

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE  
(Other instructions on  
reverse side)Form approved.  
Budget Bureau No. 42-R1425.

30-041-20860

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☒

## 2. NAME OF OPERATOR

Ph.915-684-7921

BOYD &amp; McWILLIAMS ENERGY GROUP, INC.

## 3. ADDRESS OF OPERATOR

300 W. Texas, Ste.704

Midland, Texas 79701

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)

At surface

(Unit M) 510' FSL 510' FWL Sec.8-8S-38E

At proposed prod. zone

Same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

15 miles east of Milnesand, New Mexico

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

510'

## 16. NO. OF ACRES IN LEASE

320

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

1470'

## 19. PROPOSED DEPTH

5000' San Andres

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

80

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3990.4 GL.

## 22. APPROX. DATE WORK WILL START\*

As Soon As Possible

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/2"	8-5/8"	24# J-55	500'±	300± sx (Circulate)
7-7/8"	5-1/2"	14# K-55	5000'±	300± sx

Propose to drill to 5000' and complete as an oil producer in the San Andres formation. See attached Surface Use Plan.

Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate all porosity zones. Selectively perforate favorable zones. See attached Drilling Data.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Test to tanks.

Any associated gas has not been dedicated.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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

JERRY W. LONG

TITLE Permit Agent

DATE November 7, 1990

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

S/Levi Deike, Acting

TITLE

Area Manager

DATE

12-21-90

CONDITIONS OF APPROVAL, IF ANY:

PLEASE BE ADVISED THAT THERE WILL BE NO EXCAVATION OF FEDERALLY OWNED MINERAL MATERIAL FOR CONSTRUCTION OF THE ACCESS ROAD OR PAD WITHOUT PAYMENT IN ADVANCE.

APPROVAL OF THIS APPLICATION 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.

# OIL CONSERVATION DIVISION

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

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

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

## WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section



Operator <b>Boyd &amp; McWilliams Energy Group, Inc.</b>			Lease <b>Amoco Federal</b>		
Unit Letter <b>M</b>	Section <b>8</b>	Township <b>8 South</b>	Range <b>38 East</b>	County <b>NM/M Roosevelt</b>	

Actual Footage Location of Well: <b>510</b> feet from the <b>South</b> line and <b>510</b> feet from the <b>West</b> line					
Ground level Elev. <b>3990.4</b>	Producing Formation <b>San Andres</b>	Pool <b>Bluitt San Andres Assoc.</b>	Dedicated Acreage: <b>80</b> Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.

2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

### SINGLE LEASE

3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

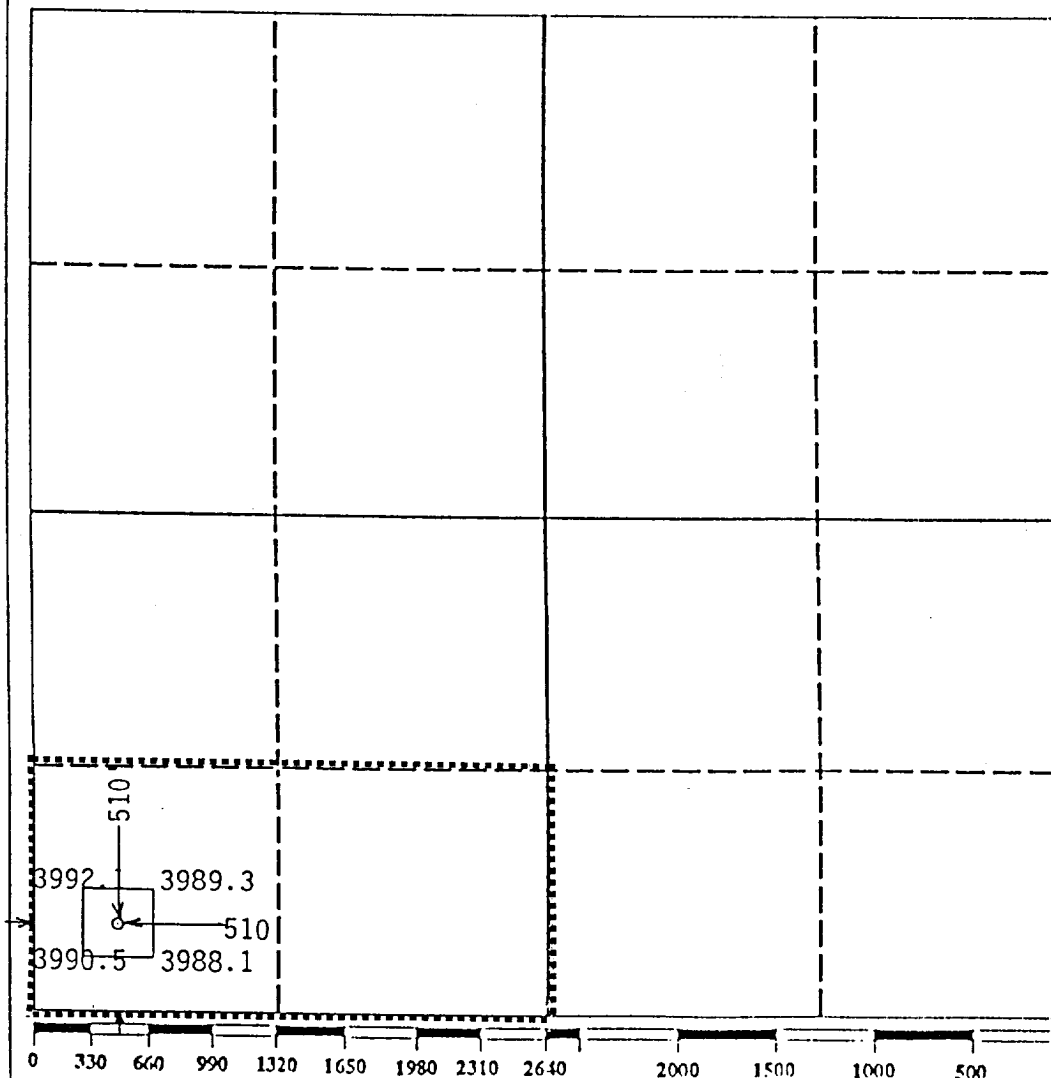
☐ Yes

☐ No

If answer is "yes" type of consolidation

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



### OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature  
*Jerry W. Long*  
Printed Name  
**JERRY W. LONG**  
Position  
**Permit Agent**

Company  
**BOYD & McWILLIAMS  
ENERGY GROUP, INC.**

Date  
**October 27, 1990**

### SURVEYOR CERTIFICATION

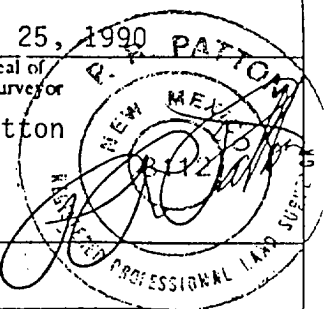
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
**October 25, 1990**

Signature & Seal of  
Professional Surveyor

**P.R. Patton**

Certificate No.  
**8112**



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Q13  
KODAK SAFETY FILM



SUPPLEMENTAL DRILLING DATA

BOYD & McWILLIAMS ENERGY GROUP, INC.  
No.1 Amoco-Federal  
510'FSL 510'FWL Sec.8-8S-38E  
Roosevelt County, N.M.

NM-0560261

The following items supplement Form 3160-3 in accordance with instructions contained in Onshore Oil and Gas Order No.1:

1. SURFACE FORMATION: Tertiary

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler	2290'
Salt	2460'
Yates	2690'
San Andres	3920'

3. ESTIMATED DEPTHS TO WATER, OIL OR GAS FORMATION:

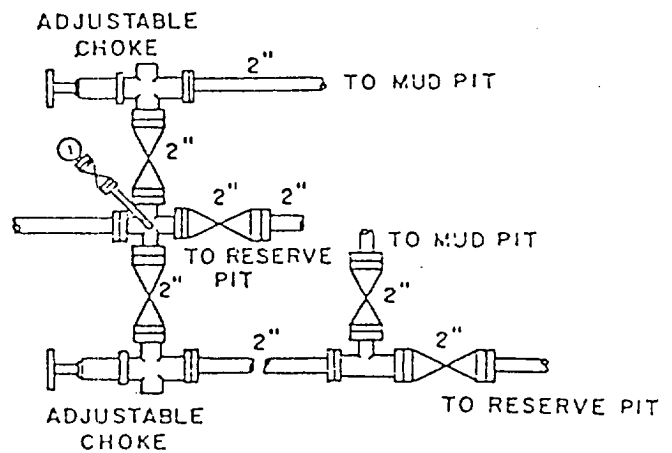
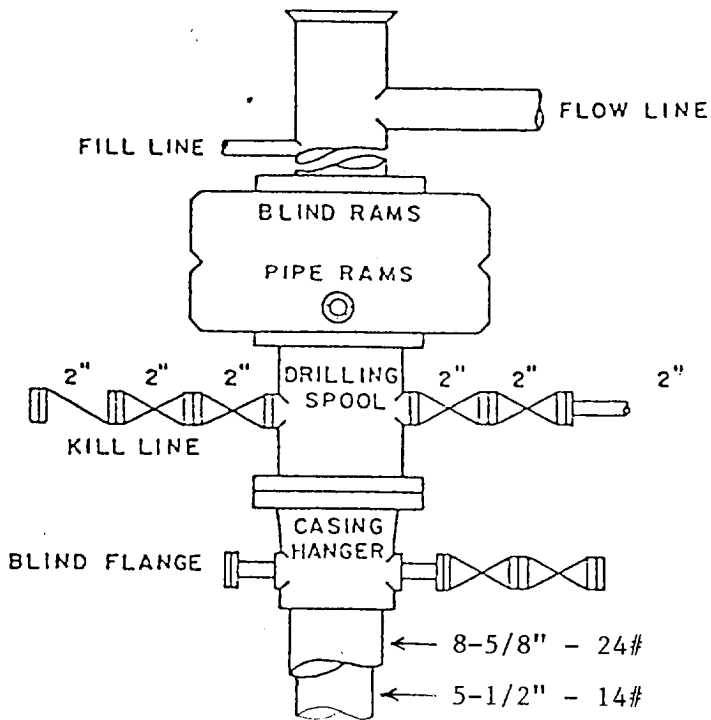
Water -	0' - 200'
Gas -	4650' - 4675'
Oil -	4675' - TD

4. PROPOSED CASING PROGRAM:

8-5/8" Casing	- Set 500' of 24# J-55 Surface Casing Tested to 600 Psi.
5-1/2" Casing	- Set 5000' of 14# K-55 Production Casing Tested to 1000 Psi.

5. PRESSURE CONTROL EQUIPMENT: A 2000 Psi. pressure control system will be used. This will include a Series 900 double hydraulic BOP with proper manifolds. Due to the partially depleted condition of the reservoir, it is requested that a waiver be granted to permit testing BOP equipment to 1000# using rig pumps, instead of testing to the normal 2000#.

BOYD & McWILLIAMS ENERGY GROUP, INC.  
No.1 Amoco-Federal  
510'FSL 510'FWL Sec.8-8S-38E  
Roosevelt County, N.M.



BOP DIAGRAM

2000# Working Pressure  
Rams Operated Daily

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OFFICE  
HOBBS