

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0136  
Expires: February 28, 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input type="checkbox"/> DEEPEN <input checked="" type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. NM-9016	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR St. Mary Land & Exploration Company			7. UNIT AGREEMENT NAME	
3. ADDRESS AND TELEPHONE NO. Coastal Management Corporation 915/688-0767 P.O. Box 2726, Midland, TX 79702-2726			8. FARM OR LEASE NAME, WELL NO. Inca Federal #8	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1943' FWL & 1980' FNL, Unit Letter "F" At proposed prod. zone Same			9. API WELL NO. 30-025-30323	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 11 miles south of Maljamar, NM			10. FIELD AND POOL, OR WILDCAT Young Wolfcamp North	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any) 1943		16. NO. OF ACRES IN LEASE 1004.23	17. NO. OF ACRES ASSIGNED TO THIS WELL 40	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1320		19. PROPOSED DEPTH 10,050'	20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3760' GL			22. APPROX. DATE WORK WILL START* Upon Approval	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
4 3/4"	4 1/2" J55	11.6#	8800'-10050'	80 sxs Class "H" (circ)

\*\* See attached Procedure

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Otto Swendsen TITLE OPERATIONS ENGINEER DATE 2/17/97

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

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.  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY (ORIG. SGD.) ARMANDO A. LOPEZ TITLE PETROLEUM ENGINEER DATE 2/26/97

\*See Instructions On Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

St. Mary Land & Exploration Company

3. Address and Telephone No.

c/o

915/688-0767

Coastal Management Corporation P.O. Box 2726, Midland, TX 79702

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1943' FWL & 1980' FNL, Sec 17, T18S, R32E

5. Lease Designation and Serial No.

NM - 9016

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Inca Federal #8

9. API Well No.

30-025-30323

10. Field and Pool, or Exploratory Area

Young Wolfcamp North

11. County or Parish, State

Lee, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☒ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

St. Mary Land & Exploration Company intends to deepen the above well to 10,050' and test the Wolfcamp zone.

\*\*See attached procedure.

14. I hereby certify that the foregoing is true and correct

Signed

Title

OPERATIONS ENGINEER

Date

2/17/97

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

\*See instruction on Reverse Side

**Inca Federal No. 1  
Young, North (Wolfcamp) Field  
Lea County, New Mexico  
Procedure to Test Wolfcamp**

**September, 12, 1996**

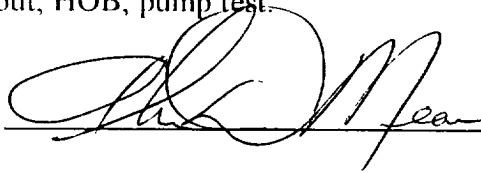
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**Procedure**

1. MIRU Pride Well Service, Hold Safety Meeting.
2. PU Baker full bore pkr and 2 7/8" N-80 tbg, RIH to 4600' set pkr test CIBP @ 8290'.
3. PUH to 4100' pmp into Grayburg perms @ 4440'-50', establish rate, cement squeeze perms, leave press on tbg. SDON.
4. POOH with tbg and pkr, PU 4 3/4" bit and 8-DC' drill out cmt squeeze, test, RIH. Drill out CIBP at 8290', RIH to 9200'. Circulate hole clean, POOH.
5. PU Pkr, RIH to 8650', tst backside to 300psi. Establish rate down tbg into perms 8799' to 9080', cement squeeze perms, leave press on tubing. SDON.
6. POOH with tbg and pkr, PU 4 3/4" bit and 8-DC drill out cement squeeze, tst, RIH to 9200' drill out float collar and shoe, cut 1' of new formation, circulate hole clean, POOH.
7. Go to 24 hour operations. PU 4 3/4" button bit, 20-DC's and 2 7/8" drill pipe. "Slick up" drilling fluid, drill new hole to 10,050'. Catch samples.
8. At TD of 10,050' circulate hole clean and spot viscous mud pill. POOH.
9. PU DST tools run DST in Wolfcamp, SI and flow times to be determined. Rel DST pkrs rev. out, POOH.
10. RU Wireline Co. run CNL/FDC, dual laterolog with GR from TD to base of 5 1/2" casing at 9284'.
11. RIH with 4 3/4" bit DC's and drill pipe to TD circ to run liner. POOH.
12. PU 4 1/2" float shoe, 1 joint 4 1/2" FJ, float collar, 1250'± 4 1/2" liner, Hyflo 3 liner hanger, and tie back on 2 7/8" tubing. Land liner @ 10,049'.
13. RU BJ cement liner with 80 sx class "H" as per attached recommendation. Flush with 2% KCL. Rel liner and rev cement, POOH w/ tbg. WOC.
14. RU Wireline Company, Run GR/CCL from PBTD to 9,000'. Perforate Wolfcamp as per open hole logs.
15. PU 10 jts. 2 3/8" N-80 tubing, 4 1/2" packer, 71 joints 2 3/8" N-80 and 242± jts 2 7/8" N-80 tbg, RIH.

16. Spot 2 bbl of 15% MCA across Wolfcamp perms using 2% KCL. Set pkr, acidize perms with 1000 gallons 15% MCA using 20 ball sealers. 6-8 BPM, Flush with 2% KCL.
17. Swab test well to recover load.
18. Rel pkr POOH, LD pkr, RIH with 2  $\frac{3}{8}$ " X 2  $\frac{7}{8}$ ", 7500'-2  $\frac{7}{8}$ ", 2500'-2  $\frac{3}{8}$ ", Set TAC above liner.
19. ND BOP NU WH, PU pump, 203- $\frac{3}{4}$ ", 97- $\frac{7}{8}$ " and 96-1", all high strength rods.
20. Space out, HOB, pump test.

Prepared by:



Date:

9/13/96

Alan D. Means, Operations Manager