the oil coms. Commission DRAWER DD

ARTESIA, SNMT 88210 ICATE

(Other instructions on reverse side) **UNITED STATES**

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

5. LEASE DESIGNATION AND SERIAL NO.

Form 3160-3 (July 1992)

DEPARTMENT OF THE INTERIOR

	BUREAU O	F LAND MANA	GEMEN	(T		NM 34247		
APPLICATION FOR PERMIT TO DRILL OR DEEPEN					6. IF INDIAN, ALI	OTTER OR	TRIBE NAME	
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Collins & Wa	re, Inc.					9. API WELL NO		1 120
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Exh. #2- Existing Roads 4- D. Rig Layout 2A- Planned Access Roads 5- Prod. Fac. La					-		· .	() 1011
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3A-	- Well Status							NL- API
ABOVE SPACE DESCRIBE	E PROPOSED PROGRAM: nent data on subsurface locati	If proposal is to deepen ions and measured and	, give data true vertica	on present productive zone I depths. Give blowout preve	and proposed	new productive zone	. If propos	al is to drill or
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PERMIT NO.				APPROVAL DATE				
Application approval does n	ot warrant or certify that the a	pplicant holds legal or e	quitable titl	e to those rights in the subject	lease which wo	ould entitle the applican	t to conduct	operations then
CONDITIONS OF APPROVAL	, IF ANY:							4002
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APPROVED BY CORIC	SGD.) RICHARD	I. MANIIS			NUEK	DATE		
WINDLESS COUNTY	with siverall					_ DVIE		

*See Instructions On Reverse Side

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

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

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

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					Lease		, .			Well No.	
COLLINS & WARE, INC.				SHEEP DRAW FEDERAL				8			
Unit Letter				Range			Cox	ınty	·		
G		33	22	SOUTH	26 E	AST	NMP:	Л	EDDY	COUNTY,	NM
Actual Footage Loca	ation of	Well:									
1980	feet f		ORTH	line and	1980		feet from	n the	EAST	line	
Ground level Elev.		Producing	Formation		Pool				Dedicated Acreage:		eage:
3294.		Delaw	are		Нарру	Valley				40	Acres
1. Outline	1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.										
2. If more	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).										
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DRILLING PROGRAM

COLLINS & WARE, INC.
SHEEP DRAW FEDERAL # 8
1980' FNL & 1980' FWL, UNLTR G, Sec. 33, T22S, R26E
EDDY COUNTY, NM

BLM

The following information is filed in accordance with New Mexico Oil Conservation Rules and Regulations:

1. <u>SURFACE FORMATION</u>: Quaternary

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Delaware	1680′
Cherry Canyon	2550 ′
Bone Springs	4950′

3. ESTIMATED DEPTH TO FRESH WATER:

Possible fresh water 100'-300'

ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Delaware (below 1700')

No other formations are anticipated to give up commercial quantities of hydrocarbons.

The fresh water sands will be protected by setting 13 3/8" casing at 350'and circulating cement back to surface. First intermediate 8 5/8" casing will be set at 1650' and cement circulated back to surface. The 5 1/2" production string will be set at 5000' and cement circulated back to surface.

4. PROPOSED CASING AND CEMENTING PROGRAM:

Casing	Interval	Casing OD	WT., Grade, Joint, Condition
Hole Size			54.5
17.5"	0-350′	13 3/8"	48-61 #, K-55, ST&C, New
11.0"	0-1650′	8.5/8"	24#, J-55, ST&C, New
7.875"	0- 5000' 5050'	5 1/2"	15.5#,K-55,LT&C,New

Cement:

13 3/8" Surface Csg.: Cemented with 400 sacks of Class "C" with 2% CaCl. Circulate cement.

- 8 5/8" First Intermediate: Cemented with 425 sacks of 50-50 Pozmix cement tailed in with 225 sacks of Class "C" with 2% CaCl. Cement to circulate.
- 5 1/2" Prod. Csg.: Cemented with 400 sacks of Lite cement tailed in with 250 sacks of Class "C" with 1% CaCl to circulate to surface.

Page 2- Drilling Program
Collins & Ware, Inc., Sheep Draw Fed. # 8

5. PRESSURE CONTROL EQUIPMENT:

Blowout prevention equipment, while drilling below surface casing will be a 3000 psi working pressure BOP stack. The BOP sketch is shown as Exhibit 1.

6. CIRCULATING MEDIUM:

Surface to 500': Fresh water spud mud: viscosity 30 to 33 as required for hole cleaning, 8.5-8.8#/gal.

500' to 1650': Fresh water with lost circulation material as required, 28-30 viscosity, pH 9-10, weight 8.5-8.8#/gal.

1650'to TD: 10# brine system circulating reserve pit. Weight 9.5-10#, ph 9-10, viscosity 30-36, with mud sweeps as required. Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the well site at all times.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- A. An upper kelly cock will be used.
- B. The drilling fluids system will be visually monitored at all times.
- C. A mud-logging unit will monitor drilling penetration rate and hydrocarbon shows from somewhere below the intermediate casing. (tentative)

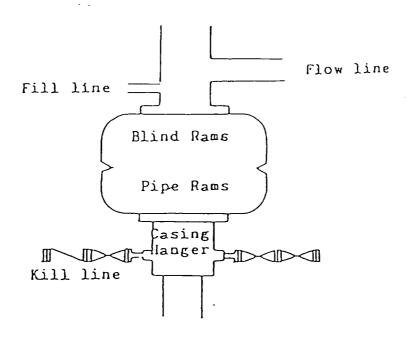
8. TESTING, LOGGING, AND CORING PROGRAMS:

- A. No drill stem tests are planned.
- B. Compensated Neutron/LDT Log GR and Dual Laterolog w/ MSFL. The Gamma Ray Log will be continued back to surface.
- C. Mud-logging unit will be used below 2700'.
- D. A set of sidewall cores is anticipated.
- E. Other testing procedures may be used after the production casing has been set depending on shows and other testing indicators.

9. <u>ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES, & POTENTIAL HAZARDS</u>:

No abnormal pressures or temperatures are anticipated. The estimated bottom-hole temperature (BHT) at TD is 90F and the estimated maximum bottom hole pressure (BHP) is about 1400 psi. No hydrogen sulphide (H2S) or other hazardous fluids are known to exist at this depth and area. No lost circulation zones are anticipated.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS: It is planned that operations will commence shortly after approval of this application, with drilling and completion operations lasting about 30 days. A decision as to design and installation of permanent facilities will be made after adequate testing of the well.



Blowout Preventer 3000 psi working pressure

EXHIBIT I

COLLINS & WARE, INC.

SHEEP DRAW FEDERAL NO.8

1980' FNL & 1980' FEL

Sec. 33, I-22-5, R-26-E

Eddy County, NM

SURFACE USE AND OPERATIONS PLAN

FOR

COLLINS & WARE, INC.

SHEEP DRAW FEDERAL WELL NO. 8

1980' FNL & 1980' FWL, G, Sec. 33, T22S, R26E

EDDY COUNTY NM

LOCATED: 3.9 miles SW of Carlsbad, NM.

FEDERAL LEASE NUMBER: NM-34247

ACRES IN LEASE: 360

TERM: HBP

LESSEE: Collins & Ware, Inc.

SURFACE OWNERSHIP: Federal

GRAZING PERMITEE: Bill Gillock

159 Gillock Rd. Carlsbad, NM 88220

POOL: Happy Valley (Delaware)

POOL RULES: SWR: 40 acre spacing for oil.

EXHIBITS: 2. Existing roads

2A. Planned access roads

3. One-Mile Radius Map showing lease boundary and

wells

3A. Well Status

4. Drilling Rig Layout

5. Production Facilities Layout

Page 2 - Surface use and operations plan Collins & Ware, Sheep Draw Fed. # 8

1. EXISTING ROADS:

- A. Exhibit #2 is a portion of a map showing the location of the proposed well as staked.
- B. Exhibit #2A is a topo map showing existing pertinent roads in the vicinity of the proposed well site.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The lease road to be constructed will be about 700' +- long and about 12' wide.
- B. Surfacing Material: Caliche, watered, compacted and graded.
 - C. Maximum Grade: Less than one per cent (1%).
 - D. Turnouts: None necessary.
- E. Drainage Design: Any new road will be crowned with drainage to the side.
 - F. Culverts: None needed.
 - G. Gates and Cattleguards: None will be necessary.
 - H. Cuts and Fills: Very little necessary.
- I. Existing access roads to the proposed wellsite will be used in their present state. Off-lease access approval will be executed under the Sheep Draw # 1 location.

3. LOCATION OF EXISTING WELLS:

A. Existing wells within a one-mile radius are shown on Exhibit #3. There are no disposal, injection, and/or observation wells.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

A. Necessary production facilities for this proposed well will be located on the well pad. A layout of the production facilities is shown in Exhibit #5.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is not planned that a water supply well will be drilled. Water necessary for drilling operations will be purchased and trucked from commercial water stations to the well site, or will be moved to the well site by temporary pipeline laid on the ground along-side existing and proposed roads.

6. SOURCE OF CONSTRUCTION MATERIALS:

A. Caliche needed for construction work will be taken from commercial sources located in the area.

Page 3 - Surface and operations plan Collins & Ware, Sheep Draw # 8

7. METHODS OF HANDLING WASTE MATERIAL:

- A. Drill cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
- C. Water produced during tests will be disposed of in the drilling pits. After the well is permanently placed on production, produced water will be collected in fiberglass or steel tanks until hauled by transport to an approved disposal system.
- D. Oil produced during tests will be stored in test tanks until sold.
- E. Trash, waste paper, garbage and junk will be stored in a covered, above-ground container. All waste material will be contained to prevent scattering by the wind. Location of the trash container is shown on Exhibit #4. No toxic waste or hazardous chemicals will be produced by this operation. The container will be emptied when full and taken to an authorized disposal facility.
- F. All trash and debris will be removed from the well site within 30 days after finishing drilling and/or completion operations. No adverse materials will be left on location. The unused portion of the well site will be leveled and restored to BLM specifications. Only that part of the pad required for production facilities will be kept in use. In the event of a dry hole, only a dry hole marker will remain.
- G. If required, a portable, chemical toilet will be provided on the location for human waste during the drilling and completion operations.

8. ANCILLARY FACILITIES:

A. No airstrip, campsite, or other facilities will be built as a result of the operations of this well.

9. WELL SITE LAYOUT:

- A. Exhibit #4 shows the relative location and dimensions of the well pad, mud pits, reserve pit, and the location and orientation of major drilling rig components. No permanent living facilities are planned, but a temporary foreman/toolpusher's trailer will be on location during the drilling and completion operations.
- B. Clearing and leveling of the well site will be required. Top soil, if available, will be stockpiled per BLM specifications as determined at the on-site inspection. No major cuts will be required.
 - C. The pad and pit area are staked and flagged.

Page 4 - Surface use and operations plan Collins & Ware, Sheep Draw # 8

10.PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed from the well site. The location will also be levelled and cleaned of all trash and junk, to leave the well site in an as aesthetically pleasing condition as possible. Any part of the pad not needed for production facilities will have the top soil replaced and reseeded.
 - B. Unguarded pits containing fluids, if any, will be fenced.
- C. After abandonment, all equipment, trash, and junk will be removed and the well site will be cleaned. Any special rehabilitation requirements of the surface management agency will be complied with and accomplished as rapidly as possible.

11. OTHER INFORMATION:

- A. Topography The land surface in the area is fairly level. In the immediate area of the well site, land slope is gentle down to the east.
- B. Soil Top soil at the well site is a loamy sand with some minor dune development.
- C. Flora and Fauna The vegetation cover is medium and includes mesquite, shinnery oak, sand sage, plains yucca, various weeds, and range grasses. Wildlife in the area is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, dove and quail.
- D. Ponds and streams No lakes, ponds, or streams are in the area.
- E. Residences and other structures There are no occupied dwellings or other structures, other than oil field related equipment, within a mile of the proposed well site.
- F. Archaeological, historical, and cultural sites None observed. However, an archaeological reconnaissance will be done and a report furnished.
- G. Land use Oil and gas production, grazing and wildlife habitat.
 - H. Surface ownership Federal with a grazing lease.

Page 5 - Surface use and operations plan Collins & Ware, Sheep Draw # 8

12.OWNER'S REPRESENTATIVE:

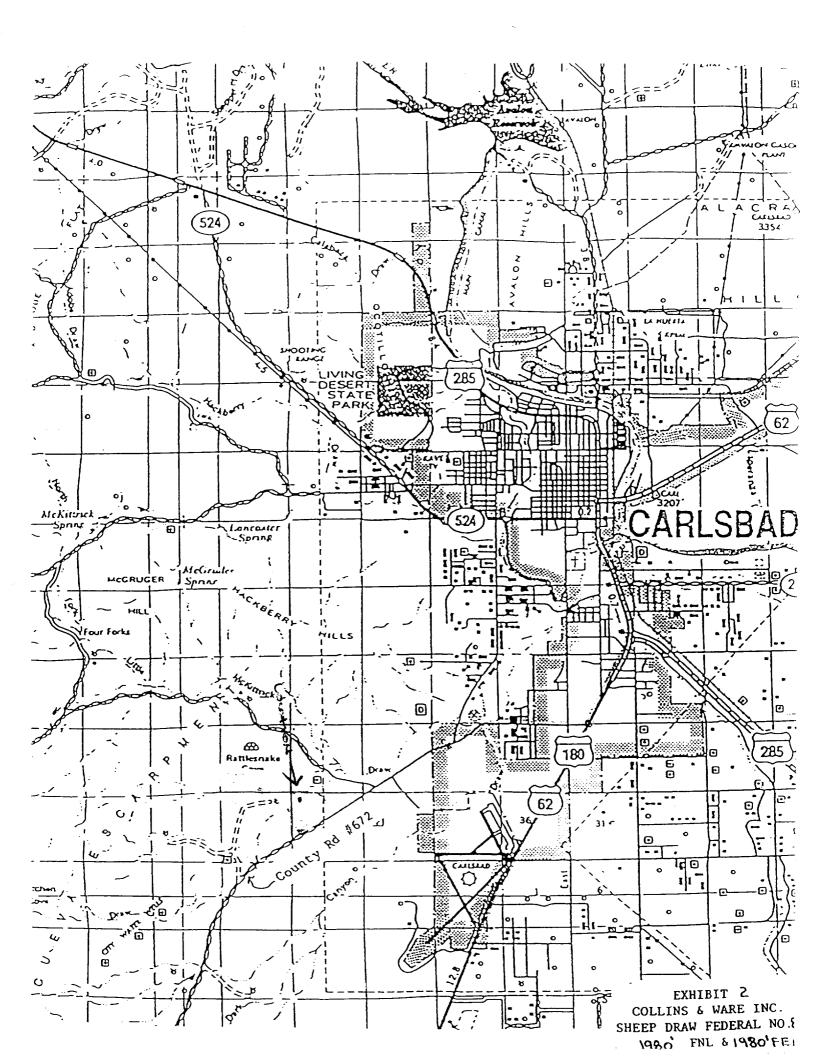
Max Guerry Collins & Ware, Inc. 303 W. Wall, Ste. 2200 Midland, TX 79701 Tel: 915-687-3435

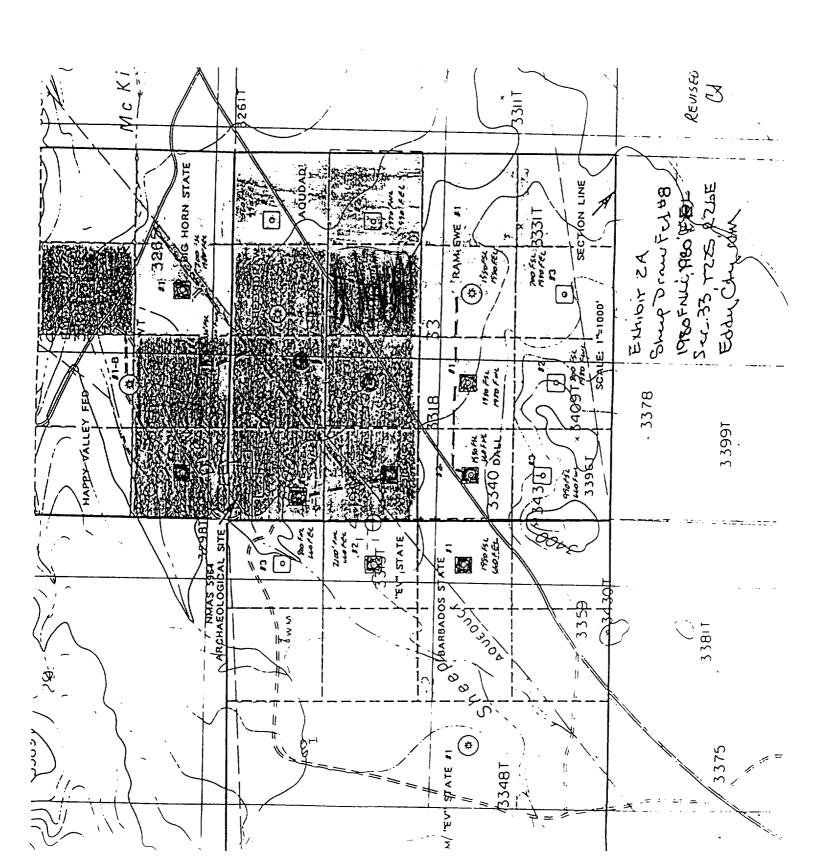
13.CERTIFICATION:

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 currently 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 Collins & Ware, Inc. 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.

Date: 7-16-93

Max Guerry Regulatory Manager





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EXHIBIT NO. 3A STATUS OF WELLS WITHIN ONE-MILE RADIUS COLLINS & WARE, INC. SHEEP DRAW FEDERAL #8 WELL SECTION 33, T-22-S, R-26-E, EDDY COUNTY, NEW MEXICO

T-22-S, R-26-E

SECTION 27

Collins & Ware, Inc. Tomaino Fed. #1, 11751' TD, 1980' FSL & 660' FWL, Morrow Prod.

SECTION 28

Collins & Ware, Inc. Happy Valley "B" Fed. #1, 11692' TD, 1471' FSL & 1908' FWL, Morrow Prod.

SECTION 33

Collins & Ware, Inc. Sheep Draw #1, 11735' TD, 660' FNL & 2310' FEL, Strawn Prod.

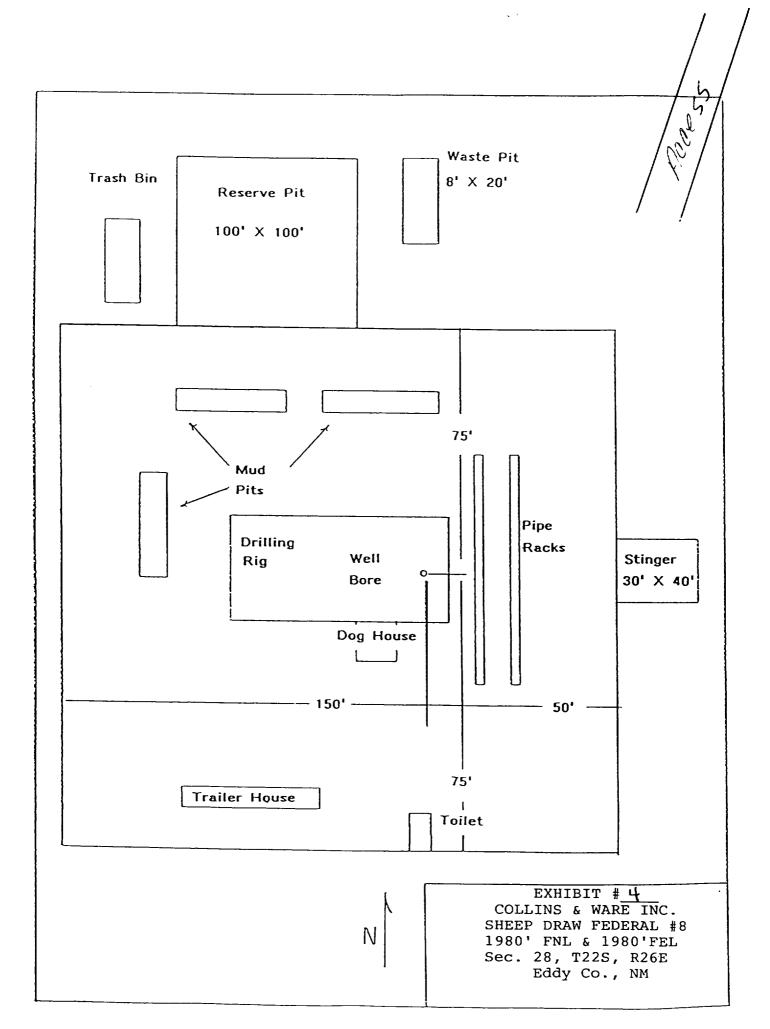
Collins & Ware, Inc. Sheep Draw #2, 4990' TD, 990' FNL & 2310' FWL, Delaware Prod.

Collins & Ware, Inc. Sheep Draw #3, 5000' TD, 1980' FNL & 1980' FWL, Delaware Prod.

T-23-S R-26-E

SECTION 4

Union Federal #1, 3508' TD, 660' FWL & 660' FNL, Dry Hole



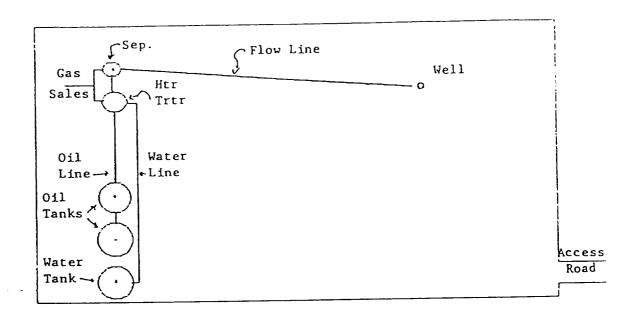


EXHIBIT # 5
PRODUCTION FACILITIES LAYOUT
Sheep Draw Federal No.8

Scale: None