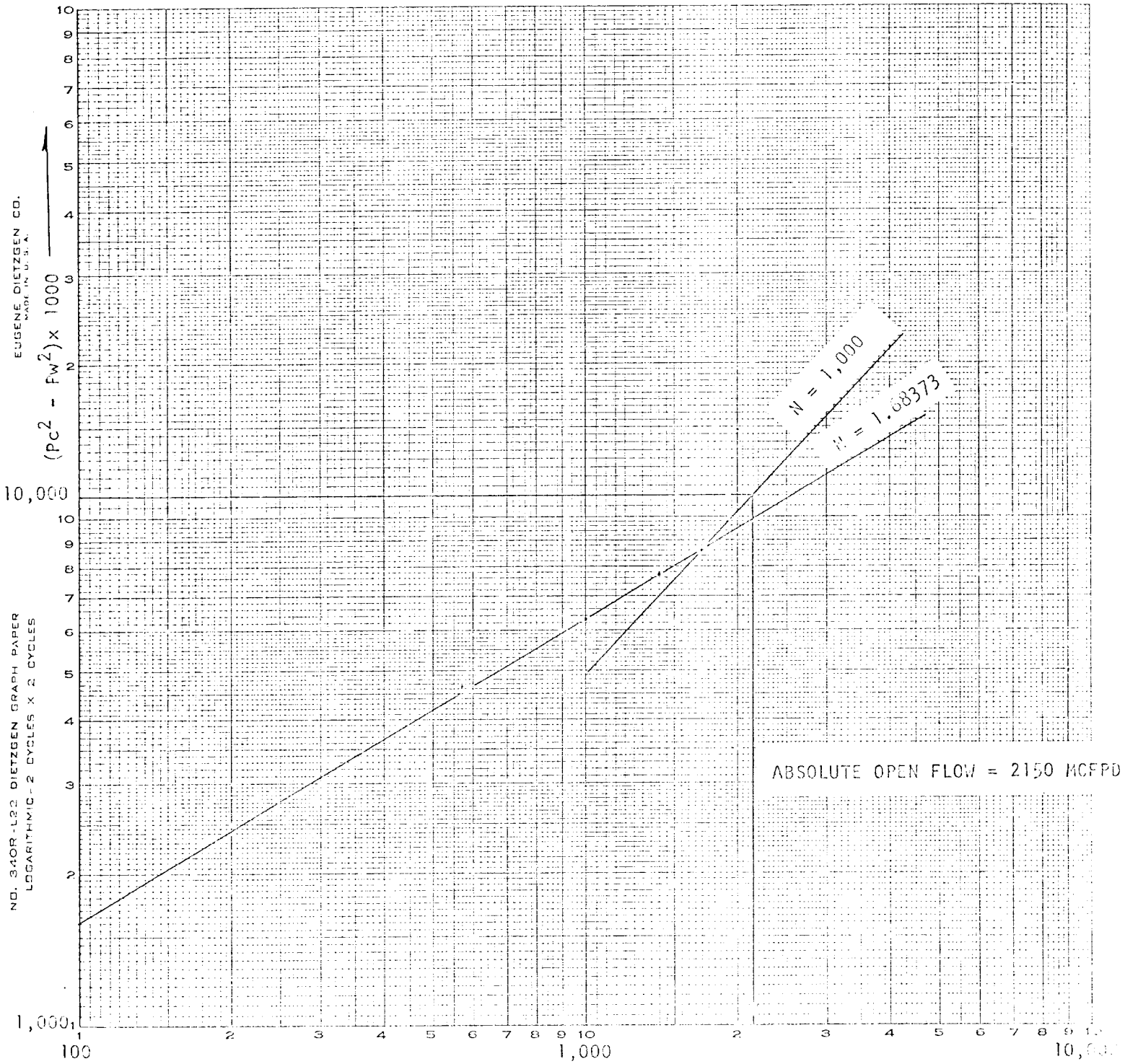


MARATHON OIL CO.  
 LEA UNIT, No. 4-U  
 H, 11, 20, 34E  
 LEA COUNTY, NEW MEXICO  
 11-18-69



Q1= 7,000 MCFPD, LOG= 3.84510  
 Q2= 145 MCFPD, LOG= 2.16137  
 SLOPE, N= 1.68373

Q, MCFPD

MARATHON OIL COMPANY  
 "Diagrammatic Sketch of Mechanical Equipment Used in Dual Completion"  
 Lea Unit, Well No. 4  
 Unit H, Sec. 11, T-20-S, R-34-E  
 Lea County, New Mexico  
 Revised 6-15-64

2-3/8" O.D., 4.7# XLN P-105 Tbg.  
 & 2-3/8" O.D., 4.7# EUE N-80 Tbg.

2-3/8" O.D., 4.7# Hardy Griffin  
 DS N-80 Tbg.

Devonian Production ←

→ Bone Springs Production

13-3/8" O.D. 54.5# Casing @  
 856.16'. Cemented w/750 sx.  
 Cement Circulated.

Gas Lift Valves

HOWCO 2-Stage Cement  
 Tool @ 3395'

9-5/8" O.D. 36# Casing @ 5008'.  
 Cemented 1st Stage w/600 sx.  
 Lite-Wate Cement followed by  
 200 sx. Regular Cement. Cement  
 Circulated. Cemented 2nd Stage  
 w/2000 sx. Lite-Wate Cement  
 followed by 100 sx. Regular  
 Cement. Cement Circulated.

Cement Top @ 5375'

Otis Hydr. Dual Pkr. w/"J"  
 Latch Seal Assy. set @ 9371.14'

Otis Hydr. Dual Pkr. w/"J" Latch  
 Seal Assy. set @ 9377.51'

Otis Type "Q" Nipple @ 9387.85'

Ann Collar @ 9389.61'

Spring Perforations  
 9389.9522' & 9389.9522', 168-10,176'

HOWCO 2-Stage Cement  
 Tool @ 10,599'

Circulating Valve @ 10,584'

Otis Position 2 "S" Nipple  
 @ 13,849.13'

Otis RH Pkr. @ 13,843.76'

Baker Anchor Seal Assy. Unit

5 X 7 BOT SS Liner Pkr. w/Tie  
 Back Sleeve @ 13,925'

Model "D" Production Pkr.  
 @ 13,885'

BOT Boll Weevil Liner Hanger  
 @ 13,934'

7" O.D. 36# Casing set @ 14,040'.  
 Cemented 1st Stage w/1250 sx.

Inferno. Circ. Cemented  
 2nd Stage w/1250 sx. Inferno Cmt.

Otis Type "S" Nipple @ 14,400'

Cement Top @ 13,994'

Otis Type "J" Nipple @ 14,435'

Devonian Perf 14,420-424' &  
 14,450-482.5'

14,468'

PBTD 14,487'  
 TD 14,492'

4 1/2" O.D. 14.98# Hydril Liner  
 @ 14,490'. Cmt. w/150 sx. Inferno

