

**T
31
N**

**T
30
N**

R9W

 MESAVERDE PRODUCTION

ISOPACH
NET PAY > 6% DENSITY Ø
MESAVERDE GROUP
C.I.= 20'

G. L. Jennings 2/90

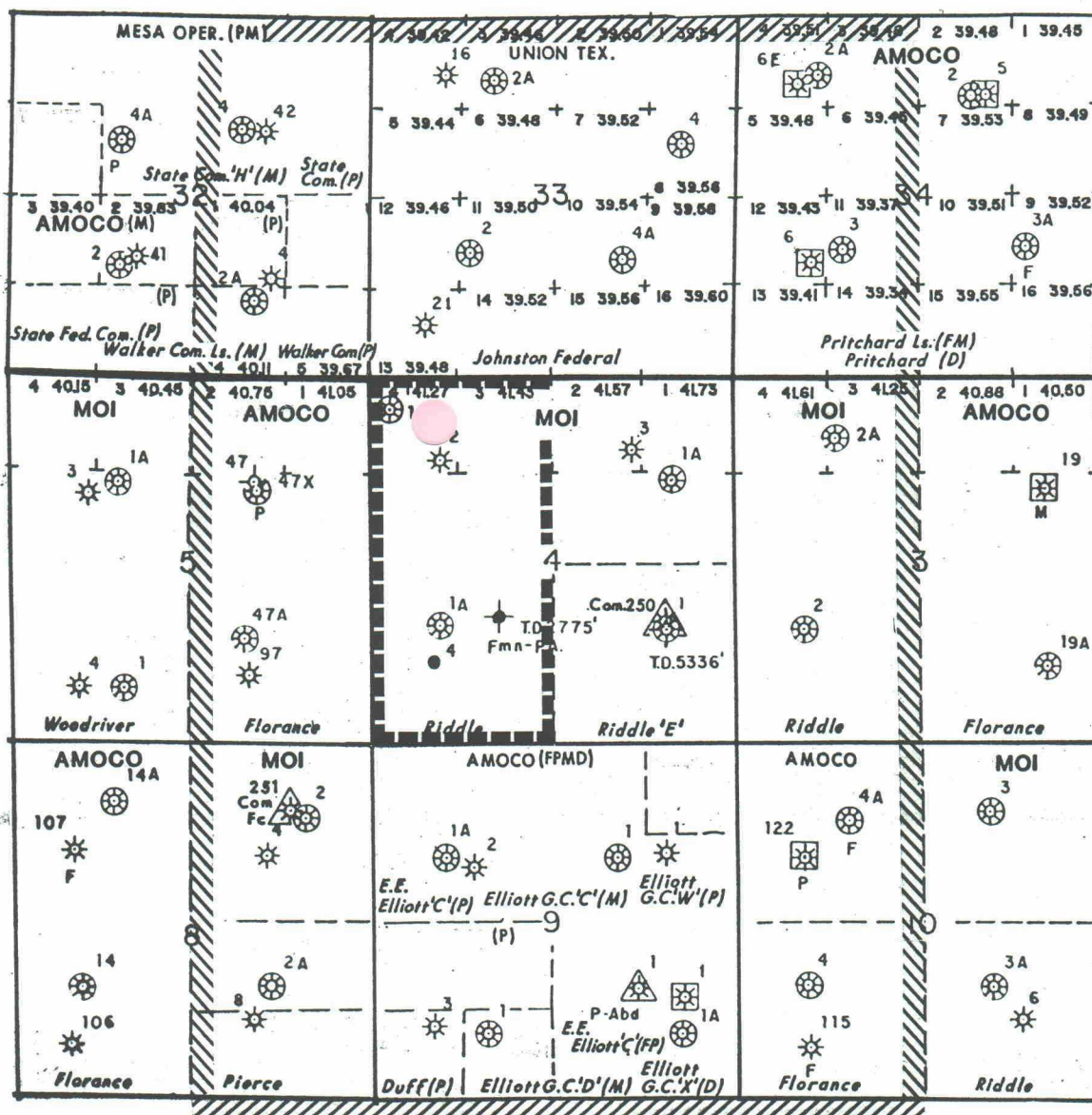
PRORATION EXAMPLE

Assumptions

- * "D" = Q_g = 2700 MCFD
- * Annual allocations for the Mesaverde Pool will average 163 BCF which is 12% higher than the 1989 Pool Total.
- * Average Decline Rate of 5% per Year
- * Proration Allocation Utilizes 1 X "D" of the Highly Deviated well

RESULTS

- * Highly deviated well produces 7.5 months and is 12 X's overproduced
- * Subsequently the well could produce 4 1/2 months per year to remain 11.9 X's overproduced.

R 9 W

**T
30
N**



**OFFSET OPERATOR
NOTIFICATION AREA**



SPACING UNIT

SUBJECT WELL SPOT

MERIDIAN OIL

RIDDLE #1R
SEC. 4, T30N - R9W
OFFSET OPERATOR PLAT
SAN JUAN COUNTY, N. M.

Amoco = TOC-Rocky Mountains Inc. c/o Amoco

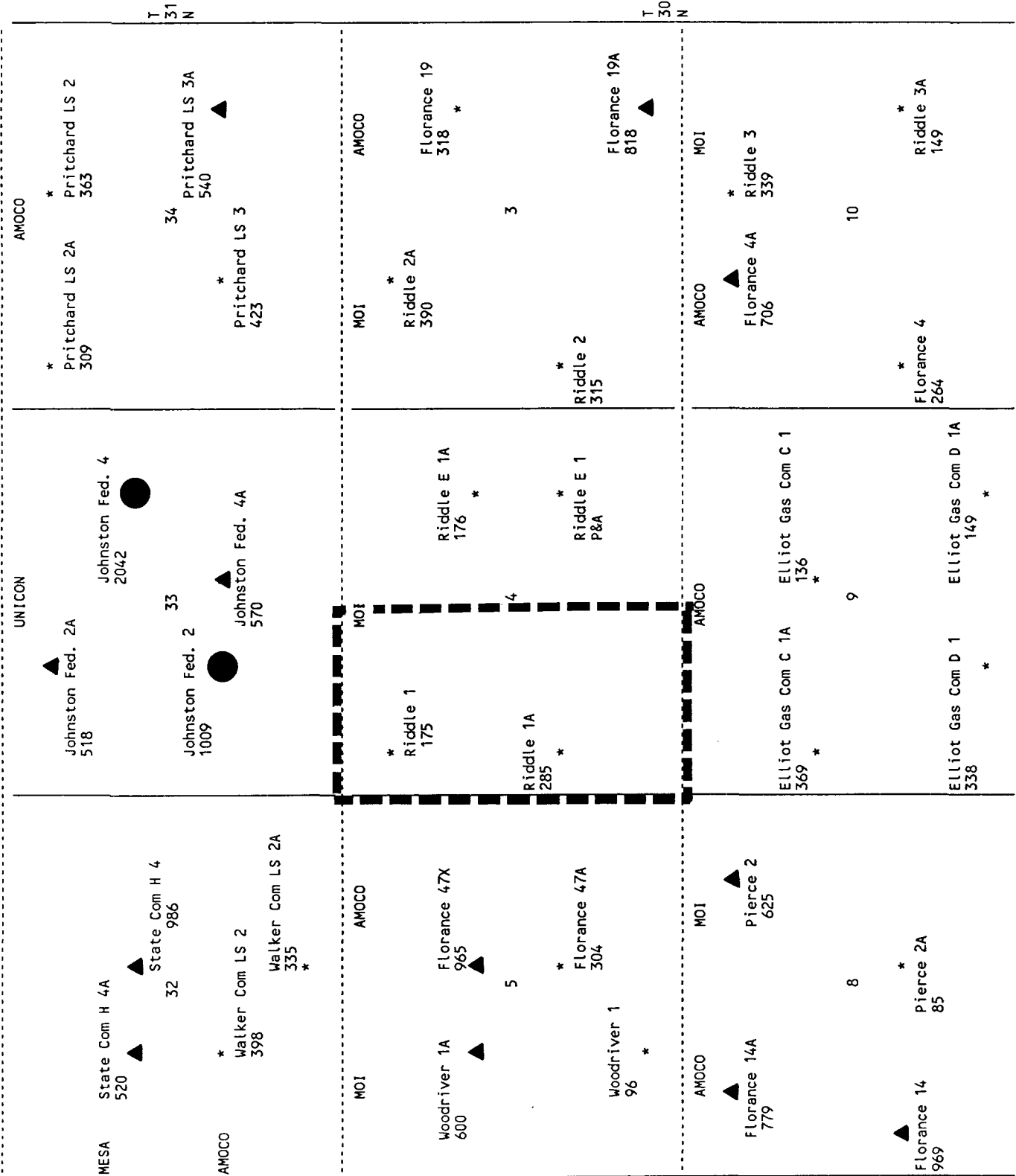
Landman: Bob Hopkins

c.a.g.

Aug. 1989

RIDDLE 1R 9 - SECTION PLAT

DATE: 7/14/89
NAME: STATE DELIVERABILITY
FORMATION: Mesaverde
LOCATION: 9 SEC. PLAT
T30N & T31N, R09W

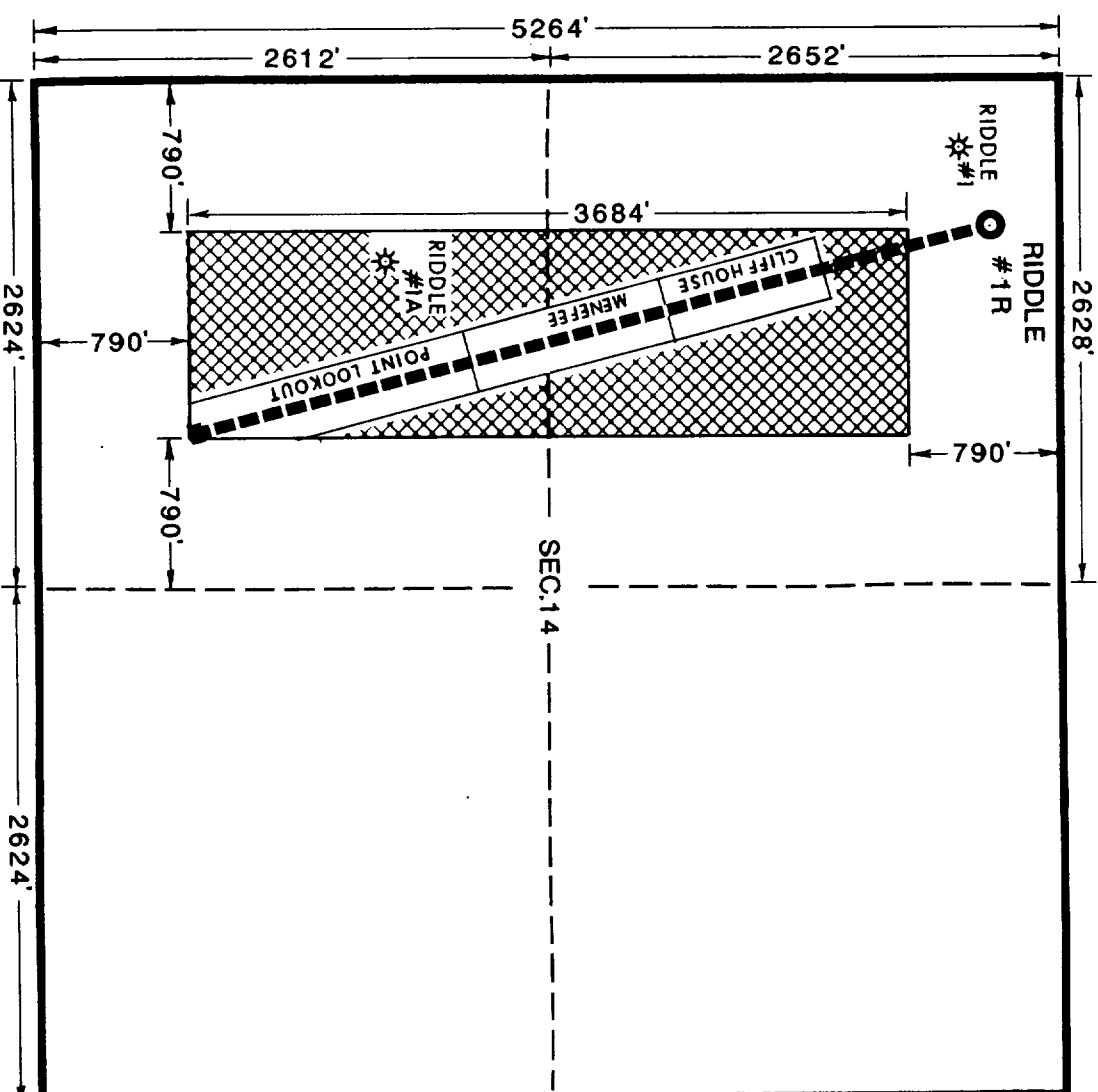
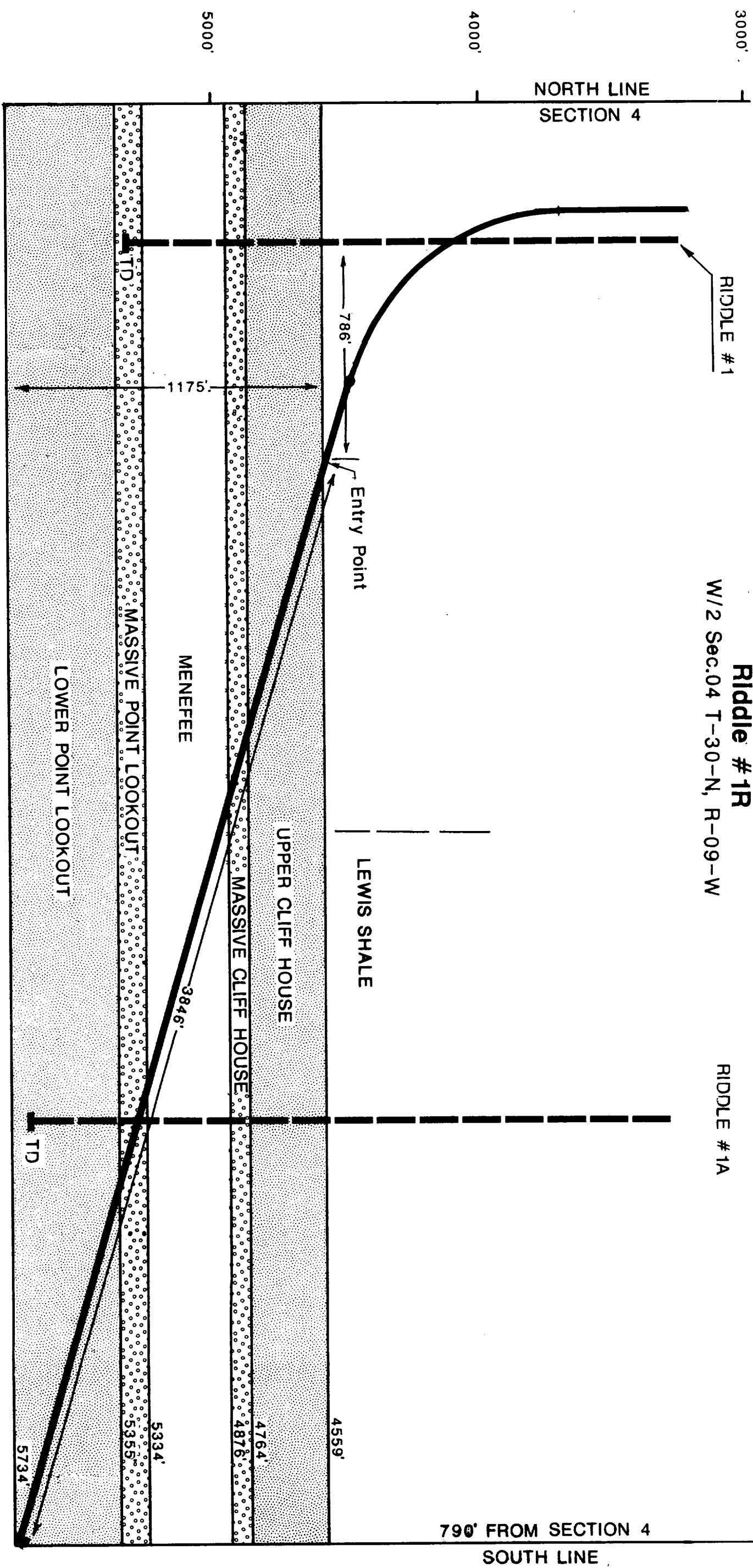


SOUTH

Riddle #1R

W/2 Sec.04 T-30-N, R-09-W

RIDDLE #1A



DISADVANTAGES

- | | |
|--|---|
| 1. MORE EFFICIENTLY DRAIN THE MESAVERDE BY INCREASING THE FORMATION CONTACT AREA AND THEREBY INCREASING THE PROBABILITY OF INTERSECTING UNDRAINED GAS POCKETS AND/OR GREATER PERMEABILITY REGIONS. | 1. HIGH MECHANICAL RISK OF FAILURE. |
| 2. UTILIZE HIGH ANGLE RAMP TO "SPREAD" DRAINAGE PATTERN OVER THE 320 ACRES. | 2. HIGH COST. |
| 3. PROVIDE OPTIMUM INTERCEPT OF FORMATION WHERE TOPOGRAPHIC OR ENVIRONMENTAL CONCERNS RESTRICT SURFACE LOCATIONS. | 3. FAILURE TO INCREASE ULTIMATE RECOVERY BEYOND THAT OF VERTICAL WELL |

RIDDLE #1R
W/2 SEC.4, T-30-N, R-09-W
SAN JUAN COUNTY, NEW MEXICO
SCALE 1"= 1000 FT.