

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

Form C-144 CLEZ  
July 21, 2008

**For closed-loop systems that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, submit to the appropriate NMOCD District Office.**

## Closed-Loop System Permit or Closure Plan Application

*(that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)*

Type of action: ☒ Permit ☐ Closure

**Instructions:** Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form C-144.

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1. Operator: Yates Petroleum Corporation OGRID #: 025575  
Address: 105 South Fourth Street, Artesia, New Mexico 88210  
Facility or well name: Torpedo BOW State Com #1H  
API Number: 30-015-37495 OCD Permit Number: 209983  
U/L or Qtr/Qtr M Section 11 Township 25S Range 27E County: Eddy  
Center of Proposed Design: Latitude N 32.139169 Longitude W 104.168592 NAD: ☐ 1927 ☒ 1983  
Surface Owner: ☐ Federal ☒ State ☐ Private ☐ Tribal Trust or Indian Allotment

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NMOCD ARTESIA

2. ☒ **Closed-loop System:** Subsection H of 19.15.17.11 NMAC  
Operation: ☒ Drilling a new well ☐ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) ☐ P&A  
☐ Above Ground Steel Tanks or ☒ Haul-off Bins

3. **Signs:** Subsection C of 19.15.17.11 NMAC  
☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  
☒ Signed in compliance with 19.15.3.103 NMAC

4. **Closed-loop Systems Permit Application Attachment Checklist:** Subsection B of 19.15.17.9 NMAC  
**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  
☒ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  
☒ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  
☒ Closure Plan (Please complete Box 5) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC  
☐ Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_  
☐ Previously Approved Operating and Maintenance Plan API Number: \_\_\_\_\_

5. **Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:** (19.15.17.13.D NMAC)  
**Instructions:** Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name: <u>Gandy Marley</u>	Disposal Facility Permit Number: <u>NM-01-0019</u>
Disposal Facility Name: <u>CRI</u>	Disposal Facility Permit Number: <u>R-9166</u>
Disposal Facility Name: <u>Lea Land Farm</u>	Disposal Facility Permit Number: <u>WM-1-035</u>
Disposal Facility Name: <u>Sundance Services Inc</u>	Disposal Facility Permit Number: <u>NM-01-0003</u>

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations?  
☐ Yes (If yes, please provide the information below) ☒ No

Required for impacted areas which will not be used for future service and operations:

- ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC  
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

6  
**Operator Application Certification:**

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): Monti Sanders

Title: Land Regulatory Technician

Signature: *Monti Sanders*

Date: 12/29/09

e-mail address: montis@yatespetroleum.com

Telephone: 575-748-4244

7.  
**OCD Approval:** ☒ Permit Application (including closure plan) ☐ Closure Plan (only)

OCD Representative Signature: *Leuro R Dade*

Approval Date: 02/10/2010

Title: *DIST II Supervisor*

OCD Permit Number: 209983

8.  
**Closure Report (required within 60 days of closure completion):** Subsection K of 19.15.17.13 NMAC

*Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.*

☐ Closure Completion Date: \_\_\_\_\_

9.  
**Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:**

*Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.*

Disposal Facility Name: \_\_\_\_\_

Disposal Facility Permit Number: \_\_\_\_\_

Disposal Facility Name: \_\_\_\_\_

Disposal Facility Permit Number: \_\_\_\_\_

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No

*Required for impacted areas which will not be used for future service and operations:*

☐ Site Reclamation (Photo Documentation)

☐ Soil Backfilling and Cover Installation

☐ Re-vegetation Application Rates and Seeding Technique

10.  
**Operator Closure Certification:**

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

e-mail address: \_\_\_\_\_

Telephone: \_\_\_\_\_

# Yates Petroleum Corporation

## Closed Loop System

### Equipment Design Plan

Closed Loop System will consist of:

1 – double panel shale shaker

1 – (minimum ) Centrifuge, certain wells and flow rates may require 2 centrifuges

On certain wells, the Centrifuge will be replaced by a Clackco Settling Tank System

1 – minimum centrifugal pump to transfer fluids

2- 500 bbl. FW Tanks

1 – 500 bbl. BW Tank

1 – half round frac tank – 250 bbl. capacity as necessary to catch cement / excess mud returns generated during a cement job.

1 Set of rail cars / catch bins

Certain wells will use an ASC Auger Tank

### Operation Plan

All equipment will be inspected at least hourly by rig personnel and daily by contractors' personnel.

Any spills / leaks will be reported to YPC, NMOCD, and cleaned up without delay.

### Closure Plan

Drilling with Closed Loop System, haul off bins will be taken to Gandy Marley, Lea Land Farm, CRI or Sundance Services Inc.

### Contingency Casing Design

If hole conditions dictate, 7" casing will be set at 7,253' MD (6,980' TVD). A 6 1/8" hole will then be drilled to 11,395' MD (6,980' TVD) where 4 1/2" casing will be set and cemented with one stage up to dv tool. After completion procedures, the 4 1/2" casing will be cut and pulled at 6400'.

#### 2nd Intermediate

0 ft to 100 ft				Make up Torque ft-lbs			Total ft =
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
7 inches	26 #/ft	J-55	LT&C	3670	2750	4590	
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift			
4,320 psi	4,980 psi	367,000 #	415,000 #	6,151			

100 ft to 5,800 ft				Make up Torque ft-lbs			Total ft =
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
7 inches	23 #/ft	J-55	LT&C	3130	2350	3910	
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift			
3,270	4,360 psi	313,000 #	366,000 #	6,25			

5,800 ft to 7,253 ft				Make up Torque ft-lbs			Total ft =
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
7 inches	26 #/ft	J-55	LT&C	3670	2750	4590	
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift			
4,320 psi	4,980 psi	367,000 #	415,000 #	6,151			

Lead w/760sx Lite crete (YLD 2.66 Wt. 9.9) tail w/125sx PVL (YLD 1.41 Wt 13) TOC = Surface

#### Production

0 ft to 11,395 ft				Make up Torque ft-lbs			Total ft =
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
4.5 inches	11.6 #/ft	HCP-110	LT&C	3020	2270	3780	
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift			
8,650 psi	10,690 psi	279,000 #	367,000 #	3,875			

DV tool placed at approx. 6400' and cemented with one stage up to dv tool. After completion procedures, the 4 1/2" casing will be cut and pulled at 6400'.

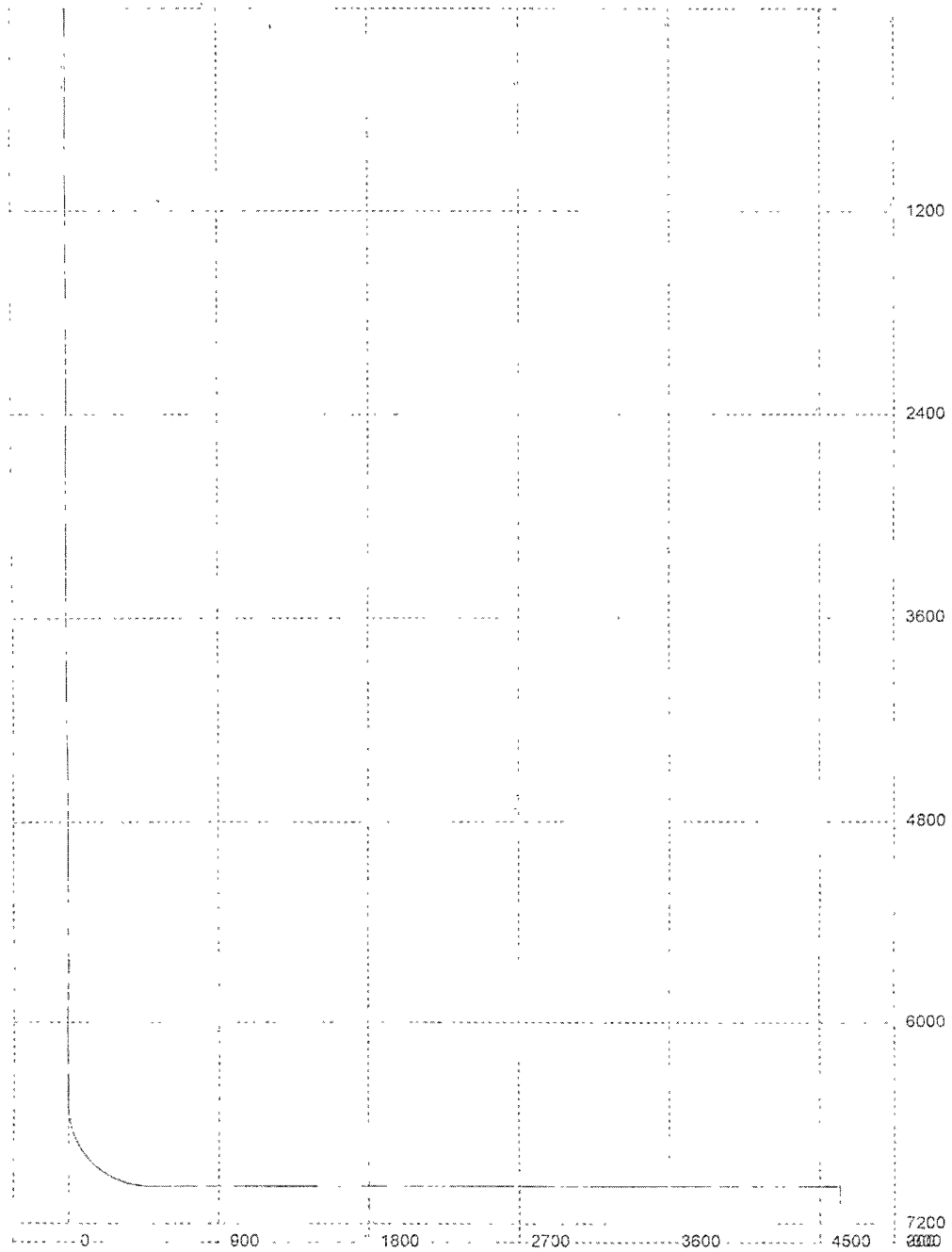
Cemented w/675sx PVL (YLD 1.41 Wt 13) TOC= 6400'

M.D.	Inclination	Azimuth	T.V.D.	N+/S-	E+/W-	D.L.S.	ToolFace	T.F. Ref [HS/GN]	
0	0	0	0	0	0	0			
520	0	0	520	0	0	0			CASTILLE
720	0	0	720	0	0	0			TOS
2,120	0	0	2,120	0	0	0			BOS
2,300	0	0	2,300	0	0	0			BELL CANYON
3,070	0	0	3,070	0	0	0			CHERRY CANYON
4,200	0	0	4,200	0	0	0			BRUSHY CANYON
5,550	0	0	5,550	0	0	0			BRUSHY CANYON MKR
5,820	0	0	5,820	0	0	0			BONE SPRINGS
6503	0	0	6503	0	0	12	90	GN	KOP
6525	2.64	90	6524.99	0	0.51	12	0	HS	
6550	5.64	90	6549.92	0	2.31	12	0	HS	
6575	8.64	90	6574.73	0	5.42	12	0	HS	
6600	11.64	90	6599.33	0	9.82	12	0	HS	
6625	14.64	90	6623.68	0	15.5	12	0	HS	
6650	17.64	90	6647.69	0	22.45	12	0	HS	
6675	20.64	90	6671.3	0	30.65	12	0	HS	
6700	23.64	90	6694.46	0	40.07	12	0	HS	
6725	26.64	90	6717.09	0	50.69	12	0	HS	
6750	29.64	90	6739.13	0	62.48	12	0	HS	
6775	32.64	90	6760.52	0	75.4	12	0	HS	
6800	35.64	90	6781.21	0	89.43	12	0	HS	
6825	38.64	90	6801.14	0	104.52	12	0	HS	
6850	41.64	90	6820.25	0	120.64	12	0	HS	
6875	44.64	90	6838.49	0	137.73	12	0	HS	
6900	47.64	90	6855.81	0	155.76	12	0	HS	
6925	50.64	90	6872.17	0	174.66	12	0	HS	
6950	53.64	90	6887.51	0	194.4	12	0	HS	
6975	56.64	90	6901.79	0	214.91	12	0	HS	
7000	59.64	90	6914.99	0	236.14	12	0	HS	
7010.1	60.85	90	6920	0	244.91	12	0	HS	FIRST BONE SPRINGS
7025	62.64	90	6927.05	0	258.03	12	0	HS	
7050	65.64	90	6937.96	0	280.53	12	0	HS	
7075	68.64	90	6947.67	0	303.56	12	0	HS	
7100	71.64	90	6956.16	0	327.07	12	0	HS	
7125	74.64	90	6963.41	0	350.99	12	0	HS	
7150	77.64	90	6969.4	0	375.26	12	0	HS	
7175	80.64	90	6974.11	0	399.81	12	0	HS	
7200	83.64	90	6977.53	0	424.57	12	0	HS	
7225	86.64	90	6979.64	0	449.48	12	0	HS	
7250	89.64	90	6980.46	0	474.47	12	0	HS	
7253.05	90.01	90	6980.47	0	477.52	12	0	HS	FBSG TARGET
11395.54	90.01	90	6980	0	4620	0			LATERAL TD

Pilot hole drilled vertically to 8500'. Well will be plugged back with 180' plug on bottom and 400'-500' kick off plug at approx. 6503' and directionally drilled at 12 degrees per 100' with a 8 3/4" hole to 7253' MD (6,980' TVD). If hole conditions dictate, 7" casing will be set. A 6 1/8" hole will then be drilled to 11,395' MD (6,980' TVD) where 4 1/2" casing will be set and cemented. If 7" is not set, then hole size will be reduced to 7 7/8" and drilled to 11,395' MD (6,980' TVD) where 5 1/2" casing will be set and cemented. Penetration point of producing zone will be encountered at 660' FSL and 808' FWL, 11-25S-27E. Deepest TVD in the well is 8500' in the pilot hole. Deepest TVD in the lateral will be 6980'.

# 3D<sup>s</sup> Directional Drilling Planner - 3D View

Company: Yates Petroleum Corporation  
Well: Torpedo BOX State Com. #1H



# 3D<sup>3</sup> Directional Drilling Planner - 3D View

Company: Yates Petroleum Corporation  
Well: Torpedo BOX State Com. #1H

