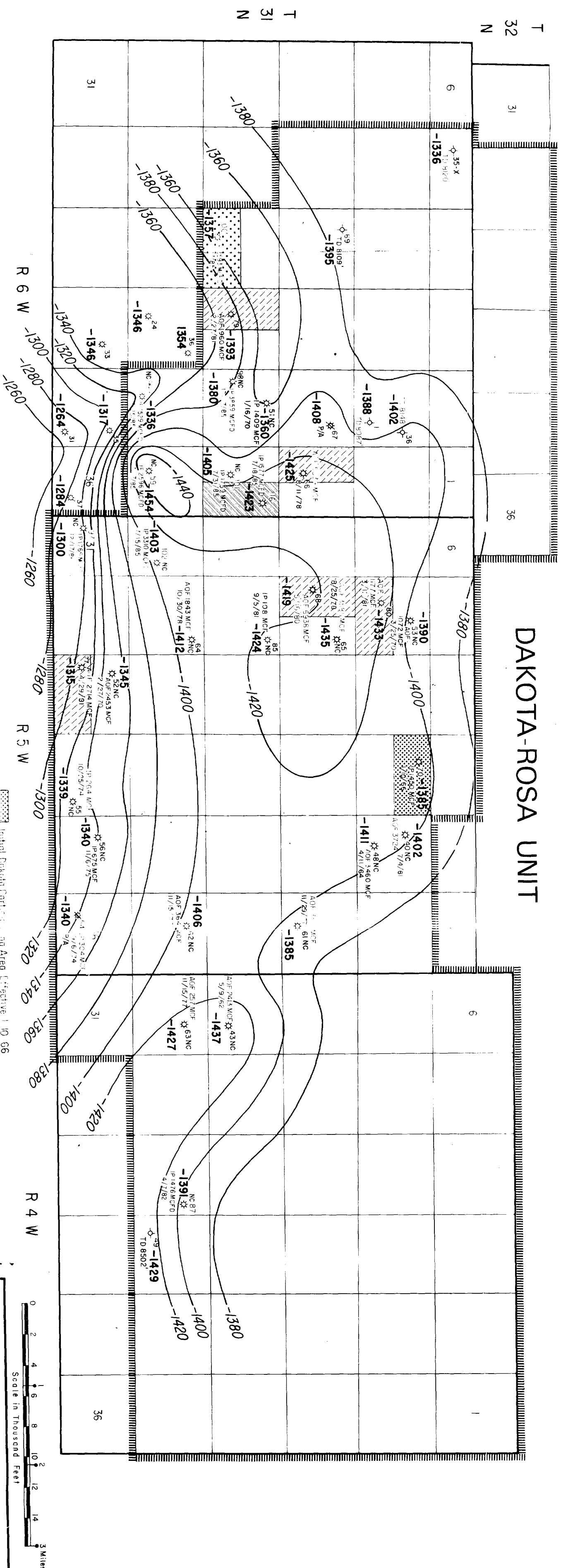


DAKOTA-ROSA UNIT



Non Commercial Production
Dakota Formation Wells
Plugged and Abandoned
Dry Hole

Initial Dakota Portion, and Area Effective 1-10-66
Previous Expansions of the Dakota Participating Area
6th Expansion of the Dakota Participating Area, Effective Date 11-1-84
7th Expansion of the Dakota Participating Area, Effective Date 1-1-85

0 2 4 6 8 10 12 14 3 Miles
Scale in Thousand Feet

NORTHWEST PIPELINE CORPORATION
ONE OF THE WILLIAMS COMPANIES

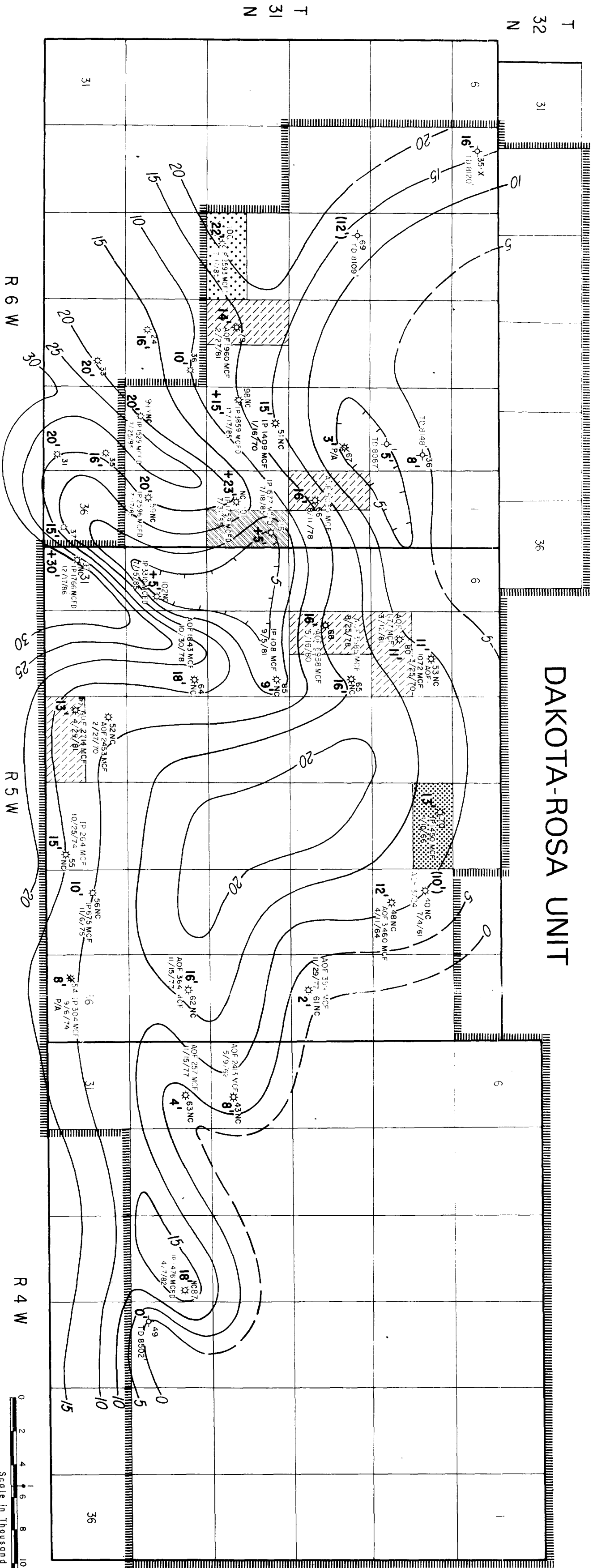
DAKOTA - ROSA UNIT
SAN JUAN, RIO ARriba CO's, NEW MEXICO

STRUCTURE MAP

Datum: Top of Greenhorn Limestone
Mean: Sea Level

Contour Interval = 20 feet

Compiled: Mike Turnbaugh
Drafting: M.B. Andersen
Date: June, 1989
Revised:



NC - Non Commercial Production
Dakota Formation Wells
Plugged and Abandoned
Dry Hole

In full Dakota Participating Area Effective 1-10-66
Previous Expansions of the Dakota Participating Area
6th Expansion of the Dakota Participating Area; Effective Date 11-1-84
7th Expansion of the Dakota Participating Area; Effective Date 1-1-85

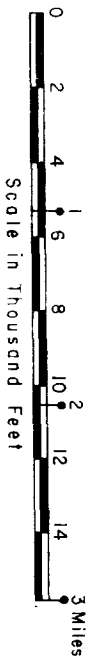
0 2 4 6 8 10 12 14 3 Miles
Scale in Thousand Feet

NORTHWEST PIPELINE CORPORATION
ONE OF THE WILLIAMS COMPANIES

DAKOTA - ROSA UNIT
SAN JUAN, RIO ARriba CO.s, NEW MEXICO

NET SAND THICKNESS MAP
Upper Dakota Sandstone (A Zone)
40 OHMS Cut-Off
(10') From Gamma-Neutron or Gamma-Density Log
Contour Interval = 5 feet

Compiled: Mike Turnbaugh
Drafting: M.B. Andersen
Date: June, 1989
Revised:



DAKOTA - ROSA UNIT
SAN JUAN, RIO ARriba COs, NEW MEXICO

GROSS SAND THICKNESS MAP

40 OHMS Cut-Off
(44) From Gamma-Neutron Log

Compiled: <i>Mike Turnbaugh</i>	Date: <i>June, 1989</i>
Drafting: <i>M. B. Andersen</i>	Revised: