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EXPEDIATED ROW

2003 MAR 12 PM 3: 47 Form 3160-3 FORM APPROVED OMB No. 1004-0136 Expires January 31, 2004 (September 2001) Lease Serial No. DEPARTMENT OF THE INTERIOR SF-077383A **BUREAU OF LAND MANAGEMENT** If Indian, Allottee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER NA 7/If Unit or CA Agreement, Name and No. la. Type of Work: DRILL □ REENTER NA 8. Lease Name and Well No. 1b. Type of Well: Q Oil Well Q Gas Well Q Other Single Zone Multiple Zo Picavune 2. Name of Operator API Well No. 3004 Koch Exploration Company, 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 20E. Greenway Plaza Basin Fruitland Coal (713) 544–4318 Houston, Texas 77046 11. Sec., T., R., M., or Blk. and Survey or Area Location of Well (Report location clearly and in accordance with any State requirements.*) Sec. 28, T28N, R10W At surface NW/4, Sec. 28, T28N, R10W, 1385 FNL & 1968 FWL P At proposed prod. zone 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office4 NM San Juan 6 Miles Southeast of Bloomfield, NM 15. 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) 320 13851 640 20. BLM/BIA Bond No. on file 19. Proposed Depth 18. Distance from proposed location* to nearest well, drilling, completed, 400 GH. 0471 450' 2340 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 30 Days Available Rig 6193_GR 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. 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 2. A Drilling Plan. Operator certification. 3. A Surface Use Plan (if the location is on National Forest System Lands, the Such other site specific information and/or plans as may be required by the SUPO shall be filed with the appropriate Forest Service Office). authorized officer. Name (Printed/Typed) 25. Signature March 12, 2003 Title Approved by (Signature Date Name (Printed/Typed) Title Office /s/ David J. Mankiewicz Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

*(Instructions on reverse)

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

Conditions of approval, if any, are attached.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

DISTRICT I P.O. Box 1980, Hobbs, N.M. 88241-1980 DISTRICT II

, 811 South First, Artesia, N.M. 88210

DISTRICT III 1000 Rio Brazos Rd., Astec, N.M. 67410

2040 South Pacheco, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Revised Febuary 21, 1994 Instructions on back Submit to Appropriate District Office

State Lease — 4 Copies Fee Lease — 3 Copies

AMENDED REPORT

Form C-102

			WELL I	OCATIO	N AND A	CREAGE DED	CATION PI	LAT			
20.0V	Number	446	146 T1629 Basin					Fruitland Coal			
30-045-319 Property Code		"Property Name					Well Number				
18436 *OGRED No.		PICAYUNE 28 **Operator Name					IA * Elevation				
12807		KOCH EXPLORATION					6193				
¹⁰ Surface Location											
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED											
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											
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PICAYUNE 28-1A

Sec. 28-T28N-R10W, 1385' FNL &1968' FWL San Juan Co., New Mexico Lease SF 077383-A

Drilling Program

1) Geological name of surface formation -

Estimated tops of important geological markers:

San Jose	Surface
Ojo	1157'
Kirtland Shale	1299'
Fruitland Coal	1817'
Pict. Cliffs	2210'
TD	2340'

2) Estimated depths at which oil, gas, water, and mineral bearing formation will be found:

Fresh/Useable Water	0' to 1299'
Salt Water	1299' to 1817'
Oil and Gas	1817' to 2340'

3) Pressure Control Equipment:

- a. 10-inch 900 series or 3,000 psi test double gate hydraulic with 4-1/2" pipe rams and 10-inch series 900 hydril above 10-inch series casinghead and cross spool with flanged outlets. See BOP diagram at Exhibit F-1 for drawing of choke lines, kill lines and choke manifold. Procedures will include waiting on cement 12 hours, nipple up blowout preventer (BOP) assembly and test to 70% of yield of casing or 3,000 psi maximum. The production casinghead pressure rating will be 3,000 psi.
- b. Type of BOP rams: Blind rams and pipe rams are used as shown on the BOP diagram at Exhibit F-1. Occasionally, the position of the rams is reversed depending on the drilling contractor's methods.
- c. The choke manifold and header will have 2-inch choke outlets, a 2-inch straight through the line with 2-inch adjustable chokes installed. The inlet line will be a 2-inch line. All of the above are rated at 3,000 psi working pressure (WP). The choke manifold and header system will have manual control valves; no hydraulic valves will be installed. Casing testing procedure Surface casing will be tested at 750 psi with 1,000 psi maximum after cementing in place and before drilling out of shoe. Intermediate and production casing will be tested to 3,000 psi after cementing in place and after drilling to the required depth.
- d. Hydraulic controls to close the BOPs are located on the rig floor; the hydraulic remote control is located in the bottom doghouse. There will be no manual controls on the BOP.

PICAYUNE 28-1A

Sec. 28-T28N-R10W, 1385' FNL &1968' FWL San Juan Co., New Mexico Lease SF 077383-A

- e. BOP testing procedures and frequency:
 - 1. Hydril (3,000WP) will be tested to 70% of yield of casing or 3,000 psi maximum.
 - 2. Double ram BOPs will be tested to 70% of yield of casing or 3,000 psi maximum.
 - 3. BOPs will be tested upon installation, after casing is run and on each bit trip.
- f. Casinghead connections will be 2-inch; these outlets will be bull plugged during drilling operations. No pumping through these connections is allowed except in emergency to keep from wearing out the head.
- g. The drilling spool will be a series 900 3,000 psi WP with a 2-inch kill line and a 2-inch outlet.

4) Proposed Casing Program:

Surface Casing Program:

Surface Casing 12 1/4" hole 8 5/8" 24.0# J-55 STC New Production Casing 7 7/8" hole 4 1/2" 10.5# J-55 LTC New

Proposed setting depth, amount and type of cement including additives:

8 5/8" Surface Casing – Surface to 150' – Cement with 100 sks type III (14.6 ppg, slurry yield 1.39 cf/sk) Cement + 2% bwoc Calcium Chloride + .25 lbs/sk Cello Flake + 59.2% Fresh Water. Volume: 138.1 cf., includes 100% excess. Three (3) centralizers will be run on the bottom 3 joints, starting at the shoe joint.

4 ½" Production Casing – Surface to 2340' – Circulate Cemust

Lead with 293 sks Premium Lite FM (12.1 ppg, slurry Yield 2.15 cf/sk) +

3% bwoc Calcium Chloride +.25 lb/sk Cello Flake + .4% bwoc FL-52 +

8% bwoc Bentonite + .4% bwoc Sodium Metasilicate + 3 lb/sk Pheno Seal

+ 116.1 % Fresh Water. Volume: 629 cf., includes 50% excess.

Tail with 97 sks Type III Cement (14.0 ppg, slurry Yield 1.54 cf/sk) + 2%

bwoc Calcium Chloride + .25 lb/sk Cello Flake + .2% bwoc FL-52 +

68.9% Fresh Water. Volume: 148 cf., includes 50% excess. Two (2)

centralizers will be run on the bottom two joints, then every 10th joint thereafter or (+ or -) 400' and turbolators to impact a swirling action will be placed just below and into the base of the Ojo Alamo.

5) Mud Program:

0' - 150' -Spud mud and water treated with gel lime. 150' - 2340' -Lime mud, water and polymer.