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MAY 26 1975

DRILL STEM TESTS

Yates Drilling Company
Avalon Federal No. 2 - NM 0375257
Section 18-21S-27E
Eddy County, New Mexico

O. C. C.
ARTESIA, OFFICE

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U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DST #1 3737-3887' - OP 30"; SI 90"; OP 120"; SI 240". (Delaware Sand)
OP w/immediate strong flow and remained throughout initial flow. No
GTS. 2nd OP w/immediate strong blow and remained steady. GTS 100".
Recovered - 601' of fluid, 25' of oil and 576' of SCGW. BHT 92 deg.
Sampler: - 100#, 0.4 CFG, 300 cc oil and 1550 cc water.
Pressures: - HP 1684-1703; IFP 134-241; ISIP 508; FFP 348-348; FSIP 654

DST #2 9022-9220' - Wolfcamp - TO 30"; SI 90"; OP 75"; SI 180".
TO w/good blow, off bucket in 45 sec. GTS in 36". TO w/strong blow 20#
in 1" and decreased to 4# in 75". Recovered: - 60' High Gravity Green
Oil, 360' GCM. BHT 148 deg. Sampler: - .555 cfg, 150#, no fluid.
Pressures: - HP 4447-4447; IF 106-123; ISIP 1724; FFP 71-106; FSIP 3314

DST #3 9832-9945' (Wolfcamp) - TO 37"; SI 163"; TO 90"; SI 270".
TO w/weak blow, increased to strong blow. Re-opened w/strong blow and
remained steady. Had difficulty in opening tool. Valid test.
Pressures: HP 4731-4822; IF 140-210; ISI 5141; FF 186-256; FSI 5005.

DST #4 11017-11347' (Morrow) -- Ran 1000' WB(Fresh Water).
TO 10"; SI 60", OP 30", SI 75", OP 60", SI 180". TO w/weak blow,
increased to off bottom of bucket in 40 sec, open to pit on 1/4" choke,
pressure increased steadily to 47# in 6", changed to 1/2" choke and pressure
climbed to 900# in 8" estimated GTS in 7". Mud to surface in 8".
Plugged choke. Cleaned choke and reopened on 2nd flow on 1/2" choke.
pressure increased. Recovered - 90' DF, 135' water (thought to be fresh)
Sampler - 23.6 cfg at 2550 psig, no fluid. BHT 170 deg.
Pressures: HP 5705-5663; IF 2977-3272; ISI 4788; 2nd F 3061-3821;
ISI 4746; 3rd F 3061-3610; FSI 4746.