

ATTACHMENT - FORM 9-330
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DRILL STEM TESTS

OPERATOR: J.M. Huber Corporation

LEASE & WELL NUMBER: O'Neill - Federal No. 1

LOCATION: 1980' FN&EL Section 23, T-23-S, R-26-E,
Eddy County, New Mexico

DST #1, 10,906-936' (Atoka). Opened tool with very weak blow with slight increase on 10 minute preflow. Re-opened tool on FF with very weak blow increasing to fair blow, no GTS. Recovered 1350' fresh WC + 180' DF. Sample Chamber pressure 400 psi recovered 0.5 CFG + 1750 cc's DF.

IHP 6236#
PFP 625#/0:10
ISIP 4911#/1:00
FFP 661#/1:00
FSIP 4911#/2:00
FHP 6236#
BHT 182 Degrees F

DST #2, 11,470-684' (Morrow). Opened tool and recovered 1200' WC & rat hole mud on preflow. GTS estimated 5 minutes. Pressure gauge valves plugged. Re-opened on FF w/following gauges on 1/2" choke:

5 minutes	650 psi	4350 MCFPD
7 "	1000 "	6500 "
10 "	1200 "	7750 "
15 "	1500 "	9750 "
20 "	1700 "	11,000 "
30 "	1825 "	12,000 "
45 "	1800 "	11,750 "
60 "	1750 "	11,250 "

Recovered 60' DF and estimated 5' condensate. Sample Chamber pressure 2000 psi, recovered 15 CFG, no fluid.

IHP 6636#
PFP 3930#/0:20
ISIP 5038#/2:00
FFP 3204#/1:00
FSIP 4548#/2:00
FHP 6600#
BHT 194 Degrees F