N.M. Oil Cons. DIV-Dist. 1301 W. Grand Avenue Artesia, NM 88210 Form 3160-3 OMB No. 1004-0136 (August 1999) UNITED STATES Expires November 30, 2000 DEPARTMENT OF THE INTERIOR 5. Lease Serial No. LE OE BUREAU OF LAND MANAGEMENT LC-028446-A 6. If Indian, Allottee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER **Not Applicable** 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of Work: X Not Applicable 9 8. Lease Name and Well No. Oil Well Single b. Type of Well: **X** Gas Multiple Zone Orient Express "ARS" Fed. Com. #1 Well 9. API Well No. 2. Name of Operator Yates Petroleum Corporation (-015 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 3A. Address 105 South Fourth Street Artesia, New Mexico 88210 (505) 748-1471 inglan Basin Upper Penn-Absociated 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T., R., M., or Blk, and Survey or Area 760' FSL &1880' FEL At surface same as above Section 5, T17S-R28E At proposed prod. Zone 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office* NM Eddy Approximately 14 miles NE of Artesia, NM Distance from proposed* 17. Spacing Unit dedicated to this well 16. No. of Acres in lease location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 760' 320.00 639.36 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 19. Proposed Depth 20. BLM/BIA Bond No. on file 10,500 585997 22. Approximate date work will start* 23. Estimated duration 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3587' GR **ASAP** 30 Days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form: 1. Well plat certified by a registered surveyor. Bond to cover the operations unless covered by an existing bond on file (see

- 2. A Drilling Plan.
- 3. A Surface Use Plan (if the location is on National Forest System Lands, the with the appropriate Forest Service Office.
- Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized office.

25. Signatu Name (Printed/Typed) Date Cy Cowan 5/14/02 Title: Regulatory Agent Name (Printed/Typed) Approved by (Signature) JUN 1 4 2002 /S/ JOE G. LARA /S/ JOE G. LARA Office Title CARLSBAD FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. APPROVAL FOR 1 YEAR

Conditions of approval, if any, are 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 United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

^{*(}Instructions on reverse)

ISI JOE G. I ARA

ISI JOE G. LARA

2002 MAY 15 AM 8:55

BECEINED

DISTRICT I
1000 M. Prunch Dr., Mebbs, INI 20040
DISTRICT II
611 South First, Artesia, IM 88219
DISTRICT III
1000 Me Brusse Bd., Astee, IM 87410

000, Santa Fe, NH 87606

DISTRICT IV

State of New Mexico Basegy, Massals and Return Resources Department.

Form C-102
Revised March 17, 1999
Instruction on back
Submit to Appropriate District Office
State Lease - 4 Contes

State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	t I	ol Name cat Morrow
Property Code	Property Name	Well Number
	Orient Express "ARS" Federal Co	om. 1
OCRID No.	Operator Name	Rievation.
025575	Yates Petroleum Corporation	3587

Surface Location

į	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	0	5	17S	28E		760	South	1880	East	Eddy

Bottom Hole Location If Different From Surface

	UL or lot No.	Section	Township	Range	Let Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	Dedicated Acres	Joint o	r haffill C	onsolidation (Code Or	der No.	I			
l	320									

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 haveby certify the the information contained herein is true and complete to the best of my incodedge may helic!
			Signiture Cy Covan Printed Name Regulatory Agent Title Refer to Original Plat Date
LC · 012897	LC- D284	H4U-A	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual curveys made by me or under my supervison, and that the same in true and correct to the best of my bolist. Date Surveyed Signature & Seal of Professional Surveyor Cortificate No. Herschel L. Jones RLS 3640 GENERAL SURVEYING COMPANY

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Instruction on back
Submit to Appropriate District Office

State Lease - 4 Copies Foe Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artonia, NM 86210

DISTRICT III 1000 Rio Brazos Rd., Axtec, NM 87410

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name	
		Wildcat Morrow	
Property Code		erty Name "ARS" FEDERAL COM.	Well Number
OGRID No.	Oper	ator Name	Elevation
025575	YATES PETROI	LEUM CORPORATION	3587

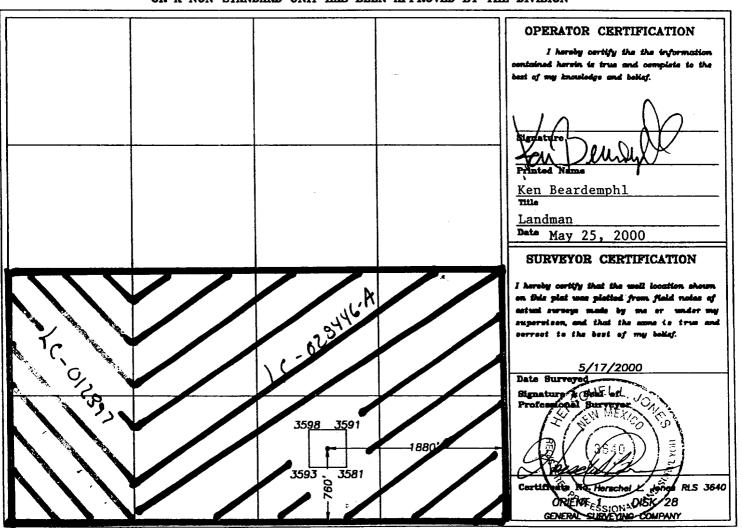
Surface Location

UL or lot No.	Section	Township	Range	lot Idn	Feet from the	North/South line	Feet from the	East/Vest line	County
0	5	175	28E		760	SOUTH	1880	EAST	EDDY

Bottom Hole Location If Different From Surface

UL er let No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or	Infill Con	nsolidation (ods Or	der No.			<u>, </u>	
320									

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



YATES PETROLEUM CORPORATION

Orient Express "ARS" Federal Com. #1 760' FSL and 1880' FWL Sec. 5-T17S-R28E Eddy County, New Mexico

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

San Andres	1913'	Atoka	9285'
Glorieta	3266'	Morrow Clastics	9608'
Abo	5381'	Lower Morrow	9648'
Wolfcamp Lime	6517'	Chester Lime	9920'
Lower Canyon	8323'	TD	10050'
Strawn	8798'		

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

Water:

150' - 300'

Oil or Gas: All potential zones

Pressure Control Equipment: BOPE will be installed on the 8 5/8" casing and rated for 3. 3000 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:

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.

THE PROPOSED CASING AND CEMENTING PROGRAM: 4.

CASING PROGRAM: (ALL NEW) A.

<u> Hole Size</u>	Casing Size	Wt./Ft	<u>Grade</u>	<u>Thread</u>	<u>Interval</u>	<u>Length</u>
14 3/4"	11 3/4"	42#	H-40	ST&C	0-400'	400'
11"	8 5/8"	24#	J-55	ST&C	0-2000'	2000'
7 7/8"	5 ½"	17#	L-80	LT&C	0-400'	400'
7 7/8"	5 ½"	17#	J-55	LT&C	400'-1500'	1100'
7 7/8"	5 ½"	15.5#	J-55	LT&C	1500'-6000'	4500'
7 7/8"	5 ½"	17#	J-55	LT&C	6000'-7900'	1900'
7 7/8"	5 ½"	17#	N-80	LT&C	7900'-9200'	1300'
7 7/8"	5 ½"	17#	HCP-110	LT&C	9200'-10050'	850'

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

Orient Express "ARS" Federal Com. #1 Page 2

B. CEMENTING PROGRAM:

Surface Casing: 250 sx "C" + 2% CACL2 (Yld 1.32 wt 14.8)

Intermediate Casing: 900 sx Lite (YLD 1.8 WT 12.9) Tail in w/200 sx "C"

(YLD 1.34 WT 14.8)

Production Casing: TOC = 6100', 650 sx Super C (YLD 1.61 WT 13.1).

5. MUD PROGRAM AND AUXILLIARY EQUIPMENT:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss
0-400'	FW Spud Mud	8.4-8.8	32-34	N/C
400'-2000'	FW	8.4-8.8	32-34	N/C
2000'-5300'	FW/Cut Brine	8.6-8.9	28	N/C
5300'-9200'	Cut Brine	8.9-9.5	28	N/C
9200'-10050'	Salt Gel/Starch/2% KCL	9.5-9.9	32-40	<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 surface TD.

Logging: PEX/HALS, TD-Casing; GR-CNL on up to surface.

Coring: None anticipated. DST's: As warranted.

7. Abnormal Conditions, Bottom hole pressure and potential hazards: Anticipated BHP:

From: 0	TO: 400'	Anticipated Max. BHP:	200	PSI
From: 400'	TO: 2000'	Anticipated Max. BHP:	1000	PSI
From: 2000'	TO: 10050'	Anticipated Max. BHP:	5100	PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None

H2S Zones Anticipated: None

Maximum Bottom Hole Temperature: 170° F

8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 30 days to drill the well with completion taking another 15 days.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN YATES PETROLEUM CORPORATION

Orient Express "ARS" Federal Com.#1 760' FSL and 1880' FWL Sec. 5-T17S-R28E 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 well site is located approximately 14 miles northeast of Artesia, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go east of Artesia, New Mexico on Highway 82 to County Road (202) Southern Union. Turn north and go to end of County Road (202). Go east on caliche road for approximately 0.8 of a mile and turn northeast on caliche road for approximately 0.9 of a mile. Turn south on caliche road for approximately 0.3 of a mile. New road starts here.

2. PLANNED ACCESS ROAD:

- A. The proposed new access will be approximately 500' in length from the point of origin to the southeast corner of the drilling pad. The road will lie in a east to west 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. No 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 well site.
- B. Exhibit D shows existing wells within a one-mile radius of the proposed well site.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. There are no 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:

The dirt contractor will acquire any permits and materials from the closest source at the time of construction of the well pad.

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 landfill. Burial on site is not approved.

8. ANCILLARY FACILITIES: None

- 9. **WELLSITE LAYOUT:** The well pad was moved to this location per the onsite with Mr. Barry Hunt on May 10, 2000.
 - 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.
 - C. A 400' x 400' 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 well site 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 within 90 days after abandonment.
- 11. SURFACE OWNERSHIP: Federal surface, Administered by the Bureau of Land Management, Carlsbad, New Mexico.

Orient Express "ARS" Federal Com. #1 Page 3

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.

B. The primary surface use is for grazing.

13. OPERATOR'S REPRESENTATIVE

A. Through A.P.D. Approval:

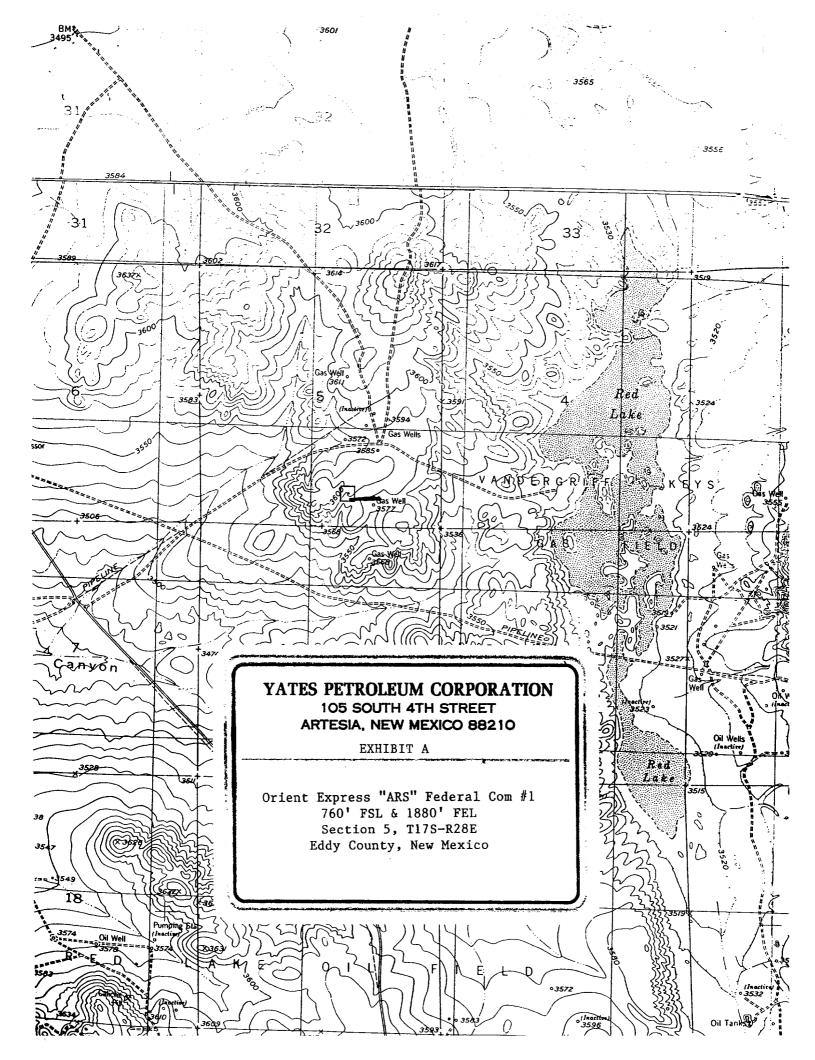
Cy Cowan, Regulatory Agent Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471 Through Drilling Operations, Completions and Production: Pinson McWhorter, Operations Manager Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone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

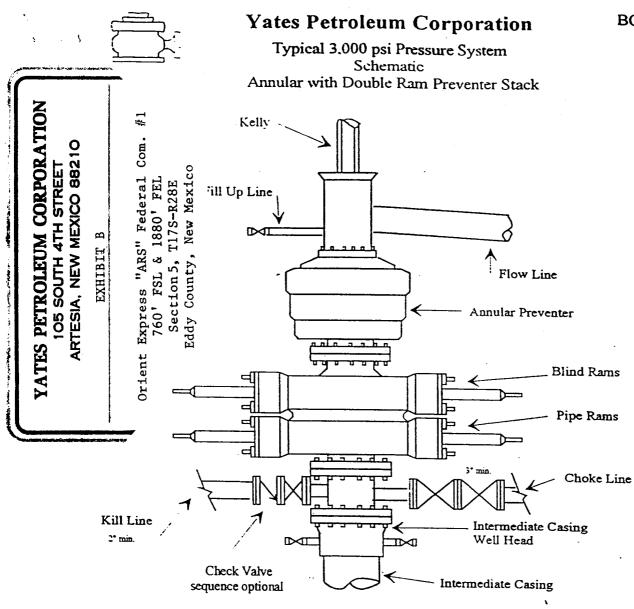
14. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Yates Petroleum Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

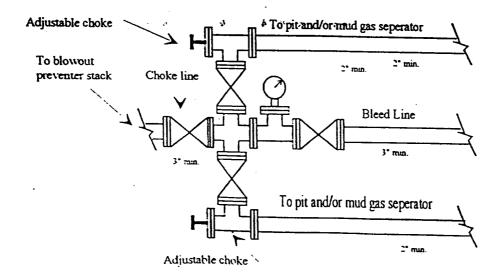
5/14/02

Regulatory Agent





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



YATES PETROLEUM CORPORATION 105 SOUTH 4TH STREET

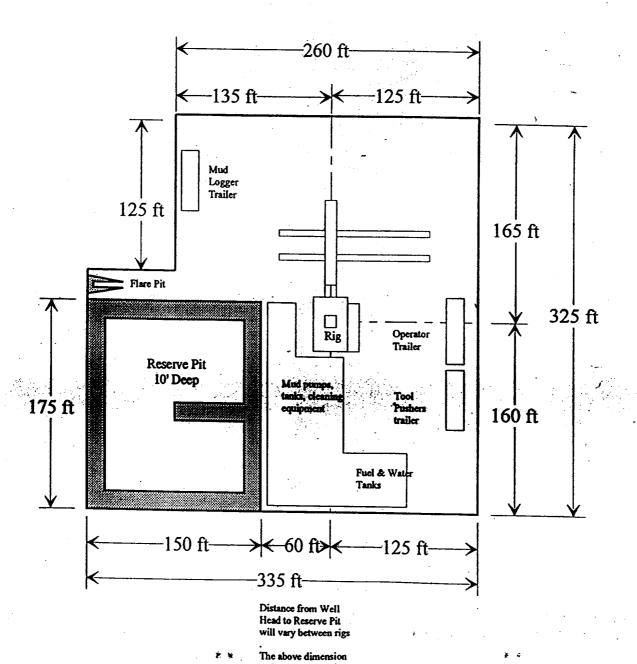
105 SOUTH 4TH STREET ARTESIA, NEW MEXICO 88210

EXHIBIT C

Orient Express "ARS" Federal Com. #1
760' FSL & 1880' FEL
Section 5, T17S-R28E
Eddy County, New Mexico

PB-L1

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should be a maximum

