Form 3160-3 (August 1999) OMB No. 1004-0136 UNITED STATES Expires November 30, 2000 ARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT NM-28171 6. If Indian, Allottee or Tribe Name CATION FOR PERMIT TO DRILL OR REENTER Not Applicable 7. If Unit or CA Agreement, Name and No. la. Type of Work: DRILL REENTER Not Applicable 8. Lease Name and Well No. 12 7 Oil Well b. Type of Well: Gas Other Multiple Zone Single Spear OA Federal #5 Well Zone 2. Name of Operator 9. API Well No. **Yates Petroleum Corporation** -015-634 3A. Address 105 South Fourth Street 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory Artesia, New Mexico 88210 (505) 748-1471 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 At surface 990' FNL and 1980' FWL, Unit C At proposed prod. Zone same as above Section 15, T9S-R26E 14. Distance in miles and direction from nearest town or post office* 13. State 12. County or Parish Approximately twenty (20) miles northeast of Roswell, New Mexico **Chaves County** NM Distance from proposed* 16. No. of Acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) 1399.95 320 acres - W/2 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 6390' NM-2811 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3795' GL **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. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the Operator certification. SUPO shall be filed with the appropriate Forest Service Office. Such other site specific information and/or plans as may be required by the authorized office. 25. Signature Name (Printed/Typed) Date Clifton R. May 12/20/01 Title: Regulatory Agent Approved by (Signature) Name (Printed/Typed INJUARRY D. BRAV /S/LARRY D. BRAY APR 24 2002

ROSWELL FIELD OFFICE Assistant Field Manager. **APPROVED FOR 1 YEAR** Lands And Minerals 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.

Office

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.

Title

^{*(}Instructions on reverse)

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BEC-MED

DISTRICT I 1625 M. French Dr., Hobbe, NM 88246 DISTRICT II 811 South First, Artesia, NM 88210 DISTRICT III 1000 Rto Brazoe Rd., Aztec, NM 87410

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102
Revised March 17, 1999
Instruction on back
Submit to Appropriate District Office
State Lease 74 Contents

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	Pool Code	Pool Na	me
		Undesignated Foor F	Ranch
Property Code	Property Name		Well Number
	SPEAR "OA" FEDERAL		5
OGRID No.	Operator Name		Elevation
025575	YATES PETROLEUM CORPORATION 3795		

Surface Location

UL or lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
С	15	9S	26E		990	NORTH	1980	WEST	CHAVES

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	p Range	Lot Idn	Feet from the	North/South line	Peet from the	East/West line	County
Dedicated Acres	Joint o	r Infill	Consolidation	Code Or	der No.	<u>. </u>		L	<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

3796 3799 3790 3794	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. Clift R. May Signature
N.33°32'14.2" W.104°17'14.2" NM-28171	Clifton R. May Printed Name Regulatory Agent Title 12/20/01 Date SURVEYOR CERTIFICATION
5 pear OA Federal 3 0 1980 5 1660 W	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 supervison, and that the same is true and correct to the best of my belief.
	Date Surveyed Signature & Seal of Professional Surveyor MEXICAL Contracting the procession of the profession of the pr
	SPEAR 5 CENTRAL SURVEYING COMPANY

YATES PETROLEUM CORPORATION Spear "OA" Federal #5

990' FNL and 1980' FWL Section 15-T9S-R26E Chaves County, New Mexico

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

San Andres	990'
Glorieta	2065'
Yeso	2165'
Tubb	3605'
Abo	4365'
Wolfcamp	5115'
Cisco	5640'
Penn Clastics	5750'
Mississipian	5925'
Ordovician	5965'
Basement-Granite	6290'
TD	6390'

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

Water:

150'-200'

Oil or Gas: All potential zones.

3. Pressure Control Equipment: BOPE will be installed on the 8 5/8" casing and rated for 2000 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>	<u>Casing Size</u>	<u>Wt./Ft</u>	<u>Grade</u>	<u>Coupling</u>	<u>Interval</u>
12 1/4"	9 5/8"	36#	J-55	ST&C	0-1100'
8 3/4"	7"	23 & 26#	J-55	ST&C	0-6390'

- 1. Minimum Casing Design Factors: Collapse 1.125, Burst 1.0, Tensile Strength 1.8
- 2. Yates Petroleum Corporation requests that a variance be granted in requiring the casing and BOPE to be tested to 2000 PSI to testing the casing and BOPE to 1000 PSI. The rig pumps will be used to test the casing and BOPE. Rig pumps used in this area cannot safely test above 1000 PSI. We would have to go to the greater expense of hiring an independent service to do the testing. Also, the maximum shut-in bottom hole pressure is 1100 PSI. Pressure at the surface is much less. We feel that a 1000psi test will demonstrate that the BOPE is functioning properly and in the unlikely event of a gas in flux that the BOPE would be sufficient to control the well.

Spear "OA" Federal #5 Page 2

A. CEMENTING PROGRAM:

Surface Casing: 250 sx Lite "C" (YLD 2.0 WT 12.5). Tail in with 200 sx "C" + 2% CaCL2 (YLD 1.33 WT 15.6).

Production Casing: 500 sx Pecos Valley Lite (YLD 1.34 WT 13.0). TOC 3800'.

5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

Interval	<u>Type</u>	Weight	<u>Viscosity</u>	Fluid Loss
0-1100'	FW GEL,Paper,LCM	8.6 - 9.6	32-36	N/C
1100'-4290'	Brine	10.0 –10.2	28	N/C
4290'-6390'	Starch/Salt Gel	9.3 -10.2	32-40	<10/cc

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.

EVALUATION PROGRAM:

Samples: 10' samples out from under surface casing.

Logging: CNL/LDT, W/NGT TD-Surf csg; with CNL/GR up to Surf; DLL/MSFL

TD-Surf csg: Long Spaced Sonic TD-SURF CSG

Coring: None

DST's: As warranted.

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

Anticipated BHP:

From: 0 TO: 1100' Anticipated Max. BHP: 400 PSI From: 1100' TO: 6390' Anticipated Max. BHP: 3000 PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: None.

H2S Zones Anticipated: None Anticipated

Maximum Bottom Hole Temperature: 145 F

8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 25 days to drill the well with completion taking another 20 days.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN YATES PETROLEUM CORPORATION

Spear "OA" Federal #5 990' FNL and 1980' FWL Section 15-T9S-R26E Chaves 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 20 miles northeast of Roswell, New Mexico and the access route to the location is indicated in red and green on Exhibit A.

DIRECTIONS:

Go northeast of Roswell on Hwy 70 for approximately 14 miles to Magdalena Road. Turn right (south) and follow main road approximately 5.2 miles. Turn left on lease road. Go approx. 0.2 of a mile and turn right. Go approximately 0.5 miles and new access will start here. Go approximately 0.1 mile to the SW corner of pad.

PLANNED ACCESS ROAD:

- A. The proposed new access will be approximately 500' in length from the point of origin to the southwest corner of the drilling pad. The road will lie in a north to 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. Existing roads will be maintained in the same or better condition.
- D. Ramp over existing surface pipeline at start of new road.

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 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.

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:

- 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.
- D. The topsoil will be stockpiled at the SE corner of pad.

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 after they have evaporated and dried.
- 11. SURFACE OWNERSHIP: Split Estate with surface belonging to Meredith Revocable Trust, Melrose, New Mexico. Yates has reached an agreement as to our operations to be conducted on this well.

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.

Spear "OA" Federal #5 Page 3

13. OPERATOR'S REPRESENTATIVE:

A. Through A.P.D. Approval: B. Clifton R. May, Regulatory Agent Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

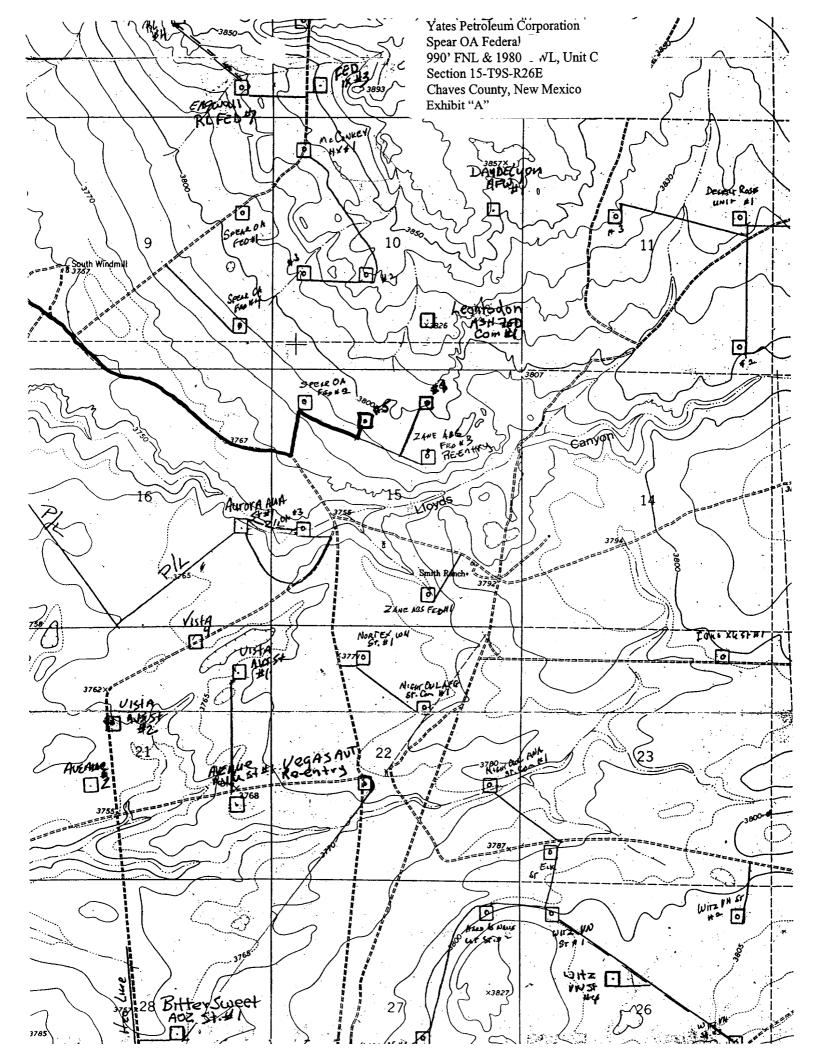
Through Drilling, Completions & Prod. Pinson McWhorter, Operations Manager Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Phone (505) 748-1471

14. CERTIFICATION:

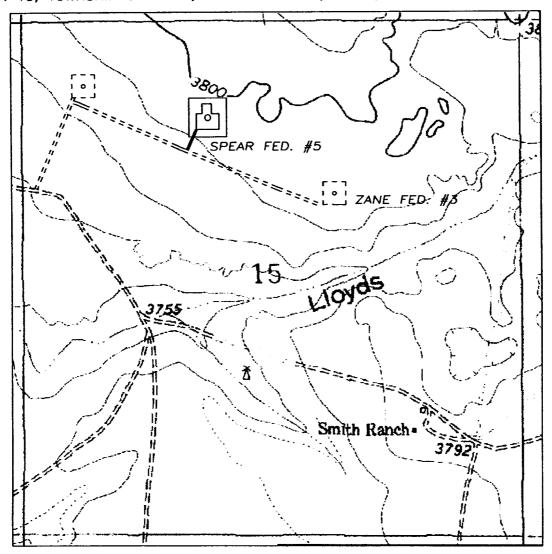
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and, that the work associated 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.

12/20/01

Regulatory Agent



SECTION 15, TOWNSHIP 9 SOUTH, RANGE 26 EAST, NMPM, CHAVES COUNTY, NEW MEXICO.



Yates Petroleum Corporation Spear OA Federal #5 990' FNL & 1980' FWL, Unit C Section 15-T9S-R26E Chaves County, New Mexico Exhibit "A-1"

THE PREPARATION OF THIS PLAT AND THE PERFORMANCE OF THE SURVEY UPON WHICH IT IS BASED WERE DONE UNDER MY DIRECTION AND THE PLATE MICLURATELY DEPICTS THE RESULTS OF SAID SURVEY AND WHET THE DEDUIREMENTS OF THE STANDARDS FOR LAND SURVEY WAS ADOPTED BY THE NEW MILLIED STATE BURNEY OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS.

GENERAL SURVEYING COMPANY P.O. BOX 1928 LOVINGTON, PESSIONA NEW MEXICO 88260 1<u>000' 0 1000' 2</u>000' Scale 1" = 1000'

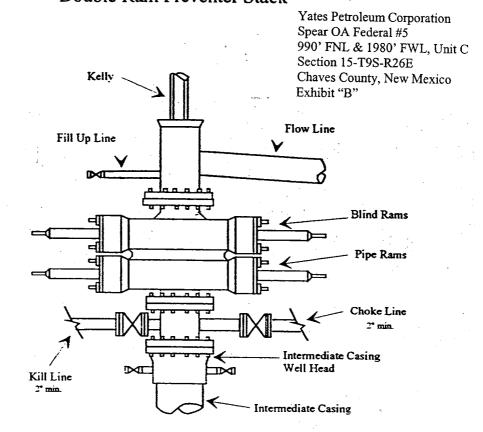
YATES PETROLEUM CORP.

LEASE ROAD TO ACCESS THE YATES SPEAR "OA" FEDERAL #5, LOCATED IN SECTION 15, TOWNSHIP 9 SOUTH, RANGE 26 EAST, NMPM, CHAVES COUNTY, NEW MEXICO.

Survey Date: 12/12/2001	Sheet 1 of 1 Sheets
Drawn By: Ed Blevins	W.O. Number
Date: 12/16/01	Scale 1" = 1000' SPEAR 5

Yates Petroleum Corporation

Typical 2,000 psi Pressure System Schematic Double Ram Preventer Stack



Typical 2,000 psi choke manifold assembly with at least these minimun features

