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

Date:

10/23/2006

Phone:

(505)748-4289

State of New Mexico Energy Minerals and Natural Resources

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

		Form C-101
/	21223242	May 27, 2004
/o\	nit to ap	`6.\
2001		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
1	00T_2006N	DED REPORT
516	RECEIVED	30

1220 S. St. Francis Dr., Santa Fe, NM 87505 APPLICATIONFOR PERMIT TO DRILL, RE-ENTER. DEEPEN. PLUGB OperatorName and Address 015445 MYCO INDUSTRIES, INC P.O. BOX 840, ARTESIA, NM 88211 3 PropertyCode <sup>5</sup> Property Name TAG 12 FEE COM #2H 10 ProposedPool 2 9 Proposed Pool 1 No Ifcomp **Surface Location** North/South line Section Township Range Lot Idn Feet from the Feet from the East/Westline County III. or lot no 18**S** 21E 1980' **NORTH** 660 **EAST EDDY** H 12 <sup>8</sup> Proposed Bottom Hole Location If Different From Surface Lot Idn Feet from the North/South line Feet from the East/Westline UL or lot no. Section Township Range County **NORTH** WEST **EDDY** 1980 F 12 18S 21E 660' Additional Well Information 11 Work Type Code 12 Well Type Code 13 Cable/Rotary 14 Lease Type Code 15 Ground Level Elevation p 4042' G R N 18 Formation 17 Proposed Depth 19 Contractor 20 Spud Date 16 Multiple 5200' WOLFCAMP 05/01/2007 Depth to Groundwater Distance from nearest fresh water well Distance from nearest surfacewater > 300' Pit Volume: 10100bls DrillingMethod: Liner: Synthetic X 12 milsthick Clay Fresh Water X Brine Diesel/OI-based Gas/Air Closed-Loop System **Proposed Casing and Cement Program** Casing Size Hole Size Casing weight/foot Setting Depth Sacks of Cement Estimated TOC 12-1/4" 8-5/8" CIRCULATE 32# / J-55 1050' 400 SXS 7-7/8" 5-1/2" 17# / N-80 9250' CIRCULATE 1200 SXS NOTE: SET 40' OF 20" CONDUCTOR PIPE & CIRCULATE | CEMENT <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. NOTIFY NMOCD OF SPUD AND WITNESS CMT SURFACE CASING. INSTALL 3000# DOUBLE-RAM B.O.P. AND TEST DAILY. DRILL PILOT HOLE TO 5200'. PLUG BACK AND DRILL A 3400' LATERAL DUE WEST PER NMOCD RULE #111. ATTACHED: PERMIT INFORMATION, C-102, GENERAL PIT PERMIT, H2S CONTINGENCY PLAN. \*NOTE: DETAILED WELL SURVEY PROFILE TO FOLLOW. <sup>23</sup> I hereby certify that the information given above is true and complete to the best OIL CONSERVATION DIVISION of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines , a general permit , or Approved by: BRYAN G. ARRANT an (attached) alternative OCD-approved plan DISTRICT II GEOLOGIST Printed name: A.N. MUNCY, PELS Title: OCT 2 5 2006 OPERATIONS/EXPLORATION MGR Title: Approval Date: Expiration LACT 2 5 2007 E-mail Address: anmuncy@mycoinc.com

Conditions of Approval Attached

#### State of New Mexico

DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR.

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III

DISTRICT IV

Santa Fe, New Mexico 87505 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV 1280 S. ST. FRANCIS DR., SANTA FR, NW 87	WELL LOCATION AND	ACREAGE DEDIC	ATION PLAT	☐ AMENDED REPORT	
API Number	Pool Code		Pool Name		
	97489	Wild cat	Wolfcamp	GAS	
Property Code	Proj	Property Name			
	TAG 12	FEE COM		2H	
OGRID No.	Operator Name			Elevation	
	MYCO IND	USTRIES, INC.		4042'	

#### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Н	12	18-S	21-E		1980	NORTH	660	EAST	EDDY

#### Bottom Hole Location If Different From Surface

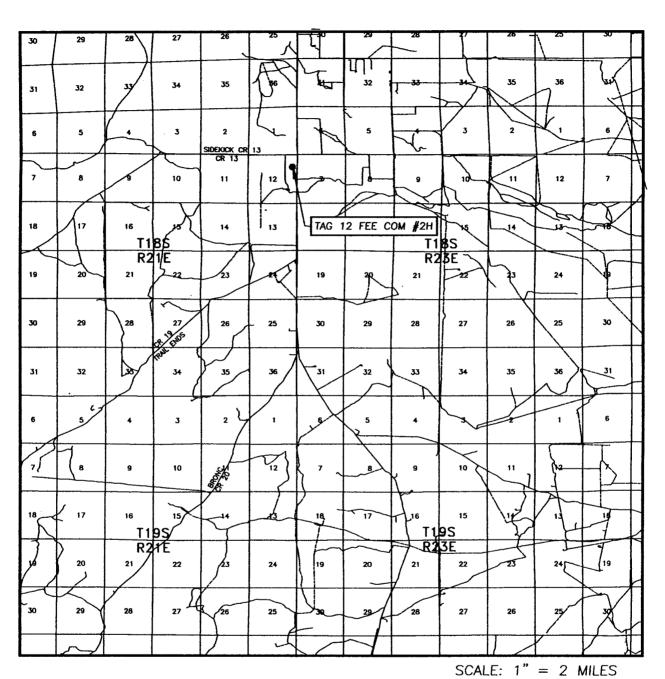
UL or lot No.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County
Ε	12	18-S	21-E		1980	NORTH	660	WEST	EDDY
Dedicated Acres	s Joint o	r Infill Co	nsolidation	Code Or	der No.				
	Í								•

#### 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

OPERATOR CERTIFICATION  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.  (INIMUMY, PELS 10.23.06
Signature Date ANMUNU Printed Name
SURVEYOR CERTIFICATION
I bereby 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.
OCTOBER 7, 2006  Date Surveyed JR  Signature & Sect / 9 Company  Date Surveyed JR  Professional Surveyor 10/18 10 C  O6.11.1536  Certificate No. GARY. RIPSON 3239

SECTION 12, TOWNSHIP 18 S	COUTH, RANGE 21 EAST, N.M.P.M.,
	600'
0	o' NORTH OFFSET 042.4'
OFFSET	FEE COM #2H  150' EAST  O G OFFSET  4040.8' 2.764042° N 04.740978° W
C	SOUTH OFFSET O41.0'
	600'
DIRECTIONS TO LOCATION	
FROM FROM THE INTERSECTION OF CO. RD. #12 (ARMSTRONG RD.) AND CO. RD. #13 (SIDEKICK RD.) GO SOUTH ON CO. RD. #12 APPROX. 0.4 MILES. THIS LOCATION IS APPROX. 660 FEET WEST.	100 0 100 200 Feet  Scale: 1"=100'
	MYCO INDUSTRIES, INC.
PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY	TAG 12 FEE COM #2H  LOCATED 1980 FEET FROM THE NORTH LINE  AND 660 FEET FROM THE EAST LINE OF SECTION 12,  TOWNSHIP 18 SOUTH, RANGE 21 EAST, N.M.P.M.,  EDDY COUNTY, NEW MEXICO.
JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240	Survey Date:         10/07/06         Sheet         1 of         1 Sheets           W.O. Number:         06.11.1536         Dr By: J.R.         Rev 1:
(505) 393-3117	W.O. Number: 06.11.1536 Dr By: J.R. Rev 1:  Date: 10/13/06 Disk: CD#6 06111536 Scale:1"=100'

# VICINITY MAP



SEC. 12 TWP. 18-S RGE. 21-E

SURVEY N.M.P.M.

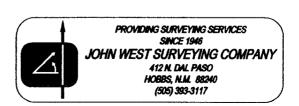
COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 1980' FNL & 660' FEL

ELEVATION 4042'

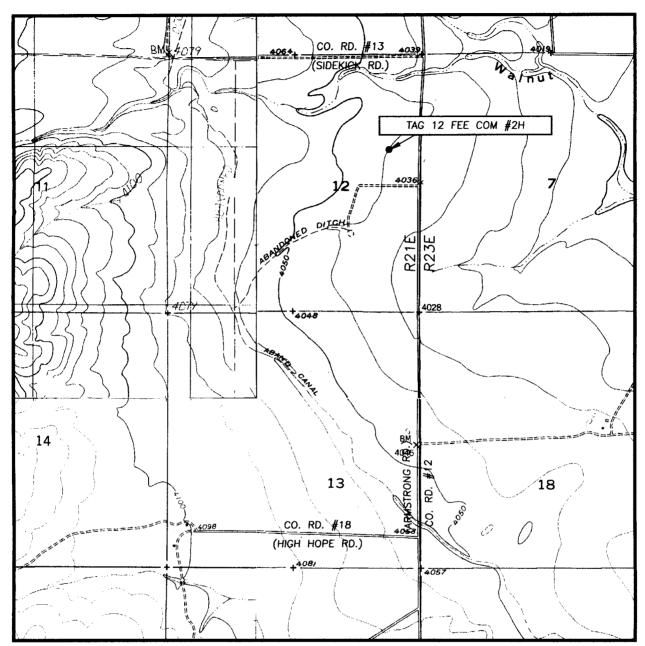
OPERATOR MYCO INDUSTRIES, INC.

LEASE TAG 12 FEE COM





# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

SEC. 12 TWP. 18-S RGE. 21-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 1980' FNL & 660' FEL

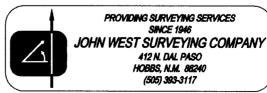
ELEVATION 4042'

OPERATOR MYCO INDUSTRIES, INC.

LEASE TAG 12 FEE COM

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

CONTOUR INTERVAL:
HOPE, N.M. – 10'
TEEL RANCH, N.M. – 20'
HOLT TANK, N.M. – 20'
ANTELOPE SINK, N.M. – 10'





### MYCO INDUSTRIES, INC.

Well Name: Tag 12 Fee Com #2H

Location:

SL

1980' FNL & 660' FEL, Section 12, T-18-S, R-21-E, Eddy Co, NM

BHL 1980' FNL & 660' FWL, Section 12, T-18-S, R-21-E, Eddy Co, NM

### **Casing Program:**

Casing	Setting	Hole	Casing	Casing	Casing	Desired
	Depth	Size	Size	Weight	Grade	TOC
Surface	1050'	12-1/4"	8-5/8"	32#	J-55	Surface
Production	9250'	7-7/8"	5-1/2"	17#	N-80	Surface

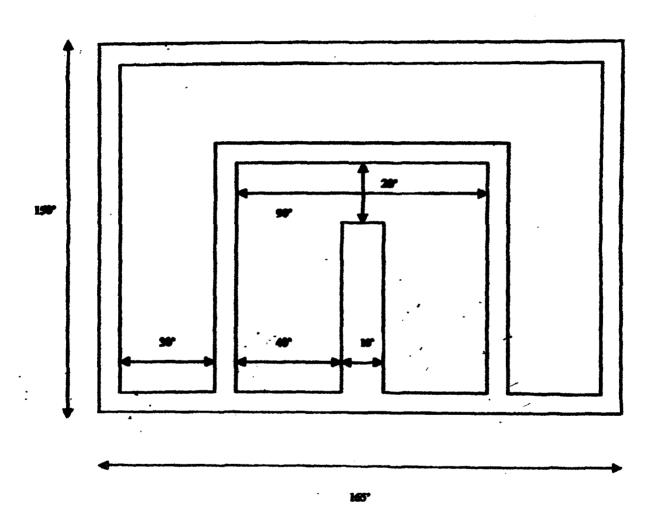
### **Cement Program:**

Depth	No. Sacks	Slurries:
1050'	150	Lead: Premium Plus + 2% CaCl <sub>2</sub> + 3% Econolite + ½ pps Flocele
	250	Tail: Premium Plus + 2% CaCl <sub>2</sub> + ½ pps Flocele
9250'	500	Lead: Interfill C + ¼ pps Flocele
	700	Tail: Premium Cement + 100% Acid Soluable Additive + 0.6%
		Halad®-344 + 0.8% Econolite + 0.2% HR-55

### **Mud Program:**

Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0-1050'	Fresh-Gel	8.6-8.8	28-34	N/c
1050-4400'	Cut Brine	8.8-9.2	28-34	N/c
4400-5200'	Cut Brine	8.8-9.2	28-34	10-15
4468-9250'	Polymer (Lateral)	9.0-9.4	40-45	10-20

# Double Horseshoe Reserve Pit Design



Apprezimate Inside Reserve Volume: 4500 bids Apprezimate Outside Reserve Volume: 5000 bids



## MYCO INDUSTRIES, INC.

### **OIL PRODUCERS**

POST OFFICE BOX 840 ARTESIA, NEW MEXICO 88211-0840 Phone (505) 748-1471

October 23, 2006

New Mexico Oil Convervation Division Bryan Arrant 1301 W. Grand Artesia, New Mexico 88210

Re:

Myco Industries, Inc. Tag 12 Fee Com #2H H2S Contingency Plan

Dear Mr. Arrant:

Sources at Myco Industries, Inc. have relayed information to me that they believe there will not be enough H2S found from the surface through the Wolfcamp Formation to meet the OCD's minimum requirements for the submission of a contingency plan per Rule 118.

Please note that I have enclosed our Contingency Plan for this well based on a remote chance that Rule 118 might become applicable.

Thank you,

MYCO INDUSTRIES, INC.

alhiminus

A.N. Muncy, PELS

Operations/Engineering Manager

ANM:hp Enclosure

# Myco Industries, Inc.

423 W. Main Street Artesia, NM 88210

# Hydrogen Sulfide (H<sub>2</sub>S) Contingency Plan

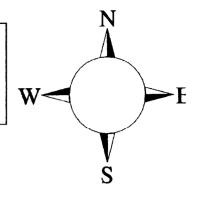
For

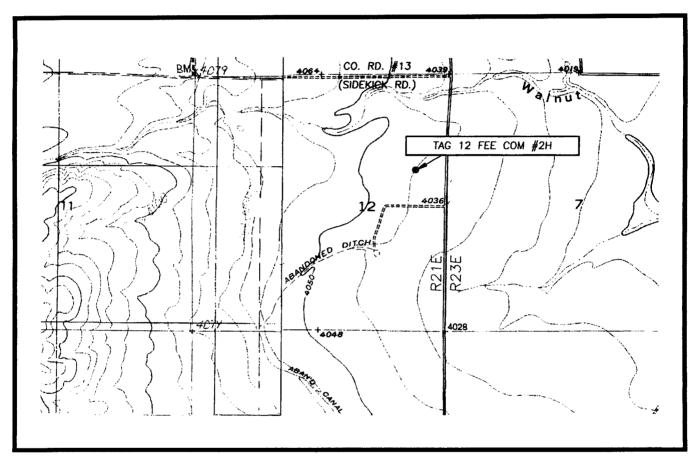
Tag 12 Fee Com #2H

1980' FNL & 660' FEL (Surface) 1980' FNL & 660' FWL (Bottom-Hole) Sec-12, T-18S, R-21E Eddy County NM

# Tag 12 Fee Com #2H Location

This is an open drilling site. H<sub>2</sub>S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H<sub>2</sub>S, including warning signs, wind indicators and H<sub>2</sub>S monitor.





### **Emergency Procedures**

In the case of a release of gas containing H<sub>2</sub>S, the first responder(s) must isolate the area and prevent entry by other persons into the 100 ppm ROE. Additionally the first responder(s) must evacuate any public places encompassed by the 100 ppm ROE. First responder(s) must take care not to injure themselves during this operation. Company and/or local officials must be contacted to aid in this operation. Evacuation of the public should be beyond the 100 ppm ROE.

All responders must have training in the detection of H<sub>2</sub>S, measures for protection against the gas, equipment used for protection and emergency response. Additionally, responders must be equipped with H<sub>2</sub>S monitors and air packs in order to control the release. Use the "buddy system' to ensure no injuries during the response.

### **Ignition of Gas Source**

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO<sub>2</sub>). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

### Characteristics of H<sub>2</sub>S and SO<sub>2</sub>

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentr- ation
Hydrogen Sulfide	H <sub>2</sub> S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air = 1	2 ppm	N/A	1000 ppm

#### **Contacting Authorities**

Myco personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Myco Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

## Myco Industries, Inc. Phone Numbers

Myco Office Nelson Muncy/Operations Engineering Manager.  Carlos Guerrero/Field Supervisor.  Artesia Answering Service (During non-office hours)  Agency Call List	(505) 748-4289 (505) 308-3502 (505) 746-7318 (505) 513.2492
Eddy County (505)	
Artesia State Police City Police Sheriff's Office Ambulance	746-2703 746-9888
Fire Department	746-2701 746-2122
Carlsbad State Police	885-2111 887-7551 911 885-2111 887-3798
New Mexico Emergency Response Commission (Santa Fe) 24 HR  New Mexico State Emergency Operations Center  National Emergency Response Center (Washington, DC)	(505) 827-9126(505) 476-9635
Other	
Boots & Coots IWC1-800-256-9688 or (281) 931-8884 Cudd Pressure Control(915) 699-0139 or (915) 563-3356 Halliburton(505) 746-2757 B. J. Services(505) 746-3569	
Flight For Life -4000 24th St, Lubbock, TX	(806) 747-8923 (505) 842-4433



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

20 December 2004

Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210

RE: General Plan

Dear Mr. Dolan:

The Artesia District of the Oil Conservation Division is in receipt of a General Plan (copy attached) submitted by Yates Petroleum Corporation dated 7 December, 2004. After review the Oil Conservation Division has accepted and approved the Plan. This plan shall be in effect as of 20 December, 2004 and will supersede the "General Plan" dated 14 April, 2004 submitted by Yates Petroleum Corporation.

Van Barton Field Rep. II MARTIN YATES, III 1912 - 1985 FRANK W. YATES 1936 - 1986



### 105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (505) 748-1471

S, P. YATES
CHAIRMAN OF THE BOARD
JOHN A. YATES
PRESIDENT
PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

Mr. Tim Gum Oil Conservation Division State of New Mexico 1301 West Grand Ave. Artesia, NM 88210

December 7, 2004

Re: General Plan

Drilling, Workover, and Blowdown Pit design and closure.

Dear Tim,

Yates Petroleum Corp. (Yates) appreciates your meeting with us on December 1, 2004 to help clarify some issues in connection with Rule 50 and the November 1, 2004 Pit and Below Grade Tank Guidelines.

As you know Yates submitted and received approval of a general plan for opening and closing of drilling and workover pits on April 15, 2004. In an effort to simplify the required paperwork, we would now like to modify that plan to include more detailed information.

For purpose of this plan Yates, et al (Yates) includes:

- 1. Yates Petroleum Corp.
- 2. Yates Drilling Company
- 3. Abo Petroleum Corp.
- 4. Myco Industries, Inc.

The modified plan is attached for your review and approval. Please contact me at 505-748-4181 if you have any questions or need further information.

Sincerel

Dan Dólañ

### Yates Petroleum Corp. et al

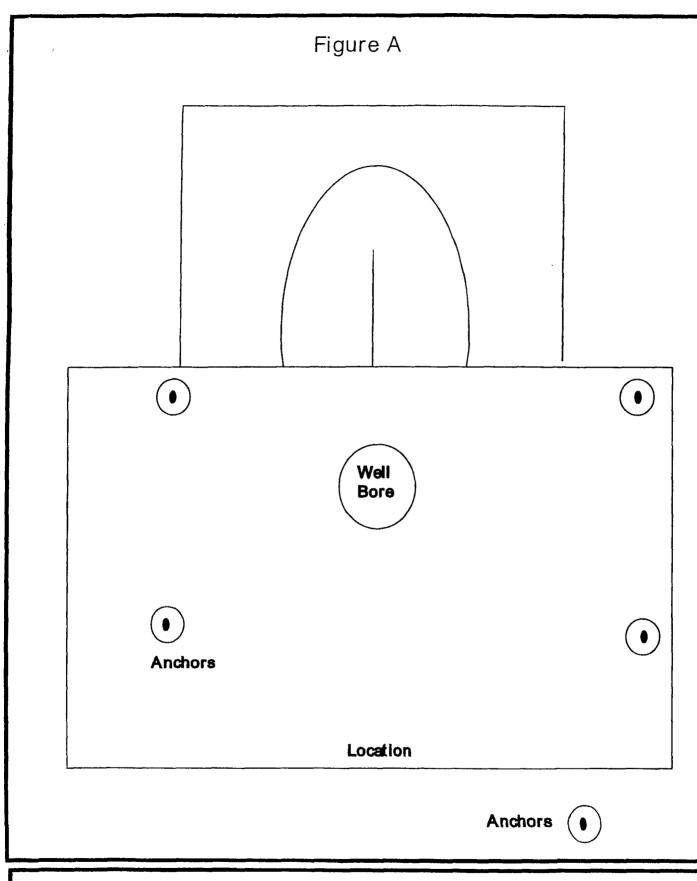
# General Plan Pit Permitting, Construction and Closure December 7, 2004

### 1. Pit Permitting and Opening -

- a. Application for the pit permit shall be made on the Application for Permit to Drill (APD). The APD will include the following:
  - i. Site Ranking.
  - ii. Reference to this "General Plan" approved by NMOCD.
  - iii. Description of the proposed disposal method as outlined below.
    - When deep trench burial is proposed, approval of the APD will constitute a permit for both the drilling pit and the encapsulation pit(s). A separate Form C-144 will not be required.
- b. All pits will be designed and constructed pursuant to Part II of November 1, 2004 Pit and Below Grade Tank Guidelines (Guidelines). Pits shall be constructed as depicted in attached Figures A, B, C or D based on site specific requirements.
- 2. <u>Pit Closure</u>—Pits will be closed based on site specific conditions pursuant to Part IV of Guidelines by one of the following methods:
  - a. <u>Excavation and removal</u>. Wastes will be excavated and disposed of at an off-site OCD-approved facility or location.
  - b. <u>Below Grade Encapsulation</u>. Encapsulation will be pursuant to Part IV.B.2 of Guidelines.
  - c. <u>Capping and Encapsulation Insitu</u>. Capping and encapsulation will be pursuant to Part IV.B.3(a) of Guidelines.
  - d. <u>Deep Trench Burial and Capping</u>. Deep trench burial and capping will be pursuant to Part IV.B.3(b) of Guidelines. Attached *Figures E*, F and G depict standard types of encapsulation pits utilized by Yates. Each encapsulation trench type is designed to hold 2000 cubic yards of drill cuttings.
  - e. <u>Exemption</u>: Yates may request an exemption on a site specific basis as provided for in 19.15.2.50 NMAC (Rule 50).

The proposed method for pit closure will be indicated on the APD as one of the above methods. Approval of the APD will constitute approval of the closure plan. No other closure plan will be submitted. Yates will notify OCD 48-hours prior to closure of pit and submit a C-144 when pit is closed.

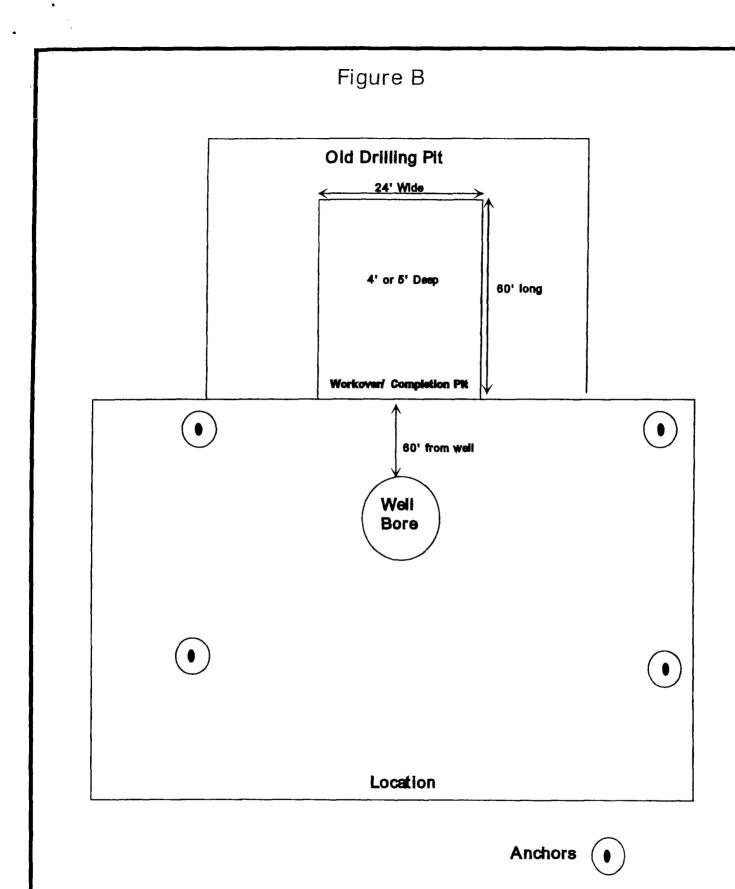
If, due to site specific conditions encountered during the course of operations, Yates proposes to change the method of closure, a request outlining the new plan will be submitted on a C-144 for OCD approval prior to closure.



## Yates Petroleum Standard Reserve Pit

All Reserve Pits are double horse shoe. Size varies with depth of well

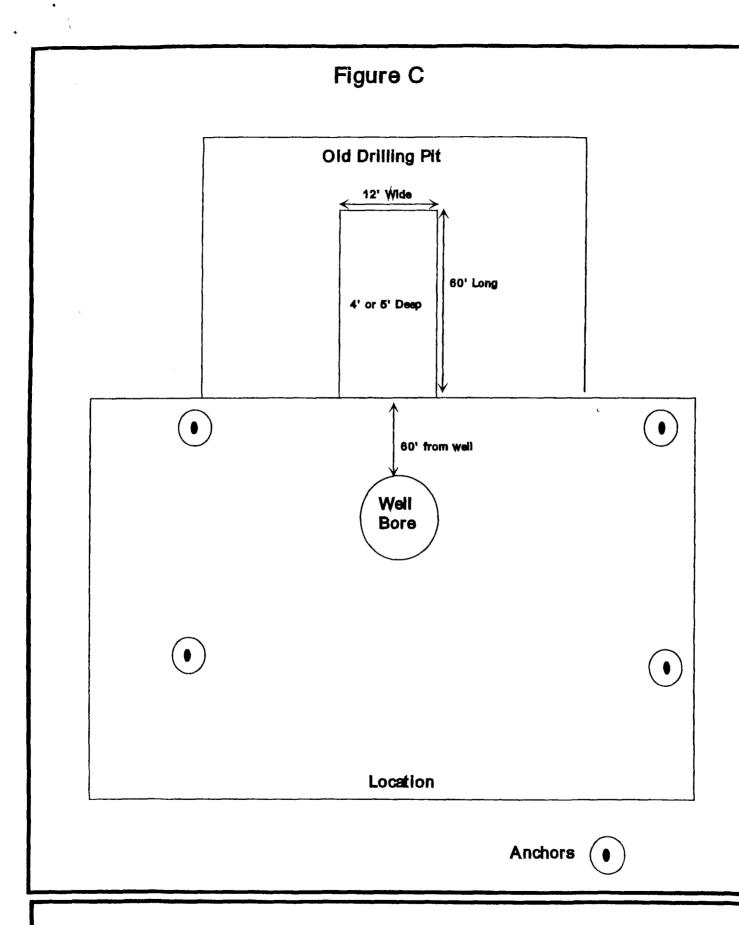




Yates Petroleum Workover/ Completion Pit Design

Built with Dozer

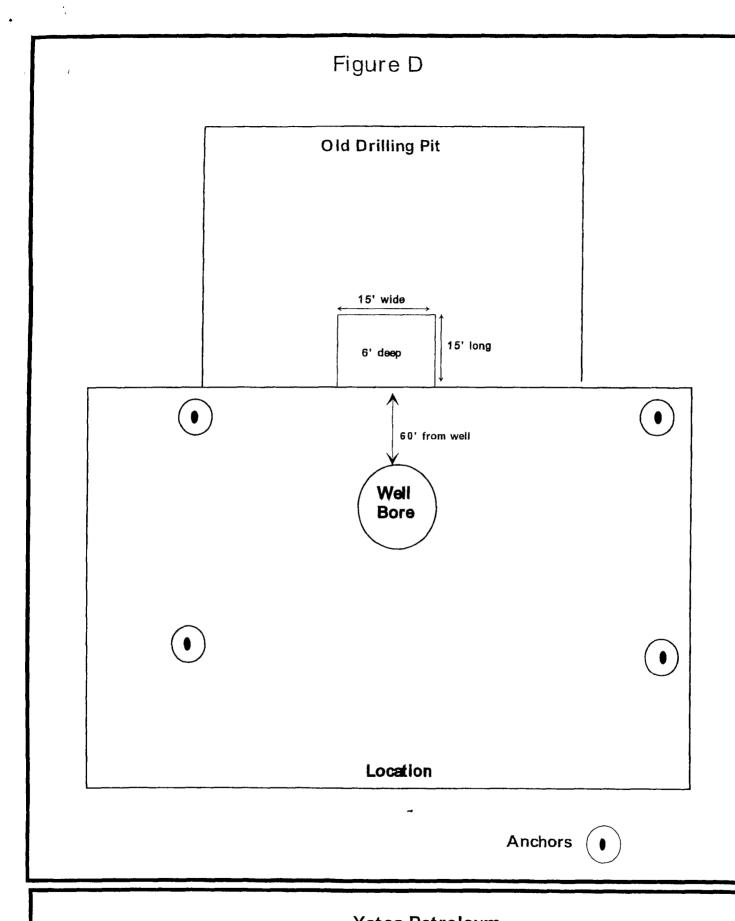




Yates Petroleum Workover/ Completion Pit Design

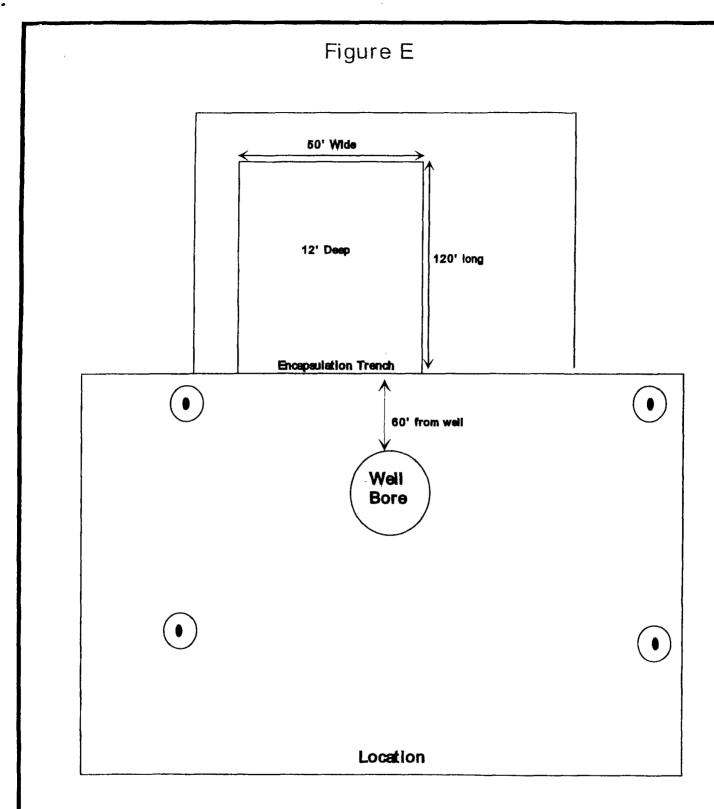
Built with Backhoe
12/8/04





Yates Petroleum Workover/ Completion Pit Design Built with Backhoe





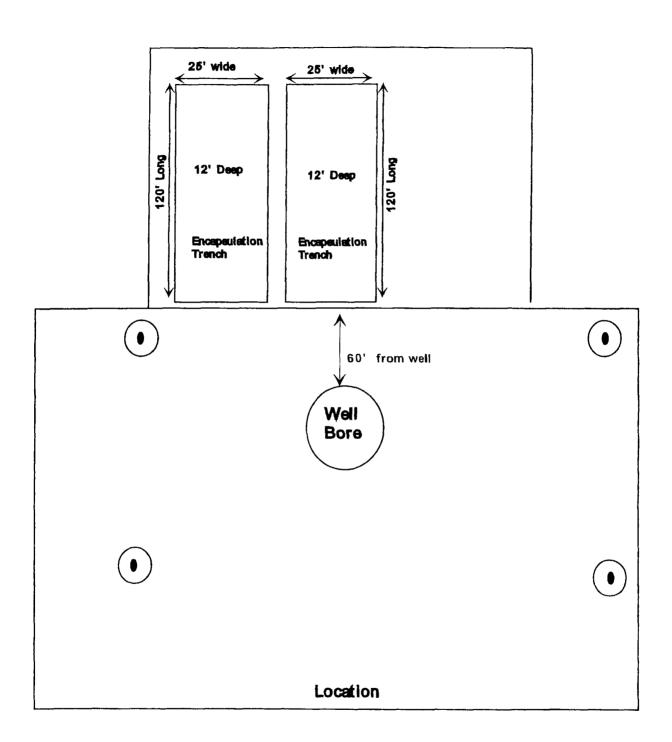
Anchors (



Yates Petroleum Deep Trench Encapsulation



Figure F



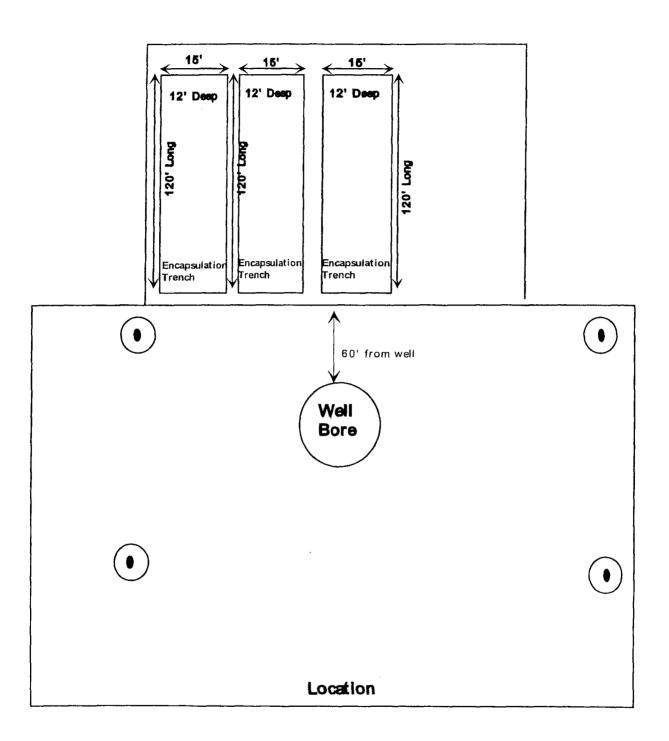
Anchors (



Yates Petroleum Deep Trench Encapsulation
Built with Backhoe



Figure G



Anchors (



Yates Petroleum Deep Trench Encapsulation





# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

4 January 2005

Mr. Dan Dolan Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210

RE: General Plan - John A. Yates Jr., Oil Producer

Dear Mr. Dolan:

The Artesia District of the Oil Conservation Division on 30 December, 2004 received a request for "John A. Yates Jr., Oil Producer" to be covered by the General Permit submitted by you on 20 December, 2004. This request is approved. John A. Yates Jr., Oil Producer will be added to the Yates Companies that are covered by the Plan.

Van Barton Field Rep. II MARTIN YATES, III \*1912 - 1985 FRANK W. YATES 1936 - 1986



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (505) 748-1471

S. P. YATES
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JOHN A. YATES
PRESIDENT
PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY

TREASURER

RECEIVED

DEC 30 2004

Mr. Van Barton Oil Conservation Division State of New Mexico 1301 West Grand Ave. Artesia, NM 88210

December 30, 2004

Re: General Plan

Drilling, Workover, and Blowdown Pit Design and closure.

Dear Van,

As you know Yates submitted and received approval of a general plan for opening and closing of drilling and workover pits on December 20, 2004, this was an amended plan, submitted for clarification and simplification of the original plan, approved by you on April 15, 2004.

We are requesting the addition of "John A. Yates Jr., Oil Producer", to the Yates Companies on the approved plan.

Please contact me at 505-748-4181 if you have any questions or need further information.

Sincerely.

Daniel W. Dolan CWC

Environmental Regulatory Agent