ bbls Drilling Method: Closed-Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input checked="" type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

### <sup>21</sup> 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" - K-55	23#	1200'	835 sx circ	Surface
7 7/8"	5 1/2" - L-55	17#	9650'	950 sx	6000' TOC

<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.

Yates Petroleum Corporation proposes to drill and test the Morrow and intermediate formations. Approximately 400' of surface casing will be set and cement circulated. If commercial, production casing will be run and cemented back to approximately 6000', perforated and stimulated as needed for production.

**MUD PROGRAM:** 0-4700' FW; 4700'-7400' Cut Brine; 7400'-TD Cut Brine/Starch.

**BOPE PROGRAM:** a 3000# BOPE will be installed on 8 5/8" casing and tested daily.

**H2S is not anticipated.**

<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 NMOC guidelines ☐, a general permit ☒, or an (attached) alternative OCD approved plan ☐.

Signature:

Printed name: Cy Cowan

Title: Regulatory Agent

E-mail Address: cy@ypcnm.com

Date: 12/29/06

Phone: (505) 748-4372

### OIL CONSERVATION DIVISION

Approved by:

BRYAN G. ARANT

DISTRICT II GEOLOGIST

Title:

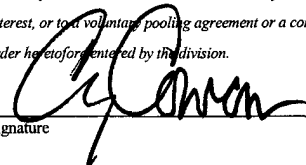
Approval Date: JAN 18 2007

Expiration Date: JAN 18 2008

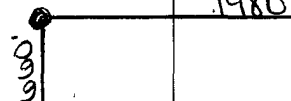
Conditions of Appr

**NOTIFY OCD OF SPUD & TIME  
TO WITNESS CEMENTING OF  
SURFACE CASING**

PREVIOUSLY APPROVED

<div>16</div>				<div>17</div> <div><b>OPERATOR CERTIFICATION</b></div> <div>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.</div> <div><div></div><div>January 16, 2007</div></div> <div>Signature<div>Date</div></div> <div>Cy Cowan<div>Printed Name</div></div> <div>Regulatory Agent<div>Title</div></div>
<div>NM-1372</div>	<div></div>	<div>NM-1372</div>	<div></div>	<div>18</div> <div><b>SURVEYOR CERTIFICATION</b></div> <div>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.</div> <div>Date of Survey</div> <div>Signature and Seal of Professional Surveyor:</div> <div>REFER TO ORIGINAL PLAT</div> <div>Certificate Number</div>

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## District I

1625 N. French Dr., Hobbs, NM 88240

## District II

811 South First, Artesia, NM 88210

## District III

1000 Rio Brazos Rd., Aztec, NM 87410

## District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural ResourcesOIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505Form C-102  
Revised March 17, 1999Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-29392		Pool Code 72800		Pool Name Boyd Morrow Gas	
Property Code		Property Name Barbara 17 SE Com.			Well Number 20
OGRID No. 025575		Operator Name Yates Petroleum Corporation			Elevation

## 10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	17	19-S	25-E		660'	South	1980'	East	Eddy

## 11 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 320		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

	<b>17 OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief  Signature <i>Ken Beardemphl</i> Printed Name Ken Beardemphl Title Landman Date February 4, 2000
	<b>18 SURVEYOR CERTIFICATION</b> 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:  REFER TO ORIGINAL PLAT  Certificate Number

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Brazos Rd., Artesia, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-  
Revised February 21, 1  
Instructions on 1  
Submit to Appropriate District O:  
State Lease - 4 Co  
Fee Lease - 3 Co

☐ AMENDED REP

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30-015-29392	'Pool Code 72800 15472/	'Pool Name Dagger Draw Upper Penn, North / Cemetery Morrow
'Property Code 013755	'Property Name BARBARA 17 SE COM	'Well Number 20
'OGED No. 005073	'Operator Name CONOCO INC.	'Elevation 3519'

<sup>10</sup> Surface Location

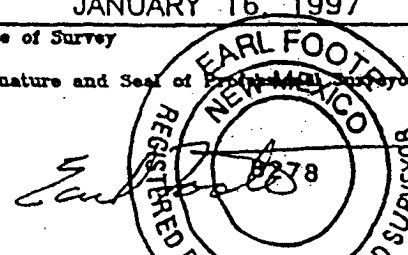
UL or lot no.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County
0	17	19-S	25-E		660	SOUTH	1980	EAST	EDDY

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County

'Dedicated Acres 160/320	'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

16					17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature <u>Jerry W. Hoover</u> Printed Name <u>JERRY W. HOOVER</u> Title <u>SR. CONSERVATION COORDINATOR</u> Date <u>1-21-97</u>
18 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 <u>JANUARY 16, 1997</u> Signature and Seal of <u>Earl Foot</u> 					

Cemetery Morrow

Dagger Draw Upper Penn, North

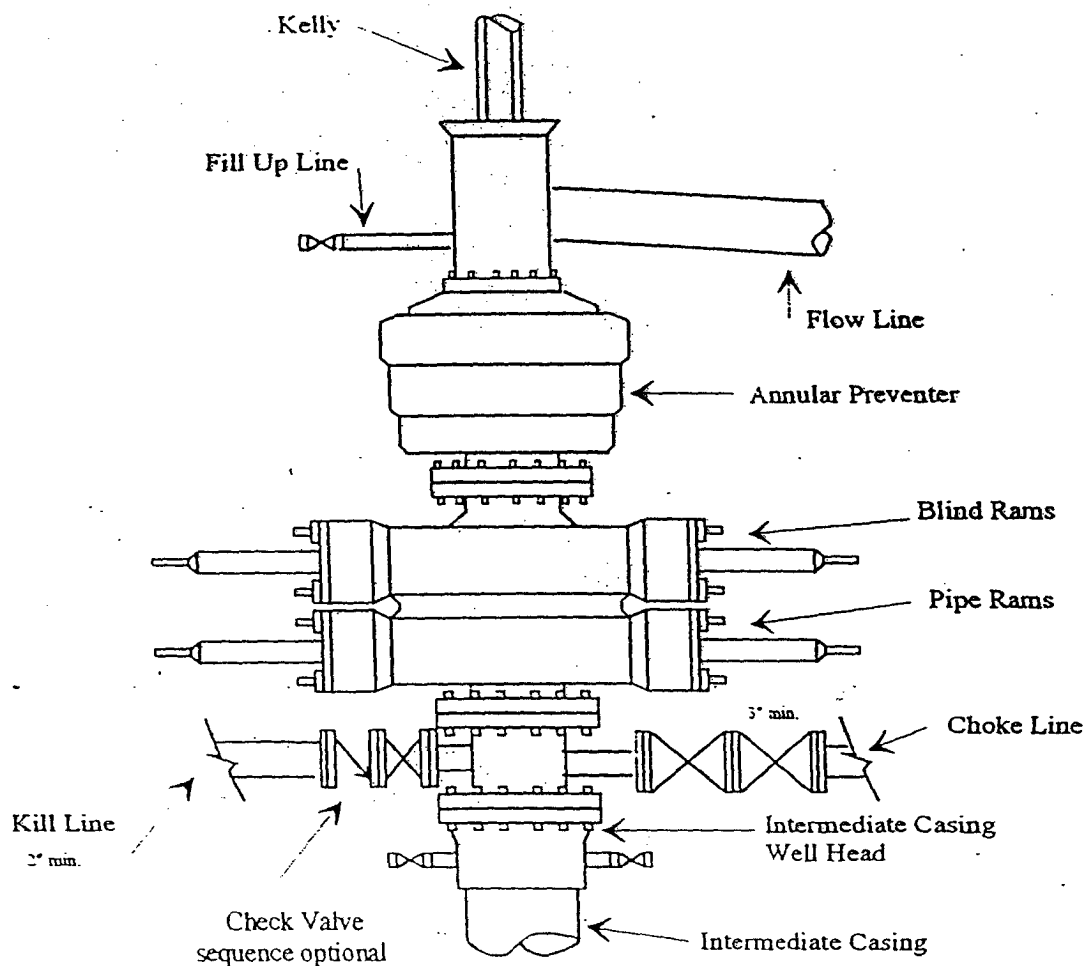
1980



# Yates Petroleum Corporation

BOP-3

## Typical 3,000 psi Pressure System Schematic Annular with Double Ram Preventer Stack



Typical 3,000 psi choke manifold assembly with at least these minimum features

