If earthen pits are used in well, an OCD pit permit must be obtained prior to pit construction.

2007

OUD-AKTESIA

ATS-07-582

Form 3160-3 (April 2004)

association with the drilling of this

FORM APPROVED OMB NO. 1004-0137 Expires: March 31,2007

(April 2004)		UCD-AITIE		OMB NO. 100	04-0137		
UNITED STAT	ES	RESUBMITTAL	. [Expires: March	31,2007		
DEPARTMENT OF THE	E INTERIOR		1 [Lease Serial No.			
BUREAU OF LAND MA	NAGEMENT		į.	NM-2886	64		
APPLICATION FOR PERMIT TO	DRILL OR F	REENTER	. [6. If Indian, Allottee or Trib	e Name		
	•	inlit Fct	ate				
		THE LUE		7. If Unit or CA Agreement,	, Name and No.		
a. Type of Work: X DRILL	n. Type of Work: X DRILL REENTER						
				8. Lease Name and Well No.			
b. Type of Well: Oil Well X Gas Well Other	Single 2	Zone X Multiple Z		Maddox QU Feder	ral #2 34752		
2. Name of Operator				9. API Well No.	_		
Yates Petroleum Corpora	tion 25575		İ	$30 - \alpha L$	5 - 3580:		
Ba. Address		(include area code)		10. Field and Pool, or Explor			
, redross	30.11.0.0	(,		
105 South Fourth Street, Artesia New Mexico 88210		(505) 748-1471		WC. Mississipp			
4 Location of well (Report location clearly and In accordance	e with any State re	equirements.*)]	1. Sec., T., R, M., or Blk. A	and Survey or Area		
At surface	1//01 PPT 17 *	. 7					
	d 660' FEL, Uni	11	i	Section 33, T18	BS-R24E		
At proposed prod. zone	same as above						
4. Distance in miles and direction from the nearest town or pos	t office*			12. County or Parish	13 State		
Approximately 14 miles southwest of	f Artosia Now M	Invica		Eddy County	NM		
Approximately 14 times southwest of 15. Distance from proposed*		o. of acres in lease	17. Spac	ring Unit dedicated to this we			
location to nearest	1.0, 1.0	01 u 0100 10 u 00	l span				
property or lease line, ft.							
(Also to nearest drlg unit line, if any) 660'		320.00		320 - S/2			
8 Distance from proposed location*	19. Pro	oposed Depth	20. BLM	1/ BIA Bond No. on file			
to nearest well, drilling, completed,							
applied for, on this lease, ft .5 of mile		8750'	1 -4 - 4*	NATIONWIDE BOND #N	MB000434		
21. Elevations (Show whether DF. RT, GR, etc.)	22. Ap	oroximate date work will	i start*	23. Estimated duration			
3744' GL		ASAP		45 Da	ays		
	24. Att	achments					
The following, completed in accordance with the requirements or	f Onshore Oil and	Gas Order No. 1 shall l	be attache	d to this form:			
<i>5</i> , 1							
1. Well plat certified by a registered surveyor.		1	operations	unless covered by existing b	ond on file(see		
2. A Drilling Plan		item 20 above).	_				
3 A Surface Use Plan (if the location is on National Forest Sys SUPO shall be filed with the appropriate Forest Service Offi-		5. Operator certificati		mation and/ or plans as may	he required by the a		
Sol o shan be filed with the appropriate Polest Service of the	cc).	authorized officer.	ciric ilifoi	mation and/ or plans as may	oc required by the a		
	hi (n :			In-t-			
25. Signature	Name (Printed)	(Typea)	C C	Date	7/19/2007		
			Cy Cow	'an	7/18/2007		
Fitle Pagulatary Again							
Regulatory Agent					_ + 0 000=		
Approved By (Signature) Don Peterson	Name (Printed)			Date SE	P 13 2007		
		s/ Don Peters	son				
FIELD MANAGER	Office	CARISE	ADF	IELD OFFICE			
							
Application approval does not warrant or certify that the applican	t holds legal or ed	juitable title to those rig	hts in the	subject lease which would en	title the applicant to co		
perations thereon.			APP	ROVAL FOR TWO	YEARS		

* (Instructions on page 2)

Roswell Controlled Water Basin

SEE ATTACHED FOR **CONDITIONS OF APPROVAL** APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS **ATTACHED**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the Unite

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

State of New Mexico Energy, Minerals & Natural Resources Department 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 IV					Santa F	e, NM	l 87505				
1220 S. St. Francis	Br., Santa I	Fe, NM 87505							☐ AN	TENDED REPORT	
		W	ELL LO	CAT	ON AND .	ACRE	AGE DEDIC	ATION PLA	T		
¹ API Number				² Pool Code 97338			³ Pool Name WC. Mississippian Gas				
⁴ Property	Code				⁵ Pro	perty Na	me			⁶ Well Number	
34752	:]				MADDO	K QU FE	DERAL			2	
⁷ OGRID	No.				⁸ Op	erator Na	me			⁹ Elevation	
02557	5			YA	ATES PETROI	EUM C	ORPORATION			3744'	
					¹⁰ Sur	face Lo	ocation				
UL or lot no.	Section	Township	Range	Lot	Idn Feet fr	om the	North/South line	Feet from the	East/West lin	e County	
I	33	188	24E		1980		SOUTH	660	EAST	EDDY	
			¹¹ Bo	ttom l	Hole Locati	on If I	Different Fron	n Surface			
UL or lot no.	Section	Township	Range	Lot	Idn Feet fr	om the	North/South line	Feet from the	East/West lin	e County	
12 Dedicated Acre 320 S/2	s ¹³ Joint o	r Infill 14 Co	nsolidation (Code	⁵ 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.

16				1 4 1 1	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and behief, 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 empluritary pooling agreement or a compulsory pooling order heretoforg entered by this division. 718/07 Signature Date Cy Cowan Printed Name Regulatory Agent Title
	NM-28864	The second secon	66	90' I	18SURVEYOR 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
			,080!		Signature and Seal of Professional Surveyor REFER TO ORIGINAL PLAT Certificate Number

District) 1825 N. French Dr. Hobbs, NM 88240

District II 811 South First, Artesia, MM 88210 District III 1000 Rio Brozos Rd., Aztec NM 87410

<u>District IV</u> 2040 South Pacheco, Sants Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, N M 87505

Form C-102 Revised Morch 17, 1999 Submit to Appropriate District Office State Lease — 4 Copies
For Lease — 3 Copies

MENDED REPORT

WELL LOCATION AND ACDEACE DEDICATION DIAT

Property Code Property Code Property Code Property Code Property Nome ADDOX QU PEDERAL QUESTS VATES PETROLEUM CORPORATION Surface Location Surface Location Formally Surface Location Formally Surface Location Formally Surface Location Formally For				LUCA	ПОІ	V /	AND AC	KEAGE	DEDICA	ATION F	LAI	
Property Norse MADDOX QU PEDERAL Operation Norm Operation Norm Operation Norm Operation Norm Operation Norm Operation Operati	API Number Pool Code											
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YATES PETROLEUM CORPORATION

Maddox QU Federal #2 1980' FSL and 660' FEL Section 33-T18S-R24E Eddy County, New Mexico

1. The estimated tops of geologic markers are as follows:

San Andres	520'	Oil Pay	Cisco	6280'	Gas Pay
Glorieta	1810'	Oil Pay	Strawn	7430'	Gas Pay
Upper Yeso	1970'	Oil Pay	Atoka	7810'	Gas Pay
Tubb	3195'	Oil Pay	Middle Morrow	8380'	Gas Pay
Lower Yeso	3370'	Oil Pay	Lower Morrow	8500'	Gas Pay
Abo	3845'	Oil Pay	Chester	8560'	Gas Pay
Wolfcamp	5220'	Oil Pay	TD	8750'	Gas Pay

2. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Water:

453'

Oil or Gas: All potential zones.

3. Pressure Control Equipment: BOPE will be installed on the 9 5/8" casing and rated for 5000 BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout Preventor controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B.

Auxiliary Equipment:

- A. Auxiliary Equipment: Kelly cock, pit level indicators, flow sensor equipment and a sub with full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.
- 4. THE PROPOSED CASING AND CEMENTING PROGRAM:
 - A. Casing Program: (All New)

<u>Hole Size</u>	Casing Size	<u>Wt./Ft</u>	<u>Grade</u>	<u>Coupling</u>	<u>Interval</u>	<u>Length</u>
14 3/4	9 5/8"	36#	J-55	ST&C	0-1200'	1200'
8 3/4"	5 ½"	17#	J-55	LT&C	0-100'	100'
8 3/4"	5 ½"	15.5#	J-55	LT&C	100'-6800'	~680 0'67 <i>0</i> 0 '
8 3/4"	5 ½"	17#	L-80	LT&C	6800',-8 875 ', 8750	1950'

Yates Petroleum Corporation requests a variance to install a rotating head on the surface casing strings when intermediate casing will be set. If a BOP system is required then we wish to install a 2M system and receive a variance to test the system to 1000# using the rig pumps. The test will be held for 30 minutes on each system component. Components to be tested include pipe rams, blind rams, and annular preventer.

Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, Joint Strength 1.8

B. CEMENTING PROGRAM:

Surface casing: 875 sx POZ "C" (YLD 1.9 WT 12.4). Tail in with 200 sx "C"

(YLD 1.32 WT 14.8) Surface

Production Casing: Stage I 750 sx "C" (YLD 1.82 WT 13.6) DV Tool @ 6000. TOC 6000

Stage II 1500 sx Lite "C" (YLD 2.04 WT 12.4) Tail in with 100 sx

"C" (YLD 1.32 WT14.8). Surface

Nitrified mud maybe used to bring cement to the surface on production

string.

5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0-1200'	FW Gel/LCM	8.3-8.6	30	N/C
1200'-3800'	Cut Brine	9.1-9.3	28	N/C
3800'-7750'	Cut Brine	9.3-9.5	29	N/C
7750'-TD	Cut Brine/Starch/4-6% KCL	9.5-9.8	31-34	<10cc

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blow out will be available at the well site during drilling operations. Mud will be checked hourly by rig personnel.

6. EVALUATION PROGRAM:

Samples: 10' samples out from under intermediate casing.

Logging: Platform Express/HRLA, possible FMI.

Coring: Possible Rotary Sidewall Cores

DST's: Possible Abo to TD.

7. ABNORMAL CONDITIONS, BOTTOM HOLE PRESSURE, AND POTENTIAL HAZARDS:

Anticipated BHP:

From: 0 TO: 1200' Anticipated Max. BHP: 540 PSI From: 1200' TO: 8750' Anticipated Max. BHP: 4450 PSI

No abnormal pressures or temperatures are anticipated.

Lost Circulation Zones Anticipated: None

H2S Zones Anticipated: Possible Canyon.

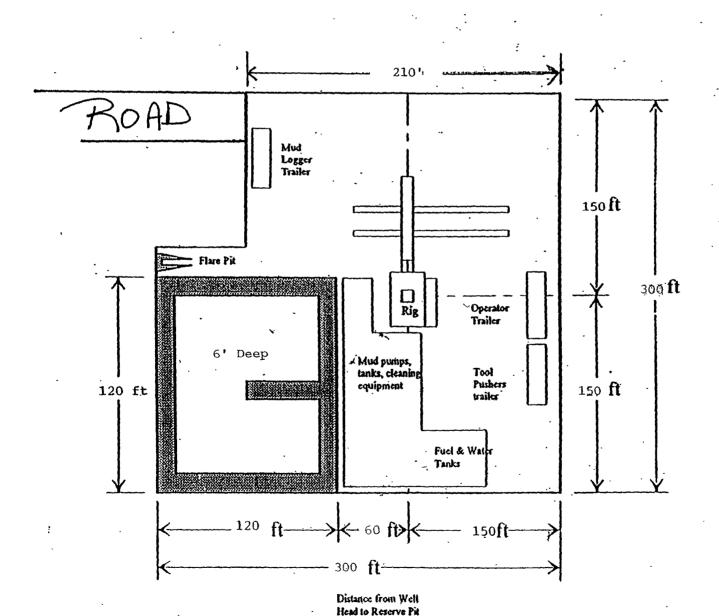
8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 20 days to drill the well with completion taking another 15 days.

Yates Petroleum Corporation

Location Layout for Permian Basin Up to 12,000'

Yates Petroleum Corporation Maddox QU Federal #2 1980' FSL and 660' FEL Section 33, T18S-R24E Eddy County, New Mexico



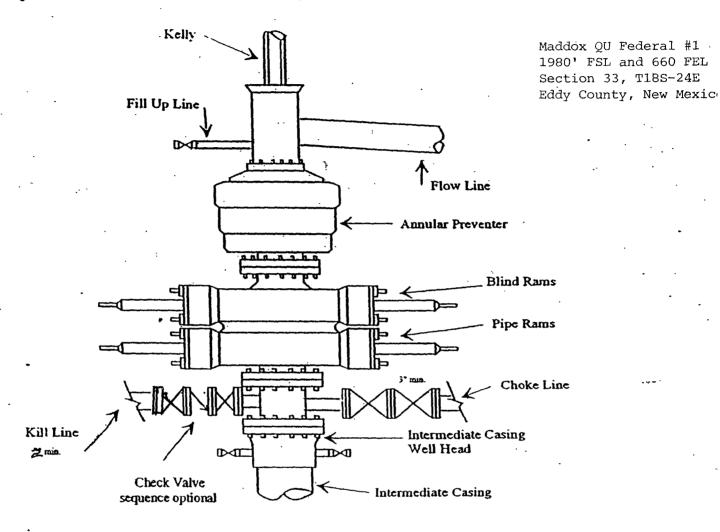
The above dimension should be a maximum

will vary between rigs

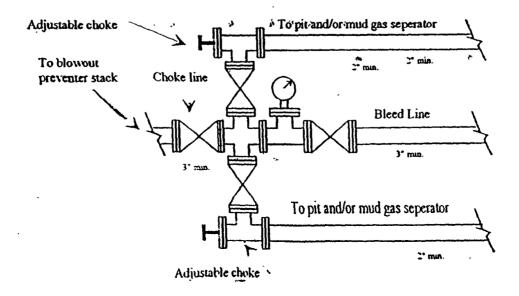


Yates Petroleum Corporation

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



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



Yates Petroleum Corporation

105 S. Fourth Street Artesia, NM 88210

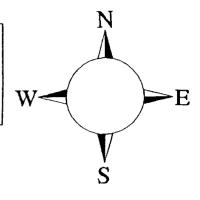
Hydrogen Sulfide (H₂S) Contingency Plan

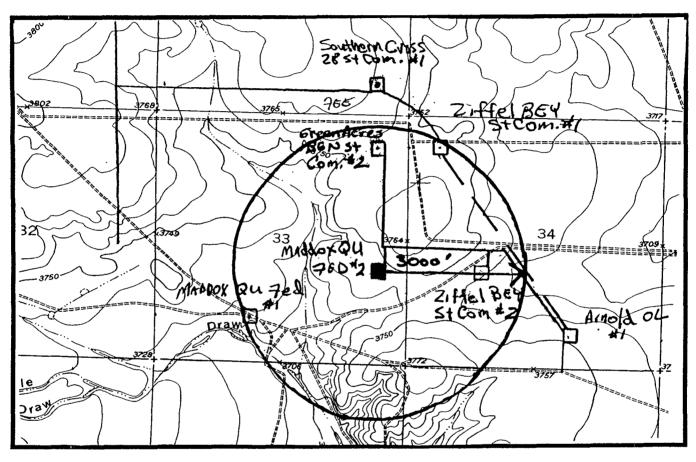
For

Maddox QU Federal #2
1980' FSL, 660' FEL
Section 33, T-18S, R-24E
Eddy County NM

Maddox QU Federal #2 Location

This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain





Emergency Procedures

In the case of a release of gas containing H₂S, 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_2S , measures for protection against the gas, equipment used for protection and emergency response. Additionally, responders must be equipped with H_2S 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 (SO₂). 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 H₂S and SO₂

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

Contacting Authorities

YPC 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. YPC Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

MULTI-POINT SURFACE USE AND OPERATIONS PLAN YATES PETROLEUM CORPORATION

Maddox QU Federal #2 1980' FSL and 660' FEL Section 33 T18S-R24E Eddy County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated with the operations.

1. EXISTING ROADS:

Exhibit A is a portion of the BLM map showing the well and roads in the vicinity of the proposed location. The proposed wellsite is located approximately 14miles southwest of Artesia, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go south of Artesia on Highway 285 to Kincaid Ranch Road (CR-38). Turn right on Kincaid Ranch Road and go 3.3 miles to the end of the pavement and a cattleguard. Cross cattleguard and continue on CR-38 for 1 mile. At this point follow county road west and cross a cattleguard. Continue going west on double road for approx. 3.7 miles to end of double road. From here continue west on lease road for approx. 1.4 miles. Turn right here and go .1 of a mile to the Arnold OL #1 well pad. The new road will start here from the northwest corner of the Arnold OL #1 following a pipeline right-of-way. Follow pipeline for approx. .4 of a mile to a fence. Turn west at the fence and go along fence for approx. .4 of a mile. The new road will start here going south for .1 of a mile to the northeast corner of the well pad.

PLANNED ACCESS ROAD:

- A. The proposed new access will be approximately .9 of a mile going to the northast corner of the drilling pad. The road will lie in a northwest/west/south direction.
- B. The new road will be 14 feet in width (driving surface) and will be adequately drained to control runoff and soil erosion.
- C. The new road will be bladed with drainage on one side. Traffic turnouts will be built.
- D. The route of the road is visible.
- E Existing roads will be maintained in the same or better condition.

3. LOCATION OF EXISTING WELL:

- A. There is drilling activity within a one-mile radius of the wellsite.
- B. Exhibit D shows existing wells within a one-mile radius of the proposed wellsite.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. There are production facilities on this lease at the present time.
- B. In the event that the well is productive, the necessary production facilities will be installed on the drilling pad. If the well is productive oil, a gas or diesel self-contained unit will be used to provide the necessary power. No power will be required if the well is productive of gas.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with a fresh water system. The water will be obtained from commercial sources and will be hauled to the location by truck over the existing and proposed roads shown in Exhibit A.

6. SOURCE OF CONSTRUCTION MATERIALS:

Dirt contractor will locate nearest pit and obtain any permits and materials needed for construction.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted.
- D. Oil produced during operations will be stored in tanks until sold.
- E. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- F. All trash, junk, and other waste materials will be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary land fill. Burial on site is not approved.

8. ANCILLARY FACILITIES:

None

9. WELLSITE LAYOUT:

- A. Exhibit C shows the relative location and dimensions of the well pad, the reserve pits, the location of the drilling equipment, rig orientation and access road approach.
- B. The reserve pits will be plastic lined. Yates Petroleum Corporation is in full compliance with the OCD General Plan for Drilling Pits approved on April 15, 2004.
- C. A 600' x 600' area has been staked and flagged.

10. PLANS FOR RESTORATION:

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Unguarded pits, if any, containing fluids will be fenced until they have dried and been leveled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled level after they have evaporated and dried.

Maddox QU Federal #2

Page 3

- 11. SURFACE OWNERSHIP: Private Surface owned by the James H. and Betty R. Howell Revocable Trust, P.O. Box 75, Lakewood, NM 88254. Attention Mr. Alan Howell, (505) 365-7810. A surface damage agreement has been reached with the Howell Trust.
- 12. OTHER INFORMATION:
 - A. Topography: Refer to the existing archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.
 - B. The primary surface use is for grazing.
- 13. OPERATOR'S REPRESENTATIVE:
 - A. Through A.P.D. Approval:

Cy Cowan, Regulatory Agent Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471 B. Through Drilling Operations, Completions and Production: Pinson McWhorter, Operations Manager Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

CERTIFICATION YATES PETROLEUM CORPORATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 18th day of July	<u>, 2007</u>
Name Cy Cowan Cy Cowan	
Position Title Regulatory Agent	
Address 105 South Fourth Street, Artesia, NM 88210	
Telephone 505-748-4376	
Field Representative (if not above signatory) Jim Krogman	
Address (if different from above) Same	
Telephone (if different from above) 505-748-4215	
E-mail (optional)	

VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 2 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 361-2822

- 1. Although no Hydrogen Sulfide has been reported, it is always a potential hazard.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- 3. When floor controls are required, (3M or Greater) controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

B. CASING

ľ

- 1. The 9-5/8 inch surface casing shall be set at approximately 1200 feet and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement).
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

d. If cement falls back, remedial action will be done prior to drilling out that string.

Possible lost circulation in the Grayburg and San Andres formations.

Medium potential for cave/karst.

Possible high pressure gas bursts in Wolfcamp and over pressured Pennsylvanian Section.

- 2. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office. Both stages to circulate.
- 3. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.
- 3. The appropriate BLM office shall be notified a minimum of 2 hours in advance for a representative to witness the tests.
 - a. The tests shall be done by an independent service company.
 - b. The results of the test shall be reported to the appropriate BLM office.
 - c. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.
 - e. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of

the surface casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

Engineer on call phone (after hours): Carlsbad: (505) 706-2779

WWI 082007

VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Containment Structures

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color Shale Green, Munsell Soil Color Chart # 5Y 4/2

VRM Facility Requirement

Low-profile tanks not greater than eight-feet-high shall be used.

- B. PIPELINES
- C. ELECTRIC LINES