Federal-21 Well No. 1
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FIL and FEL
Section 21-T215-R21E
Eddy County, New Mexico

### DRAWWORKS

Brewster N-55,

Drum: 1-1/8" Lebus grooved

Compound: 2-engine oil bath chain drive Brake: Hydromatic Parkersburg 40" Single

**ENGINES** 

Two 410-H.P. D353TA Caterpillar Diesel.

DERRICK

Lee C. Moore, 131', 550,000 lb. nominal capacity.

### SUBSTRUCTURE

Lee C. Moore, 10' high, 550,000 lb. nominal capacity.

#### MUD PUMPS

Pump No. 1: Emsco DB550, 550 H.P. with steel fluid end, 4%" - 7%" liners, 16" stroke. Compound-driven.

Pump No. 2: D 275 F.

Pump No. 2: D-375 Emsco driven by D353 Caterpillar.

### DRILL STRING

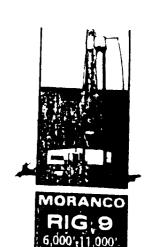
3000' 4½" Grade E, 20 lb.
Tool Joints: 4½" H-90, 6½" OD,
11000' 4" Grade E, 14.00 lb.
Tool Joints: 3½" H-90, 5" OD
Thirty Drilco spiral-grooved 6½" OD, 2½" ID'
With 4" H-90 Joints.
Other sized drillpipe & drillcoffars available.

## **BLOWOUT PREVENTERS**

One Shaffer LWS hydraulic double 10" x 900 series. One Hydril 10" x 900 series. Choke manifold 4" x 900 series flanged connections. Payne 4 valve accumulator closing unit.

### MUD SYSTEM

3 – 10' wide steel pits, with 660 Bbl. capacity. Complete low pressure circulating system, consisting of four submerged mud guns and two counter sunk jets in each pit. System utilizes a 6 x 8 centrifugal pump, powered by diesel.



## MUD HOUSE

One  $-8' \times 30'$  Steef Storage House.

# COMMUNICATIONS

24 Hom direct telephone interconnection through Hobbs (A.C. 505 397-3291) or Midland Odessa (A.C. 915 563-0562).

OTHER LOUIPMENT

BLOCKS McKissick 350 Ton

HOOK BJ4200 300 Ton

SWIVIT NAT N47 200 Ion

LIGHT PLANTS two 15 KW AC generators, powered by diesel engines.

AC fluorescent or mercury - All vapor proof.

SHALL SHAKER Link belt, single screen.

URI SH WATER STORAGE - two 500 Bbl., horizontal tanks.

HOUSING. 1 - 8' x 36' airconditioned trailer house, with sleeping and