

## DRILL STEM TESTS

Yates Petroleum Corporation - Federal "BR" No.  
1980' FNL & 660' FWL Sec. 7-16S-27E  
Eddy County, New Mexico

**RECEIVED**  
AUG 12 1971  
U. S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

### DST No. 1- 5650-5698'

TO 15 min, good blow SI 30 min, blow continued thru out SI.  
TO 2 hrs, blowing on 16/64" choke, 2# in 6 min., 1.5# in 10 min., 1#  
in 19 min. GTS in 53 min., estimated stabalized flow 20 MCFPD. SI 3 hrs.  
Pulled tools, recovered 240' DF, no lil; in chamber 1155 cc DF. 0.5 cu.  
ft. gas (50 psi). Tight formation.

#### Pressures:

IHP 2477- FHP 2454#; IFP 92; FFP 115#; ISIP 368#; FSIP 1469#; BHT 108 deg. F.

### DST No. 2 - 6810-6900'

TO 15", IF - NGTS. Weak blow, increased to strong blow in 10". ISI 30"  
Weak blow, continuing at end of ISI. FF 120". Weak blow, increasd to  
strong blow in 10", remained strong throughout FF NGTS, FSI 240".  
Recovered: 300' mud. 1420' water, slightly salty.

Pressures: IHP 3249, FHP 3225; IFP 138-298; FFP 345-780; ISIP 2529;  
FSIP (None obtained)\* - BHT 122 deg. F.

\*Picked up on tool too high and opened bypass valve. Did not record any  
FSIP.

### DST No. 3 - 6900-7105'

TO 15", SI 1 hr. TO 1½ hrs, SI 3 hrs. Opened with weak blow. GTS in 50"  
flowed 30 MCFPD, trace of distillate. Recovered: 1020' of salt water  
and GCDM, trace of distillate. Pressures: IFP 293; FFP 381; ISIP 2731;  
FSIP 2671; IHP 3414; FHP 3414. BHT (None).

### DST #4 - 7467-7513' (Strawn)

OP 15", SI 1 hr. OP 2½ hrs. SI 4 hrs. Opened with good blow. GTS in 16".  
TSTM. Opened after ISI with strong blow of gas, 10# in 1", 34# in 30",  
60" 43# on 1/4" choke. Rate 80 MCFPD. Recovered: 70' GCDM. Sampler:  
At 2200#, 1.3 cu. ft. gas, 100 cc GCM. BHT 146 deg. Pressures: IFP 115;  
FFP 151; ISIP 2856; FSIP 2812; IHP 3654; FHP 3642.

### DST No. 5 - 7788-7835'

TO 12", SI 30", OP 1 hr. SI 2 hrs. TO with strong blow, GTS in 14". Rec:  
100' GCDM. Pressures: IHP 3699; FHP 3699; IFP 132; FFP 120; ISIP 1041;  
FSIP 1643.

### DST No. 6 - 8537-8635

OP 15", SI 1 hr. OP 1 hr, SI 2 hrs. Preflow open with weak blow throughout.  
Final open with no blow, very weak blow after 1 min. Continued throughout  
test. Recovered: 120' of mud, no shows. BHT 163 deg. F. Sampler: 2000 cc  
mud, chlorides 2400 ppm. Pressures: IFP 90, FFP 127; ISIP 3682; FSIP 3392;  
IHP 4262; FHP 4262.

### DST No. 7 - 8637-8680' (Continued on next page.)