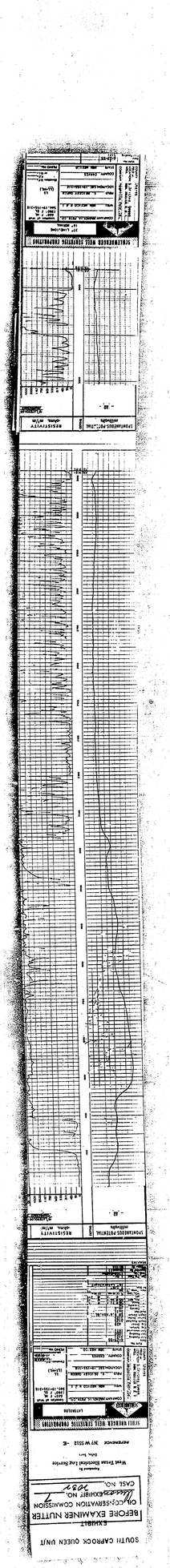
Case No.

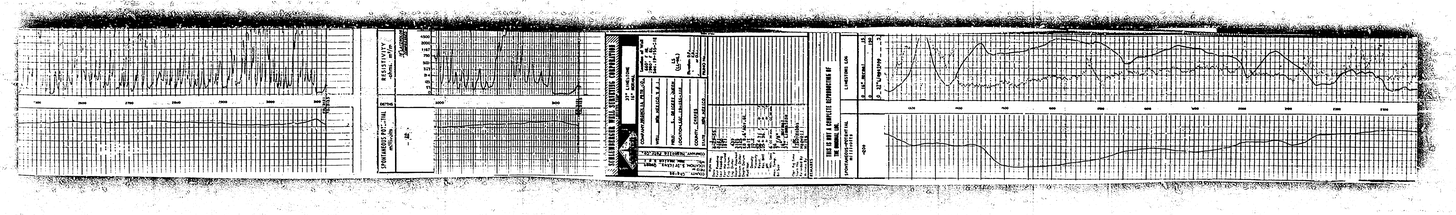
2032

Large Exhibits

W.N.M.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

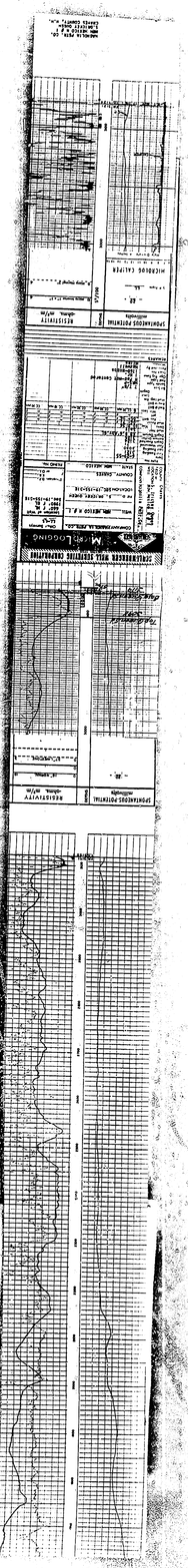

SOUTH CAPROCK QUEEN UNIT
EXHIBIT
BEFORE EXAMINER HUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 1
CASE NO. 7821
West Texas Electrical Log Service
Schlumberger WELL SURVEYING CORPORATION
LATEROLOG
SPONTANEOUS POTENTIAL
millivolts
RESISTIVITY
ohms M²/m
COMPANY AMOCO PROD. CO. (FORM. CO.)
WELL NO. 2 (SOUTH CAPROCK QUEEN UNIT)
FIELD SOUTH CAPROCK
COUNTY CHAVES
STATE NEW MEXICO
LOCATION: 1980' FSL & 660' FEL
SEC. 19 TWP. 13-S RGE. 31-E
PERMANENT DATUM GROUND LEVEL
ELEV. 4143
LOG MEASURED FROM KELLY BUSHING
DRILLING MEASURED FROM KELLY BUSHING
ELEV. K.B. 4153
D.F. 4152
G.L. 4143
DATE 7-28-78
RUN ONE
TYPE LOG LATEROLOG
DEPTH-DRILLER 5100
DEPTH-LOGGER 5100
BTM. LOG INTERVAL 5100
TOP LOG INTERVAL 4000
CASING-DRILLER 8 5/8" @ 1200'
CASING-LOGGER 1200
BIT SIZE 7 7/8"
TYPE FLUID IN HOLE SALT GEL
DENS. 10.0
VISC. 30
PH 10.5
FLUID LOSS 10 ml
SOURCE OF SAMPLE FLOWLINE
RM @ MEAS. TEMP. 1.10 @ 80°F
RMF @ MEAS. TEMP. .90 @ 80°F
RMC @ MEAS. TEMP. 1.40 @ 80°F
SOURCE OF RMF & RMC MEASURED
RM @ BHT 1.10 @ 80°F
TIME SINCE CIRC. 4 HRS.
MAX. REC. TEMP. 80°F
EQUIP. NO. & LOCATION 3777 HOBBS
RECORDED BY R. ROBERTS
WITNESSED BY MR. BELCHER
REMARKS: RUN WITH GUARD & R.A.
ANNOUNCE 3W W 5515 -E
Schlumberger

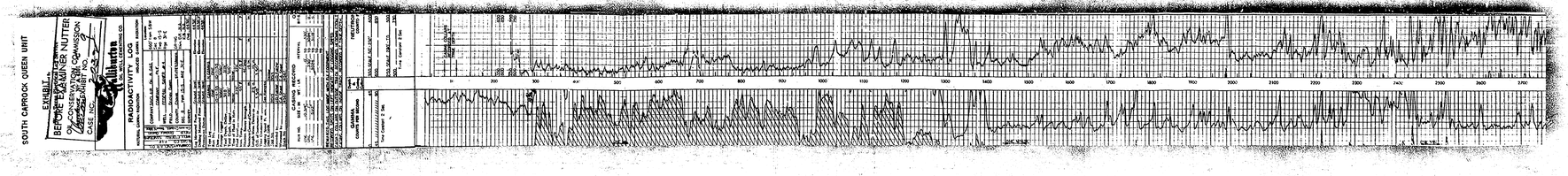


V.N.M.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

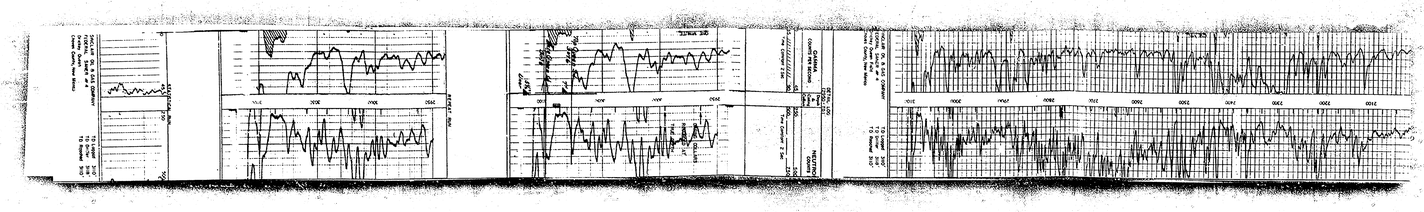
V.K.M.C.P. MICROGRAPHICS
BEST AVAILABLE COPY



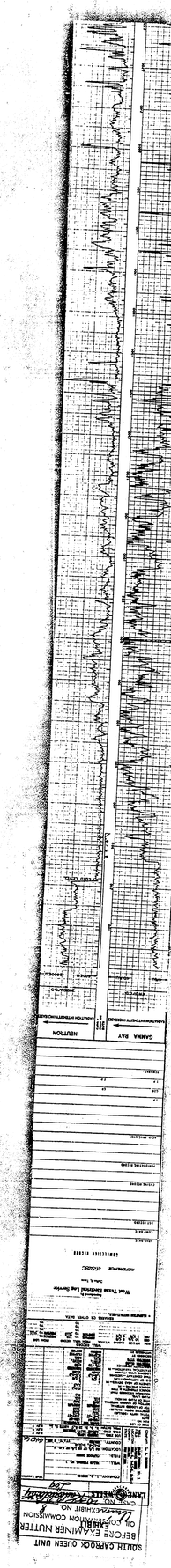


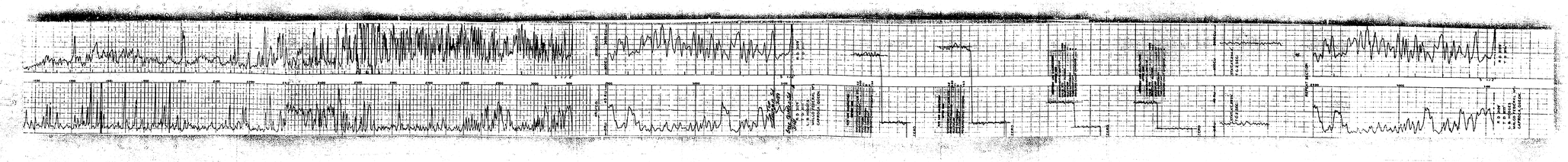
W.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY


V.L.M.C.P. NEUROGRAPHICS
BEST AVAILABLE COPY



N.M.A.G.P. MICROGRAPHICS
BEST AVAILABLE COPY





W.M.M.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

R-30-E

R-31-E

T 15 S

T 14 S

EDDY CO.

LEA CO.

CHAVES CO.

SOUTH CAPROCK QUEEN UNIT
CHAVES COUNTY, NEW MEXICO

AND MAP

EXHIBIT

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 1
CASE NO. 2037

Unit Boundary

Proposed Injection Wells

State

Federal

Fee

WW-3 Water Supply Wells

L-3615-A — Water Permit No.

GRAPHIC SCALE

1-12-60 E.J.M.

V.N.M.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

R. 30 E.

R. 31 E.

R. 32 E.

T. 12 S.

T. 13 S.

CHAVES CO.
LEA CO.

1400

1420

1440

1460

1480

1500

1520

1540

1560

1580

1600

1620

1640

1660

1680

1700

1720

1740

1760

1780

1800

1820

1840

1860

1880

1900

1920

1940

1960

1980

2000

2020

2040

2060

2080

2100

2120

2140

2160

2180

2200

2220

2240

2260

2280

2300

2320

2340

2360

2380

2400

2420

2440

2460

2480

2500

2520

2540

2560

2580

2600

2620

2640

2660

2680

2700

2720

2740

2760

2780

2800

2820

2840

2860

2880

2900

2920

2940

2960

2980

3000

3020

3040

3060

3080

3100

3120

3140

3160

3180

3200

3220

3240

3260

3280

3300

3320

3340

3360

3380

3400

3420

3440

3460

3480

3500

3520

3540

3560

3580

3600

3620

3640

3660

3680

3700

3720

3740

3760

3780

3800

3820

3840

3860

3880

3900

3920

3940

3960

3980

4000

4020

4040

4060

4080

4100

4120

4140

4160

4180

4200

4220

4240

4260

4280

4300

4320

4340

4360

4380

4400

4420

4440

4460

4480

4500

4520

4540

4560

4580

4600

4620

4640

4660

4680

4700

4720

4740

4760

4780

4800

4820

4840

4860

4880

4900

4920

4940

4960

4980

5000

5020

5040

5060

5080

5100

5120

5140

5160

5180

5200

5220

5240

5260

5280

5300

5320

5340

5360

5380

5400

5420

5440

5460

5480

5500

5520

5540

5560

5580

5600

5620

5640

5660

5680

5700

5720

5740

5760

5780

5800

5820

5840

5860

5880

5900

5920

5940

5960

5980

6000

6020

6040

6060

6080

6100

6120

6140

6160

6180

6200

6220

6240

6260

6280

6300

6320

6340

6360

6380

6400

6420

6440

6460

6480

6500

6520

6540

6560

6580

6600

6620

6640

6660

6680

6700

6720

6740

6760

6780

6800

6820

6840

6860

6880

6900

6920

6940

6960

6980

7000

7020

7040

7060

7080

7100

7120

7140

7160

7180

7200

7220

7240

7260

7280

7300

7320

7340

7360

7380

7400

7420

7440

7460

7480

7500

7520

7540

7560

7580

7600

7620

7640

7660

7680

7700

7720

7740

7760

7780

7800

7820

7840

7860

7880

7900

7920

7940

7960

7980

8000

8020

8040

8060

8080

8100

8120

8140

8160

8180

8200

8220

8240

8260

8280

8300

8320

8340

8360

8380

8400

8420

8440

8460

8480

8500

8520

8540

8560

8580

8600

8620

8640

8660

8680

8700

8720

8740

8760

8780

8800

8820

8840

8860

8880

8900

8920

8940

8960

8980

9000

9020

9040

9060

9080

9100

9120

9140

9160

9180

9200

9220

9240

9260

9280

9300

9320

9340

9360

9380

9400

9420

9440

9460

9480

9500

9520

9540

9560

9580

9600

9620

9640

9660

9680

9700

9720

9740

9760

9780

9800

9820

9840

9860

9880

9900

9920

9940

9960

9980

10000

10020

10040

10060

10080

10100

10120

10140

10160

10180

10200

10220

10240

10260

10280

10300

10320

10340

10360

10380

10400

10420

10440

10460

10480

10500

10520

10540

10560

10580

10600

10620

10640

10660

10680

10700

10720

10740

10760

10780

10800

10820

10840

10860

10880

10900

10920

10940

10960

10980

11000

11020

11040

11060

11080

11100

11120

11140

11160

11180

11200

11220

11240

11260

11280

11300

11320

11340

11360

11380

11400

11420

11440

11460

11480

11500

11520

11540

11560

11580

11600

11620

11640

11660

11680

11700

11720

11740

11760

11780

11800

11820

11840

11860

11880

11900

11920

11940

11960

11980

12000

12020

12040

12060

12080

12100

12120

12140

12160

12180

12200

12220

12240

12260

12280

12300

12320

12340

12360

12380

12400

12420

12440

12460

12480

12500

12520

12540

12560

12580

12600

12620

12640

12660

12680

12700

12720

12740

12760

12780

12800

12820

12840

12860

12880

12900

12920

12940

12960

12980

13000

13020

13040

13060

13080

13100

13120

13140

13160

13180

13200

13220

13240

13260

13280

13300

13320

13340

13360

13380

13400

13420

13440

13460

13480

13500

13520

13540

13560

13580

13600

13620

13640

13660

13680

13700

13720

13740

13760

13780

13800

13820

13840

13860

13880

13900

13920

13940

13960

13980

14000

14020

14040

14060

14080

14100

14120

14140

14160

14180

14200

14220

14240

14260

14280

14300

14320

14340

14360

14380

14400

14420

14440

14460

14480

14500

14520

14540

14560

14580

14600

14620

14640

14660

14680

14700

14720

14740

14760

14780

14800

14820

14840

14860

14880

14900

14920

14940

14960

14980

15000

15020

15040

15060

15080

15100

15120

15140

15160

15180

15200

15220

15240

15260

15280

15300

15320

15340

15360

15380

15400

15420

15440

15460

15480

15500

15520

15540

15560

15580

15600

15620

15640

15660

15680

15700

15720

15740

15760

15780

15800

15820

15840

15860

15880

15900

15920

15940

15960

15980

16000

16020

16040

16060

16080

16100

16120

16140

16160

16180

16200

16220

16240

16260

16280

16300

16320

16340

16360

16380

16400

16420

16440

16460

16480

16500

16520

16540

16560

16580

16600

16620

16640

16660

16680

16700

16720

16740

16760

16780

16800

16820

16840

16860

16880

16900

16920

16940

16960

16980

17000

17020

17040

17060

17080

17100

17120

17140

17160

17180

17200

17220

17240

17260

17280

17300

17320

17340

17360

17380

17400

17420

17440

17460

17480

17500

17520

17540

17560

17580

17600

17620

17640

17660

17680

17700

17720

17740

17760

17780

17800

17820

17840

17860

17880

17900

17920

17940

17960

17980

18000

18020

18040

18060

18080

18100

18120

18140

18160

18180

18200

18220

18240

18260

18280

18300

18320

18340

18360

18380

18400

18420

18440

18460

18480

18500

18520

18540

18560

18580

18600

18620

18640

18660

18680

18700

18720

18740

18760

18780

18800

18820

18840

18860

18880

18900

18920

18940

18960

18980

19000

19020

19040

19060

19080

19100

19120

19140

19160

19180

19200

19220

19240

19260

19280

19300

19320

19340

19360

19380

19400

19420

19440

19460

19480

19500

19520

19540

19560

19580

19600

19620

19640

19660

19680

19700

19720

19740

19760

19780

19800

19820

19840

19860

19880

19900

19920

19940

19960

19980

20000

20020

20040

20060

20080

20100

20120

20140

20160

20180

20200

20220

20240

20260

20280

20300

20320

20340

20360

20380

20400

20420

20440

20460

20480

20500

20520

20540

20560

20580

20600

20620

20640

20660

20680

20700

20720

20740

20760

20780

20800

20820

20840

20860

20880

20900

20920

20940

20960

20980

21000

21020

21040

21060

21080

21100

21120

21140

21160

21180

21200

21220

21240

21260

21280

21300

21320

21340

21360

21380

21400

21420

21440

21460

21480

21500

21520

21540

21560

21580

21600

21620

21640

21660

21680

21700

21720

21740

21760

21780

21800

21820

21840

21860

21880

21900

21920

21940

21960

21980

22000

22020

22040

22060

22080

22100

22120

22140

22160

22180

22200

22220

22240

22260

22280

22300

22320

22340

22360

22380

22400

22420

22440

22460

22480

22500

22520

22540

22560

22580

22600

22620

22640

22660

22680

22700

22720

22740

22760

22780

22800

22820

22840

22860

22880

22900

22920

22940

22960

22980

23000

23020

23040

23060

23080

23100

23120

23140

23160

23180

23200

23220

23240

23260

23280

23300

23320

23340

23360

23380

23400

23420

23440

23460

23480

23500

23520

23540

23560

23580

23600

23620

23640

23660

23680

23700

23720

23740

23760

23780

23800

23820

23840

23860

23880

23900

23920

23940

23960

23980

24000

24020

24040

24060

24080

24100

24120

24140

24160

24180

24200

24220

24240

24260

24280

24300

24320

24340

24360

24380

24400

24420

24440

24460

24480

24500

24520

24540

24560

24580

24600

24620

24640

24660

24680

24700

24720

24740

24760

24780

24800

24820

24840

24860

24880

24900

24920

24940

24960

24980

25000

25020

25040

25060

25080

25100

25120

25140

25160

25180

25200

25220

25240

25260

25280

25300

25320

25340

25360

25380

25400

25420

25440

25460

25480

25500

25520

25540

25560

25580

25600

25620

25640

25660

25680

25700

25720

25740

25760

25780

25800

25820

25840

25860

25880

25900

25920

25940

25960

25980

26000

26020

26040

26060

26080

26100

26120

26140

26160

26180

26200

26220

26240

26260

26280

26300

26320

26340

26360

26380

26400

26420

26440

26460

26480

26500

26520

26540

26560

26580

26600

26620

26640

26660

26680

26700

26720

26740

26760

26780

26800

26820

26840

26860

26880

26900

26920

26940

26960

26980

27000

27020

27040

27060

27080

27100

27120

27140

27160

27180

27200

27220

27240

27260

27280

27300

27320

27340

27360

27380

27400

27420

27440

27460

27480

27500

27520

27540

27560

27580

27600

27620

27640

27660

27680

27700

27720

27740

27760

27780

27800

27820

27840

27860

27880

27900

27920

27940

27960

27980

28000

28020

28040

28060

28080

28100

28120

28140

28160

28180

28200

28220

28240

28260

28280

28300

28320

28340

28360

28380

28400

28420

28440

28460

28480

28500

28520

28540

28560

28580

28600

28620

28640

28660

28680

28700

28720

28740

28760

28780

28800

28820

28840

28860

28880

28900

28920

28940

28960

28980

29000

29020

29040

29060

29080

29100

29120

29140

29160

29180

29200

29220

29240

29260

29280

29300

29320

29340

29360

29380

29400

29420

29440

29460

29480

29500

29520

29540

29560

29580

29600

29620

29640

29660

29680

29700

29720

29740

29760

29780

29800

29820

29840

29860

29880

29900

29920

29940

29960

29980

30000

30020

30040

30060

30080

30100

30120

30140

30160

30180

30200

30220

30240

30260

30280

30300

30320

30340

30360

30380

30400

30420

30440

30460

30480

30500

30520

30540

30560

30580

30600

30620

30640

30660

30680

30700

30720

30740

30760

30780

30800

30820

30840

30860

30880

30900

30920

30940

30960

30980

31000

31020

31040

31060

31080

31100

31120

31140

31160

31180

31200

31220

31240

31260

31280

31300

31320

31340

31360

31380

31400

31420

31440

31460

31480

31500

31520

31540

31560

31580

31600

31620

31640

31660

31680

31700

31720

31740

31760

31780

31800

31820

31840

31860

31880

31900

31920

31940

31960

31980

32000

32020

32040

32060

32080

32100

32120

32140

32160

32180

32200

32220

32240

32260

32280

32300

32320

32340

32360

32380

32400

32420

32440

32460

32480

32500

32520

32540

32560

32580

32600

32620

32640

32660

32680

32700

32720

32740

32760

32780

32800

32820

32840

32860

32880

32900

32920

32940

32960

32980

33000

33020

33040

33060

33080

33100

33120

33140

33160

33180

33200

33220

33240

33260

33280

33300

33320

33340

33360

33380

33400

33420

33440

33460

33480

33500

33520

33540

33560

33580

33600

33620

33640

33660

33680

33700

33720

33740

33760

33780

33800

33820

33840

33860

33880

33900

33920

33940

33960

33980

34000

34020

34040

34060

34080

34100

34120

34140

34160

34180

34200

34220

34240

34260

34280

34300

34320

34340

34360

34380

34400

34420

34440

34460

34480

34500

34520

34540

34560

34580

34600

34620

34640

34660

34680

34700

34720

34740

34760

34780

34800

34820

34840

34860

34880

34900

34920

34940

34960

34980

35000

35020

35040

35060

35080

35100

35120

35140

35160

35180

35200

35220

35240

35260

35280

35300

35320

35340

35360

35380

35400

35420

35440

35460

35480

35500

35520

35540

35560

35580

35600

35620

35640

35660

35680

35700

35720

35740

35760

35780

35800

35820

35840

35860

35880

35900

35920

35940

35960

35980

36000

36020

36040

36060

36080

36100

36120

36140

36160

36180

36200

36220

36240

36260

36280

36300

36320

36340

36360

36380

36400

36420

36440

36460

36480

36500

36520

36540

36560

36580

36600

36620

36640

36660

36680

36700

36720

36740

36760

36780

36800

36820

36840

36860

36880

36900

36920

36940

36960

36980

37000

37020

37040

37060

37080

37100

37120

37140

37160

37180

37200

37220

37240

37260

37280

37300

37320

37340

37360

37380

37400

37420

37440

37460

37480

37500

37520

37540

37560

37580

37600

37620

37640

37660

37680

37700

37720

37740

37760

37780

37800

37820

37840

37860

37880

37900

37920

37940

37960

37980

38000

38020

38040

38060

38080

38100

38120

38140

38160

38180

38200

38220

38240

38260

38280

38300

38320

38340

38360

38380

38400

38420

38440

38460

38480

38500

38520

38540

38560

38580

38600

38620

38640

38660

38680

38700

38720

38740

38760

38780

38800

38820

38840

38860

38880

38900

38920

38940

38960

38980

39000

39020

39040

39060

39080

39100

39120

39140

39160

39180

39200

39220

39240

39260

39280

39300

39320

39340

39360

39380

39400

39420

39440

39460

39480

39500

39520

39540

39560

39580

39600

39620

39640

39660

39680

39700

39720

39740

39760

39780

39800

39820

39840

39860

39880

39900

39920

39940

39960

39980

40000

40020

40040

40060

40080

40100

40120

40140

40160

40180

40200

40220

40240

40260

40280

40300

40320

40340

40360

40380

40400

40420

40440

40460

40480

40500

40520

40540

40560

40580

40600

40620

40640

40660

40680

40700

40720

40740

40760

40780

40800

40820

40840

40860

40880

40900

40920

40940

40960

40980

41000

41020

41040

41060

41080

41100

41120

41140

41160

41180

41200

41220

41240

41260

41280

41300

41320

41340

41360

41380

41400

41420

41440

41460

41480

41500

41520

41540

41560

41580

41600

41620

41640

41660

41680

41700

41720

41740

41760

41780

41800

41820

41840

41860

41880

41900

41920

41940

41960

41980

42000

42020

42040

42060

42080

42100

42120

42140

42160

42180

42200

42220

42240

42260

42280

42300

42320

42340

42360

42380

42400

42420

42440

42460

42480

42500

42520

42540

42560

42580

42600

42620

42640

42660

42680

42700

42720

42740

42760

42780

42800

42820

42840

42860

42880

42900

42920

42940

42960

42980

43000

43020

43040

43060

43080

43100

43120

43140

43160

43180

43200

43220

43240

43260

43280

43300

43320

43340

43360

43380

43400

43420

43440

43460

43480

43500

43520

43540

43560

43580

43600

43620

43640

43660

43680

43700

43720

43740

43760

43780

43800

43820

43840

43860

43880

43900

43920

43940

43960

43980

44000

44020

44040

44060

44080

44100

44120

44140

44160

44180

44200

44220

44240

44260

44280

44300

44320

44340

44360

44380

44400

44420

44440

44460

44480

44500

44520

44540

44560

44580

44600

44620

44640

44660

44680

44700

44720

44740

44760

44780

44800

44820

44840

44860

44880

44900

44920

44940

44960

44980

45000

45020

45040

45060

45080

45100

45120

45140

45160

45180

45200

45220

45240

45260

45280

45300

45320

45340

45360

45380

45400

45420

45440

45460

45480

45500

45520

45540

45560

45580

45600

45620

45640

45660

45680

45700

45720

45740

45760

45780

45800

45820

45840

45860

45880

45900

45920

45940

45960

45980

46000

46020

46040

46060

46080

46100

46120

46140

46160

46180

46200

46220

46240

46260

46280

46300

46320

46340

46360

46380

46400

46420

46440

46460

46480

46500

46520

46540

46560

46580

46600

46620

46640

46660

46680

46700

46720

46740

46760

46780

46800

46820

46840

46860

46880

46900

46920

46940

46960

46980

47000

47020

47040

47060

47080

47100

47120

47140

47160

47180

47200

47220

47240

47260

47280

47300

47320

47340

47360

47380

47400

47420

47440

47460

47480

47500

47520

47540

47560

47580

47600

47620

47640

47660

47680

47700

47720

47740

47760

47780

47800

47820

47840

47860

47880

47900

47920

47940

47960

47980

48000

48020

48040

48060

48080

48100

48120

48140

48160

48180

48200

48220

48240

48260

48280

48300

48320

48340

48360

48380

48400

48420

48440

48460

48480

48500

48520

48540

48560

48580

48600

48620

48640

48660

48680

48700

48720

48740

48760

48780

48800

48820

48840

48860

48880

48900

48920

48940

48960

48980

49000

49020

49040

49060

49080

49100

49120

49140

49160

49180

49200

49220

49240

49260

49280

49300

49320

49340

49360

49380

49400

49420

49440

49460

49480

49500

49520

49540

49560

49580

49600

49620

49640

49660

49680

49700

49720

49740

49760

49780

49800

49820

49840

49860

49880

49900

49920

49940

49960

49980

50000

50020

50040

50060

50080

50100

50120

50140

50160

50180

50200

50220

50240

50260

50280

50300

50320

50340

50360

50380

50400

50420

50440

50460

50480

50500

50520

50540

50560

50580

50600

50620

50640

50660

50680

50700

50720

50740

50760

50780

50800

50820

50840

50860

50880

50900

50920

50940

50960

50980

51000

51020

51040

51060

51080

51100

51120

51140

51160

51180

51200

51220

51240

51260

51280

51300

51320

51340

51360

51380

51400

51420

51440

51460

51480

51500

51520

51540

51560

51580

51600

51620

51640

51660

51680

51700

51720

51740

51760

51780

51800

51820

51840

51860

51880

51900

51920

51940

51960

51980

52000

52020

52040

52060

52080

52100

52120

52140

52160

52180

52200

52220

52240

52260

52280

52300

52320

52340

52360

52380

52400

52420

52440

52460

52480

52500

52520

52540

52560

52580

52600

52620

52640

52660

52680

52700

52720

52740

52760

52780

52800

52820

52840

52860

52880

52900

52920

52940

52960

52980

53000

53020

53040

53060

53080

53100

53120

53140

53160

53180

53200

53220

53240

53260

53280

53300

53320

53340

53360

53380

53400

53420

53440

53460

53480

53500

53520

53540

53560

53580

53600

53620

53640

53660

53680

53700

53720

53740

53760

53780

53800

53820

53840

53860

53880

53900

53920

53940

53960

53980

54000

54020

54040

54060

54080

54100

54120

54140

54160

54180

54200

54220

54240

54260

54280

54300

54320

54340

54360

54380

54400

54420

54440

54460

54480

54500

54520

54540

54560

54580

54600

54620

54640

54660

54680

54700

54720

54740

54760

54780

54800

54820

54840

54860

54880

54900

54920

54940

54960

54980

55000

55020

55040

55060

55080

55100

55120

55140

55160

55180

55200

55220

55240

55260

55280

55300

55320

55340

55360

55380

55400

55420

55440

55460

55480

55500

55520

55540

55560

55580

55600

55620

55640

55660

55680

55700

55720

55740

55760

55780

55800

55820

55840

55860

55880

55900

55920

55940

55960

55980

56000

56020

56040

56060

56080

56100

56120

56140

56160

56180

56200

56220

56240

56260

56280

56300

56320

56340

56360

56380

56400

56420

56440

56460

56480

56500

56520

56540

56560

56580

56600

56620

56640

56660

56680

56700

56720

56740

56760

56780

56800

56820

56840

56860

56880

56900

56920

56940

56960

56980

57000

57020

57040

57060

57080

57100

57120

57140

57160

57180

57200

57220

57240

57260

57280

57300

57320

57340

57360

57380

57400

57420

57440

57460

57480

57500

57520

57540

57560

57580

57600

57620

57640

57660

57680

57700

57720

57740

57760

57780

57800

57820

57840

57860

57880

57900

57920

57940

57960

57980

58000

58020

58040

58060

58080

58100

58120

58140

58160

58180

58200

58220

58240

58260

58280

58300

58320

58340

58360

58380

58400

58420

58440

58460

58480

58500

58520

58540

58560

58580

58600

58620

58640

58660

58680

58700

58720

58740

58760

58780

58800

58820

58840

58860

58880

58900

58920

58940

58960

58980

59000

59020

59040

59060

59080

59100

59120

59140

59160

59180

59200

59220

59240

59260

59280

59300

59320

59340

59360

59380

59400

59420

59440

59460

59480

59500

59520

59540

59560

59580

59600

59620

59640

59660

59680

59700

59720

59740

59760

59780

59800

59820

59840

59860

59880

59900

59920

59940

59960

59980

60000

60020

60040

60060

60080

60100

60120

60140

60160

60180

60200

60220

60240

60260

60280

60300

60320

60340

60360

60380

60400

60420

60440

60460

60480

60500

60520

60540

60560

60580

60600

60620

60640

60660

60680

60700

60720

60740

60760

60780

60800

60820

60840

60860

60880

60900

60920

60940

60960

60980

61000

61020

61040

61060

61080

61100

61120

61140

61160

61180

61200

61220

61240

61260

61280

61300

61320

61340

61360

61380

61400

61420

61440

61460

61480

61500

61520

61540

61560

61580

61600

61620

61640

61660

61680

61700

61720

61740

61760

61780

61800

61820

61840

61860

61880

61900

61920

61940

61960

61980

62000

62020

62040

62060

62080

62100

62120

62140

62160

62180

62200

62220

62240

62260

62280

62300

62320

62340

62360

62380

62400

62420

62440

62460

62480

62500

62520

62540

62560

62580

62600

62620

62640

62660

62680

62700

62720

62740

62760

62780

62800

62820

62840

62860

62880

62900

62920

62940

62960

62980

63000

63020

63040

63060

63080

63100

63120

63140

63160

63180

63200

63220

63240

63260

63280

63300

63320

63340

63360

63380

63400

63420

63440

63460

63480

63500

63520

63540

63560

63580

63600

63620

63640

63660

63680

63700

63720

63740

63760

63780

63800

63820

63840

63860

63880

63900

63920

63940

63960

63980

64000

64020

64040

64060

64080

64100

64120

64140

64160

64180

64200

64220

64240

64260

64280

64300

64320

64340

64360

64380

64400

64420

64440

64460

64480

64500

64520

64540

64560

64580

64600

64620

64640

64660

64680

64700

64720

64740

64760

64780

64800

64820

64840

64860

64880

64900

64920

64940

64960

64980

65000

65020

65040

65060

65080

65100

65120

65140

65160

65180

65200

65220

65240

65260

65280

65300

65320

65340

65360

65380

65400

65420

65440

65460

65480

65500

65520

65540

65560

65580

65600

65620

65640

65660

65680

65700

65720

65740

65760

65780

65800

65820

65840

65860

65880

65900

65920

65940

65960

65980

66000

66020

66040

66060

66080

66100

66120

66140

66160

66180

66200

66220

66240

66260

66280

66300

66320

66340

66360

66380

66400

66420

66440

66460

66480

66500

66520

66540

66560

66580

66600

66620

66640

66660

66680

66700

66720

66740

66760

66780

66800

66820

66840

66860

66880

66900

66920

66940

66960

66980

67000

67020

67040

67060

67080

67100

67120

67140

67160

67180

67200

67220

67240

67260

67280

67300

67320

67340

67360

67380

67400

67420

67440

67460

67480

67500

67520

67540

67560

67580

67600

67620

67640

67660

67680

67700

67720

67740

67760

67780

67800

67820

67840

67860

67880

67900

67920

67940

67960

67980

68000

68020

68040

68060

68080

68100

68120

68140

68160

68180

68200

68220

68240

68260

68280

68300

68320

68340

68360

68380

68400

68420

68440

68460

68480

68500

68520

68540

68560

68580

68600

68620

68640

68660

68680

68700

68720

68740

68760

68780

68800

68820

68840

68860

68880

68900

68920

68940

68960

68980

69000

69020

69040

69060

69080

69100

69120

69140

69160

69180

69200

69220

69240

69260

69280

69300

69320

69340

69360

69380

69400

69420

69440

69460

69480

69500

69520

69540

69560

69580

69600

69620

69640

69660

69680

69700

69720

69740

69760

69780

69800

69820

69840

69860

69880

69900

69920

69940

69960

69980

70000

70020

70040

70060

70080

70100

70120

70140

70160

70180

70200

70220

70240

70260

70280

70300

70320

70340

70360

70380

70400

70420

70440

70460

70480

70500

70520

70540

70560

70580

70600

70620

70640

70660

70680

70700

70720

70740

70760

70780

70800

70820

70840

70860

70880

70900

70920

70940

70960

70980

71000

71020

71040

71060

71080

71100

71120

71140

71160

71180

71200

71220

71240

71260

71280

71300

71320

71340

71360

71380

71400

71420

71440

71460

71480

71500

71520

71540

71560

71580

71600

71620

71640

71660

71680

71700

71720

71740

71760

71780

71800

71820

71840

71860

71880

71900

71920

71940

71960

71980

72000

72020

72040

72060

72080

72100

72120

72140

72160

72180

72200

72220

72240

72260

72280

72300

72320

72340

72360

72380

72400

72420

72440

72460

72480

72500

72520

72540

72560

72580

72600

72620

72640

72660

72680

72700

72720

72740

72760

72780

72800

72820

72840

72860

72880

72900

72920

72940

72960

72980

73000

73020

73040

73060

73080

73100

73120

73140

73160

73180

73200

73220

73240

73260

73280

73300

73320

73340

73360

73380

73400

73420

73440

73460

73480

73500

73520

73540

73560

73580

73600

73620

73640

73660

73680

73700

73720

73740

73760

73780

73800

73820

73840

73860

73880

73900

73920

73940

73960

73980

74000

74020

74040

74060

74080

74100

74120

74140

74160

74180

74200

74220

74240

74260

74280

74300

74320

74340

74360

74380

74400

74420

74440

74460

74480

74500

74520

74540

74560

74580

74600

74620

74640

74660

74680

74700

74720

74740

74760

74780

74800

74820

74840

74860

74880

74900

74920

74940

74960

74980

75000

75020

75040

75060

75080

75100

75120

75140

75160

75180

75200

75220

75240

75260

75280

75300

75320

75340

75360

75380

75400

75420

75440

75460

75480

75500

75520

75540

75560

75580

75600

75620

75640

75660

75680

75700

75720

75740

75760

75780

75800

75820

75840

75860

75880

75900

75920

75940

75960

75980

76000

76020

76040

76060

76080

76100

76120

76140

76160

76180

76200

76220

76240

76260

76280

76300

76320

76340

76360

76380

76400

76420

76440

76460

76480

76500

76520

76540

76560

76580

76600

76620

76640

76660

76680

76700

76720

76740

76760

76780

76800

76820

76840

76860

76880

76900

76920

76940

76960

76980

77000

77020

77040

77060

77080

77100

77120

77140

77160

77180

77200

77220

77240

77260

77280

77300

77320

77340

77360

77380

77400

77420

77440

77460

77480

77500

77520

77540

77560

77580

77600

77620

77640

77660

77680

77700

77720

77740

77760

77780

77800

77820

77840

77860

77880

77900

77920

77940

77960

77980

78000

78020

78040

78060

78080

78100

78120

78140

78160

78180

78200

78220

78240

78260

78280

78300

78320

78340

78360

78380

78400

78420

78440

78460

78480

78500

78520

78540

78560

78580

78600

78620

78640

78660

78680

78700

78720

78740

78760

78780

78800

78820

78840

78860

78880

78900

78920

78940

78960

78980

79000

79020

79040

79060

79080

79100

79120

79140

79160

79180

79200

79220

79240

79260

79280

79300

79320

79340

79360

79380

79400

79420

79440

79460

79480

79500

79520

79540

79560

79580

79600

79620

79640

79660

79680

79700

79720

79740

79760

79780

79800

79820

79840

79860

79880

79900

79920

79940

79960

79980

80000

80020

80040

80060

80080

80100

80120

80140

80160

80180

80200

80220

80240

80260

80280

80300

80320

80340

80360

80380

80400

80420

80440

80460

80480

80500

80520

80540

80560

80580

80600

80620

80640

80660

80680

80700

80720

80740

80760

80780

80800

80820

80840

80860

80880

80900

80920

80940

80960

80980

81000

81020

81040

81060

81080

81100

81120

81140

81160

81180

81200

81220

81240

81260

81280

81300

81320

81340

81360

81380

81400

81420

81440

81460

81480

81500

81520

81540

81560

81580

81600

81620

81640

81660

81680

81700

81720

81740

81760

81780

81800

81820

81840

81860

81880

81900

81920

81940

81960

81980

82000

82020

82040

82060

82080

82100

82120

82140

82160

82180

82200

82220

82240

82260

82280

82300

82320

82340

82360

82380

82400

82420

82440

82460

82480

82500

82520

82540

82560

82580

82600

82620

82640

82660

82680

82700

82720

82740

82760

82780

82800

82820

82840

82860

82880

82900

82920

82940

82960

82980

83000

83020

83040

83060

83080

83100

83120

83140

83160

83180

83200

83220

83240

83260

83280

83300

83320

83340

83360

83380

83400

83420

83440

83460

83480

83500

83520

83540

83560

83580

83600

83620

83640

83660

83680

83700

83720

83740

83760

83780

83800

83820

83840

83860

83880

83900

83920

83940

83960

83980

84000

84020

84040

84060

84080

84100

84120

84140

84160

84180

84200

84220

84240

84260

84280

84300

84320

84340

84360

84380

84400

84420

84440

84460

84480

84500

84520

84540

84560

84580

84600

84620

84640

84660

84680

84700

84720

84740

84760

84780

84800

84820

84840

84860

84880

84900

84920

84940

84960

84980

85000

85020

85040

85060

85080

85100

85120

85140

85160

85180

85200

85220

85240

85260

85280

85300

85320

85340

85360

85380

85400

85420

85440

85460

85480

85500

85520

85540

85560

85580

85600

85620

85640

85660

85680

85700

85720

85740

85760

85780

85800

85820

85840

85860

85880

85900

85920

85940

85960

85980

86000

86020

86040

86060

86080

86100

86120

86140

86160

86180

86200

86220

86240

86260

86280

86300

86320

86340

86360

86380

86400

86420

86440

86460

86480

86500

86520

86540

86560

86580

86600

86620

86640

86660

86680

86700

86720

86740

86760

86780

86800

86820

86840

86860

86880

86900

86920

86940

86960

86980

87000

87020

87040

87060

87080

87100

87120

87140

87160

87180

87200

87220

87240

87260

87280

87300

87320

87340

87360

87380

87400

87420

87440

87460

87480

87500

87520

87540

87560

87580

87600

87620

87640

87660

87680

87700

87720

87740

87760

87780

87800

87820

87840

87860

87880

87900

87920

87940

87960

87980

88000

88020

88040

88060

88080

88100

88120

88140

88160

88180

88200

88220

88240

88260

88280

88300

88320

88340

88360

88380

88400

88420

88440

88460

88480

88500

88520

88540

88560

88580

88600

88620

88640

88660

88680

88700

88720

88740

88760

88780

88800

88820

88840

88860

88880

88900

88920

88940

88960

88980

89000

89020

89040

89060

89080

89100

89120

89140

89160

89180

89200

89220

89240

89260

89280

89300

89320

89340

89360

89380

89400

89420

89440

89460

89480

89500

89520

89540

89560

89580

89600

89620

89640

89660

89680

89700

89720

89740

89760

89780

89800

89820

89840

89860

89880

89900

89920

89940

89960

89980

90000

90020

90040

90060

90080

90100

90120

90140

90160

90180

90200

90220

90240

90260

90280

90300

90320

90340

90360

90380

90400

90420

90440

90460

90480

90500

90520

90540

90560

90580

90600

90620

90640

90660

90680

90700

90720

90740

90760

90780

90800

90820

90840

90860

90880

90900

90920

90940

90960

90980

91000

91020

91040

91060

91080

91100

91120

91140

91160

91180

91200

91220

91240

91260

91280

91300

91320

91340

91360

91380

91400

91420

91440

91460

91480

91500

91520

91540

91560

91580

91600

91620

91640

91660

91680

91700

91720

91740

91760

91780

91800

91820

91840

91860

91880

91900

91920

91940

91960

91980

92000

92020

92040

92060

92080

92100

92120

92140

92160

92180

92200

92220

92240

92260

92280

92300

92320

92340

92360

92380

92400

92420

92440

92460

92480

92500

92520

92540

92560

92580

92600

92620

92640

92660

92680

92700

92720

92740

92760

92780

92800

92820

92840

92860

92880

92900

92920

92940

92960

92980

93000

93020

93040

93060

93080

93100

93120

93140

93160

93180

93200

93220

93240

93260

93280

93300

93320

93340

93360

93380

93400

93420

93440

93460

93480

93500

93520

93540

93560

93580

93600

93620

93640

93660

93680

93700

93720

93740

93760

93780

93800

93820

93840

93860

93880

93900

93920

93940

93960

93980

94000

94020

94040

94060

94080

94100

94120

94140

94160

94180

94200

94220

94240

94260

94280

94300

94320

94340

94360

94380

94400

94420

94440

94460

94480

94500

94520

94540

94560

94580

94600

94620

94640

94660

94680

94700

94720

94740

94760

94780

94800

94820

94840

94860

94880

94900

94920

94940

94960

94980

95000

95020

95040

95060

95080

95100

95120

95140

95160

95180

95200

95220

95240

95260

95280

95300

95320

95340

95360

95380

95400

95420

95440

95460

95480

95500

95520

95540

95560

95580

95600

95620

95640

95660

95680

95700

95720

95740

95760

95780

95800

95820

95840

95860

95880

95900

95920

95940

95960

95980

96000

96020

96040

96060

96080

96100

96120

96140

96160

96180

96200

96220

96240

96260

96280

96300

96320

96340

96360

96380

96400

96420

96440

96460

96480

96500

96520

96540

96560

96580

96600

96620

96640

96660

96680

96700

96720

96740

96760

96780

96800

96820

96840

96860

96880

96900

96920

96940

96960

96980

97000

97020

97040

97060

97080

97100

97120

97140

97160

97180

97200

97220

97240

97260

97280

97300

97320

97340

97360

97380

97400

97420

97440

97460

97480

97500

97520

97540

97560

97580

97600

97620

97640

97660

97680

97700

97720

97740

97760

97780

97800

97820

97840

97860

97880

97900

97920

97940

97960

97980

98000

98020

98040

98060

98080

98100

98120

98140

98160

98180

98200

98220

98240

98260

98280

98300

98320

98340

98360

98380

98400

98420

98440

98460

98480

98500

98520

98540

98560

98580

98600

98620

98640

98660

98680

98700

98720

98740

98760

98780

98800

98820

98840

98860

98880

98900

98920

98940

98960

98980

99000

99020

99040

99060

99080

99100

99120

99140

99160

99180

99200

99220

99240

99260

99280

99300

99320

99340

99360

99380

99400

99420

99440

99460

99480

99500

99520

99540

99560

99580

99600

99620

99640

99660

99680

99700

99720

99740

99760

99780

99800

99820

99840

99860

99880

99900

99920

99940

99960

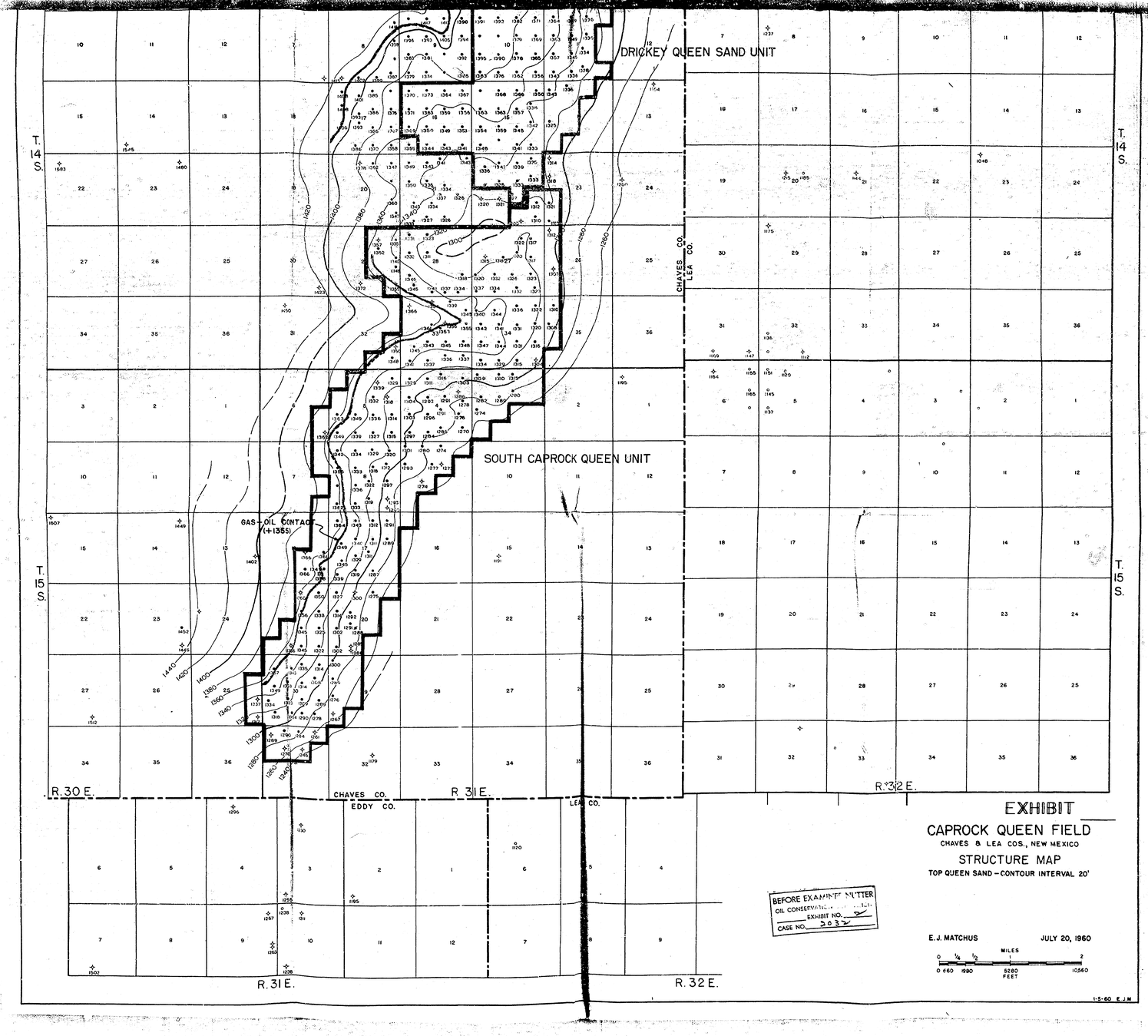
99980

100000

28
GAS-OIL CONTACT
(+1405)

U.N.M.C.F. MICROGRAPHICS

BEST AVAILABLE COPY



EXHIBIT

CAPROCK QUEEN FIELD

CHAVES & LEA COS., NEW MEXICO

STRUCTURE MAP

TOP QUEEN SAND – CONTOUR INTERVAL 20'

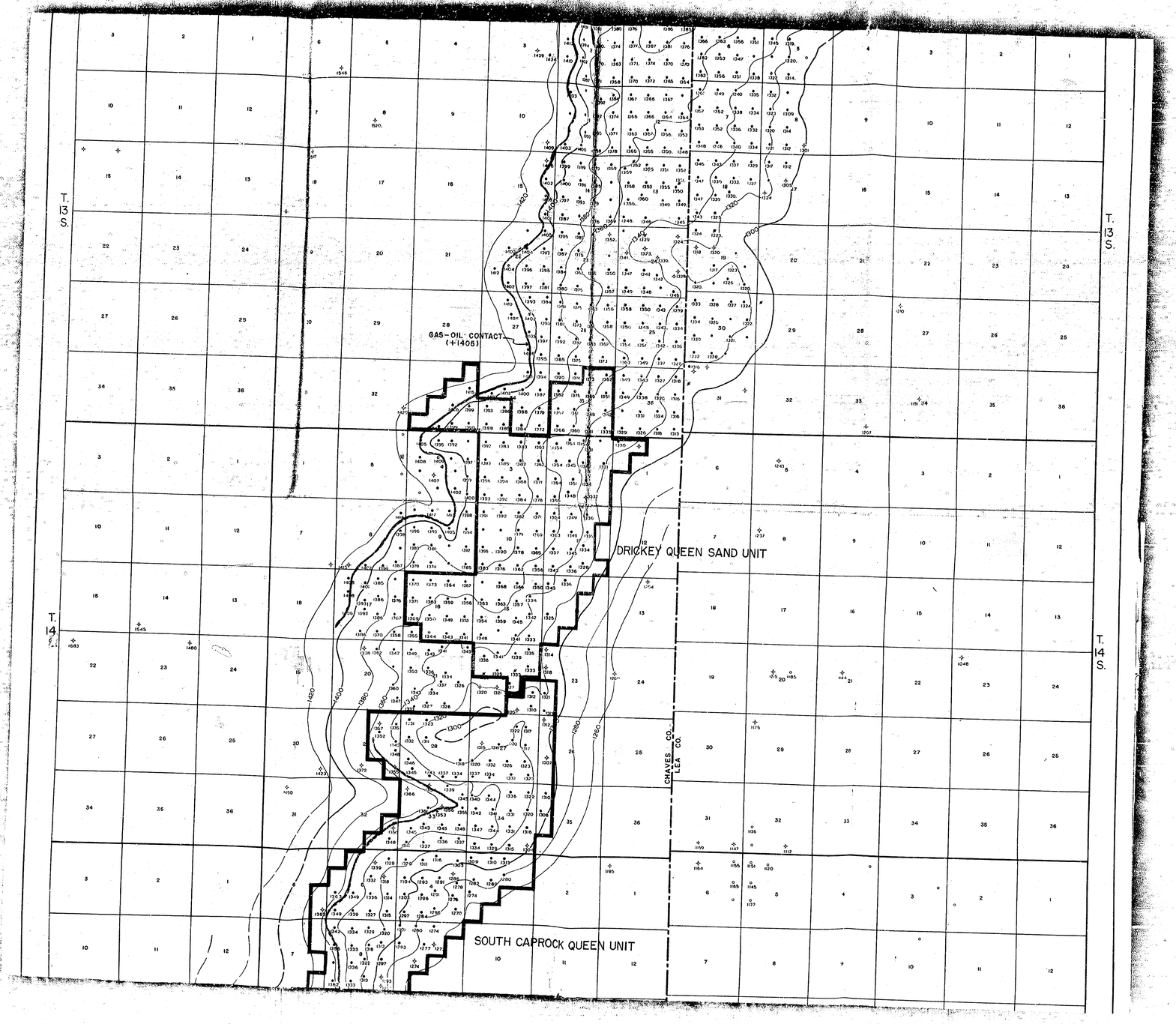
BEFORE EXAMINER NUTTER
OIL CONSERVATION COMM.
EXHIBIT NO. 2
CASE NO. 2032

E.J. MATCHUS — JULY 20, 1960

MILES
0 1/4 1/2 1 2
0 660 1980 5280 10560
FEET

1-5-60 E.J.M

U.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY



W.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

R.30E. R.31E. R.32E.

T. 12 S.

T. 13 S.

CHAVES CO.
LEA CO.

(Proposed)
NORTHEAST CAPROCK QUEEN UNIT
Texaco Inc. (Operator)

NORTH CAPROCK QUEEN UNIT NO. 1
Graridge Corp. (Operator)

PEBBLE QUEEN UNIT
Great Western Drlg. Co. (Operator)

NORTH CAPROCK QUEEN UNIT NO. 2
Ambassador Oil Corp. (Operator)

NORTH CENTRAL CAPROCK QUEEN UNIT
Great Western Drlg. Co. (Operator)

ROCK QUEEN UNIT
Great Western Drlg. Co. (Operator)

TRIGG CAPROCK QUEEN UNIT
John H. Trigg (Operator)

DRICKEY QUEEN SAND UNIT

U.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

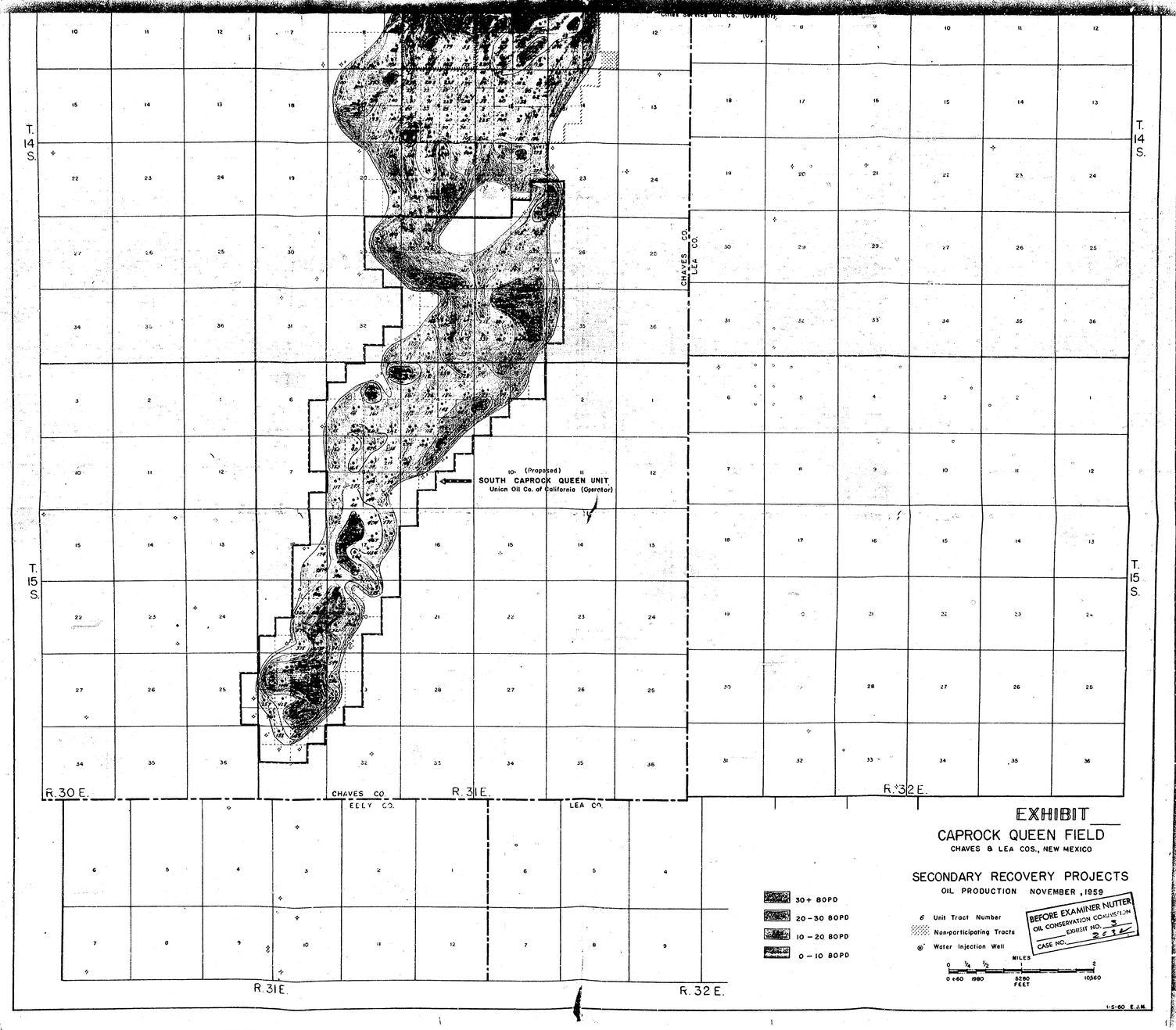


EXHIBIT ___

CAPROCK QUEEN FIELD

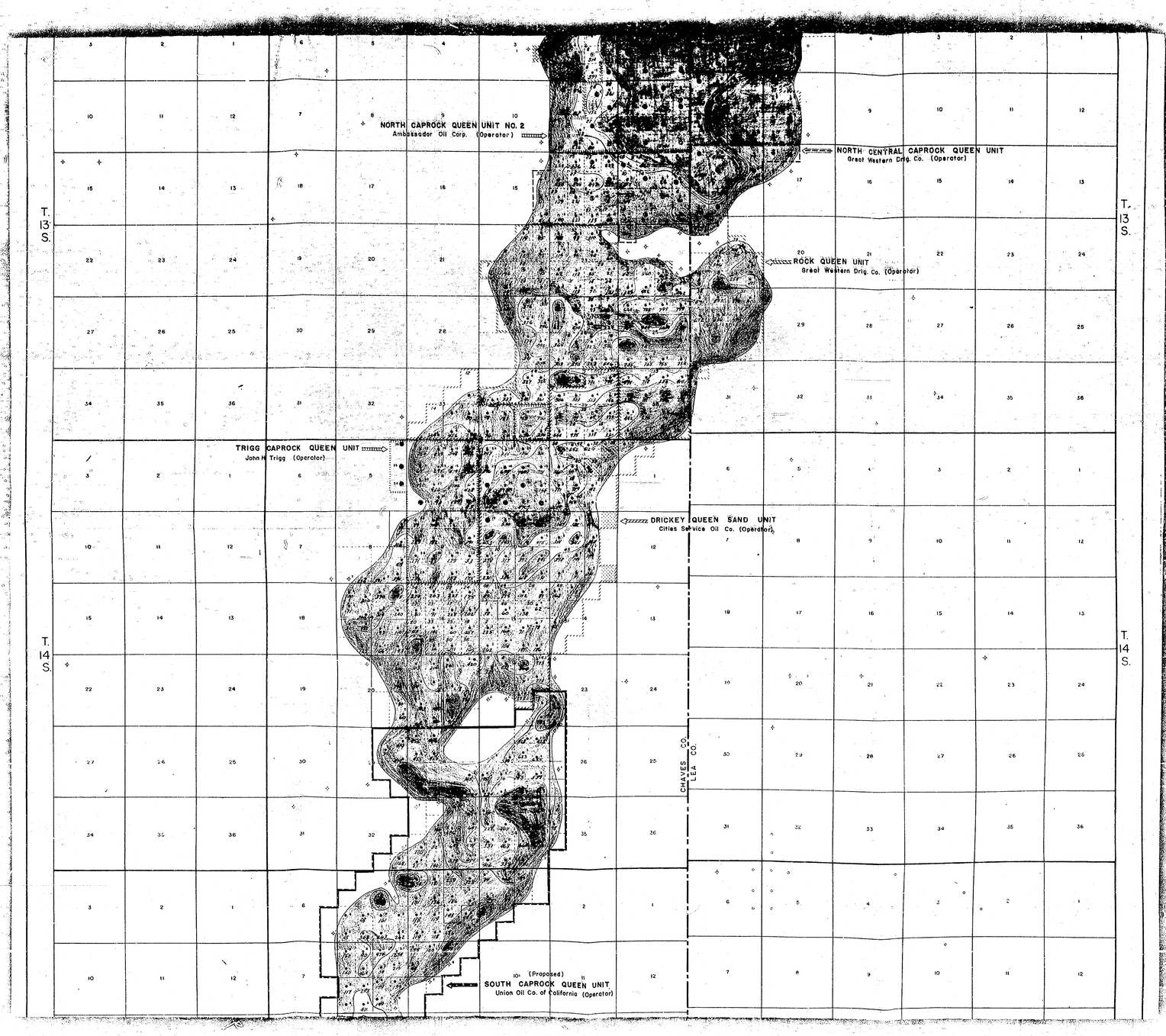
CHAVES & LEA COS., NEW MEXICO

SECONDARY RECOVERY PROJECTS

OIL PRODUCTION NOVEMBER, 1959

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 3
CASE NO. 2224

U.N.M.C.P. MICROGRAPHICS
BEST AVAILABLE COPY



N.M.M.C.P. MICROGRAPHICS
BEST AVAILABLE COPY

R.30E. R.31E. R.32 E.

T. 12 S.

T. 13 S.

CHAVES CO. LEA CO.

NORTHEAST CAPROCK QUEEN UNIT (Proposed)
Texaco Inc. (Operator)

PEBBLE QUEEN UNIT
Great Western Drlg. Co. (Operator)

NORTH CAPROCK QUEEN UNIT NO. 1
Graridge Corp. (Operator)

NORTH CAPROCK QUEEN UNIT NO. 2
Ambassador Oil Corp. (Operator)

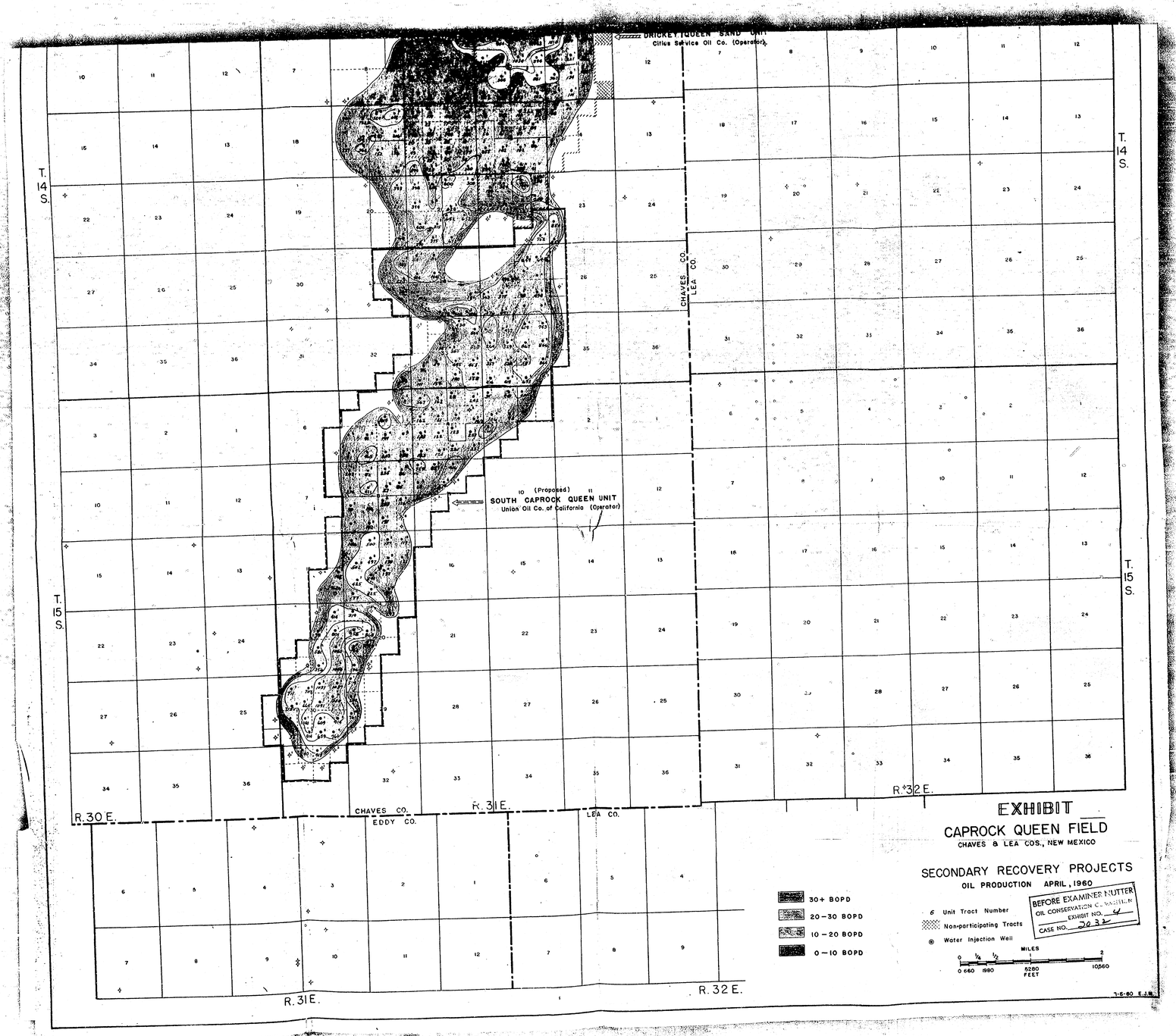
NORTH CENTRAL CAPROCK QUEEN UNIT
Great Western Drlg. Co. (Operator)

ROCK QUEEN UNIT
Great Western Drlg. Co. (Operator)

TRIGG CAPROCK QUEEN UNIT
John M Trigg (Operator)

N.M.M.C.P. MICROGRAPHICS

BEST AVAILABLE COPY



EXHIBIT

CAPROCK QUEEN FIELD

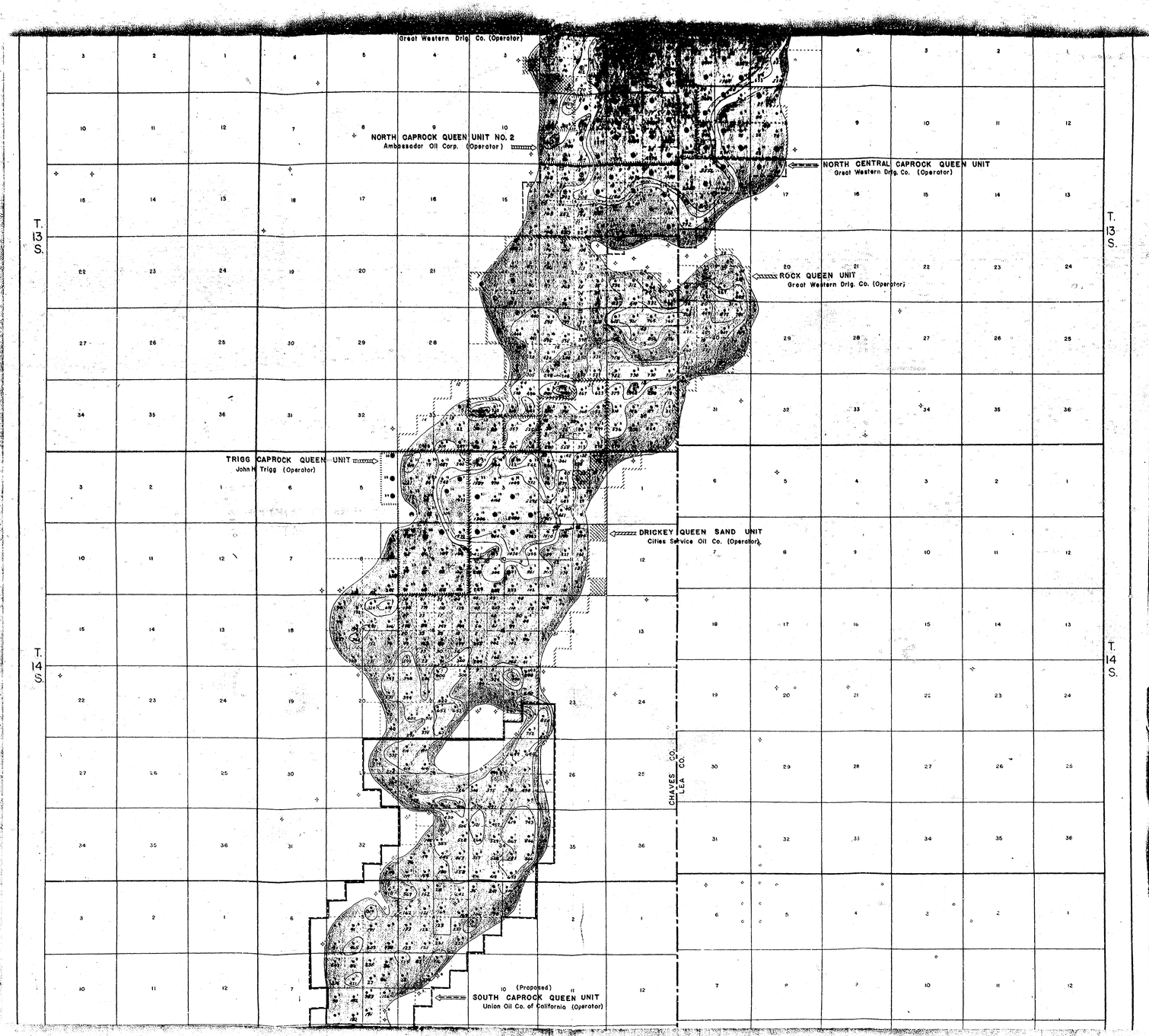
CHAVES & LEA COS., NEW MEXICO

SECONDARY RECOVERY PROJECTS

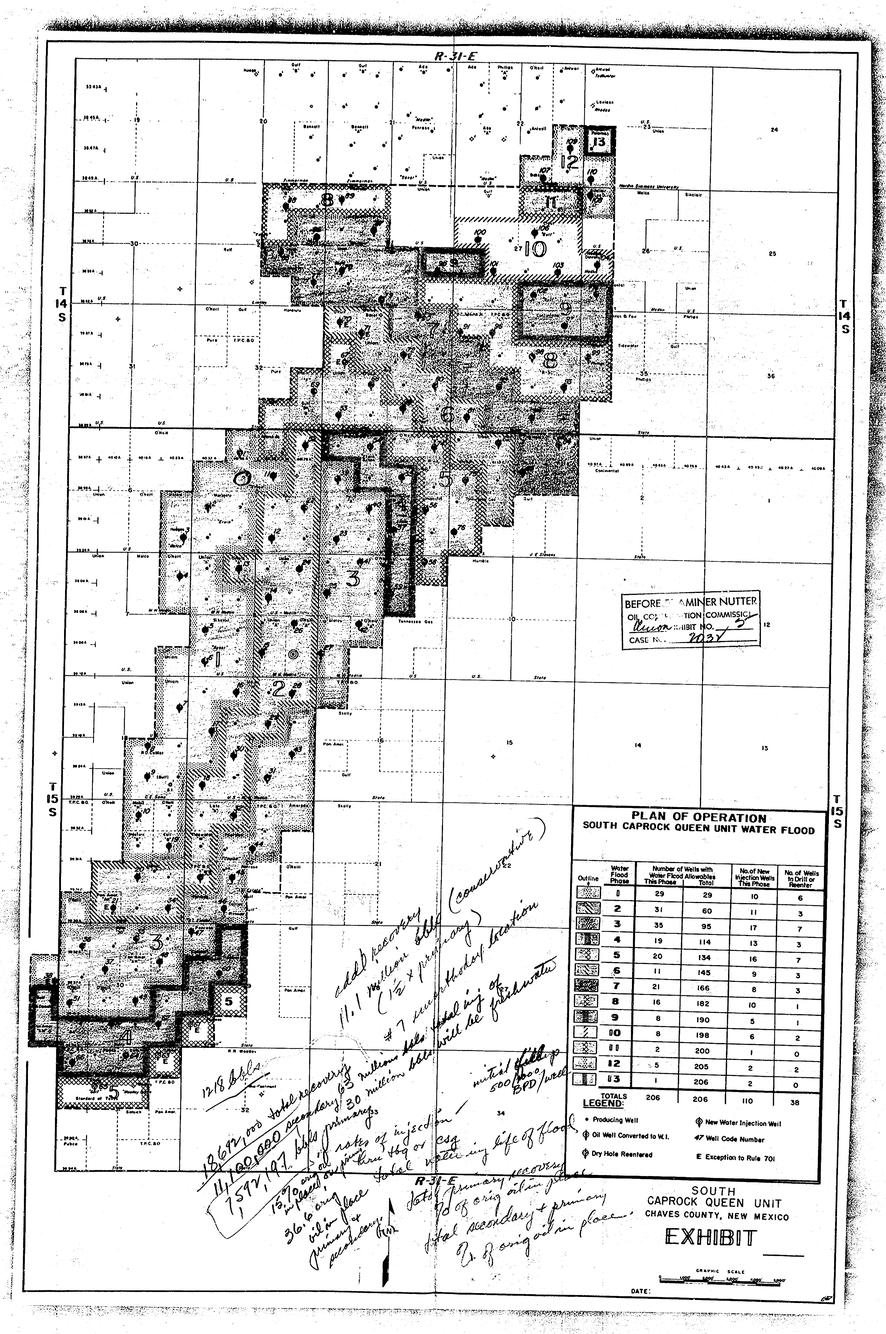
OIL PRODUCTION APRIL, 1960

BEFORE EXAMINER NUTTER
OIL CONSERVATION C. MISSION
EXHIBIT NO. 4
CASE NO. 2032

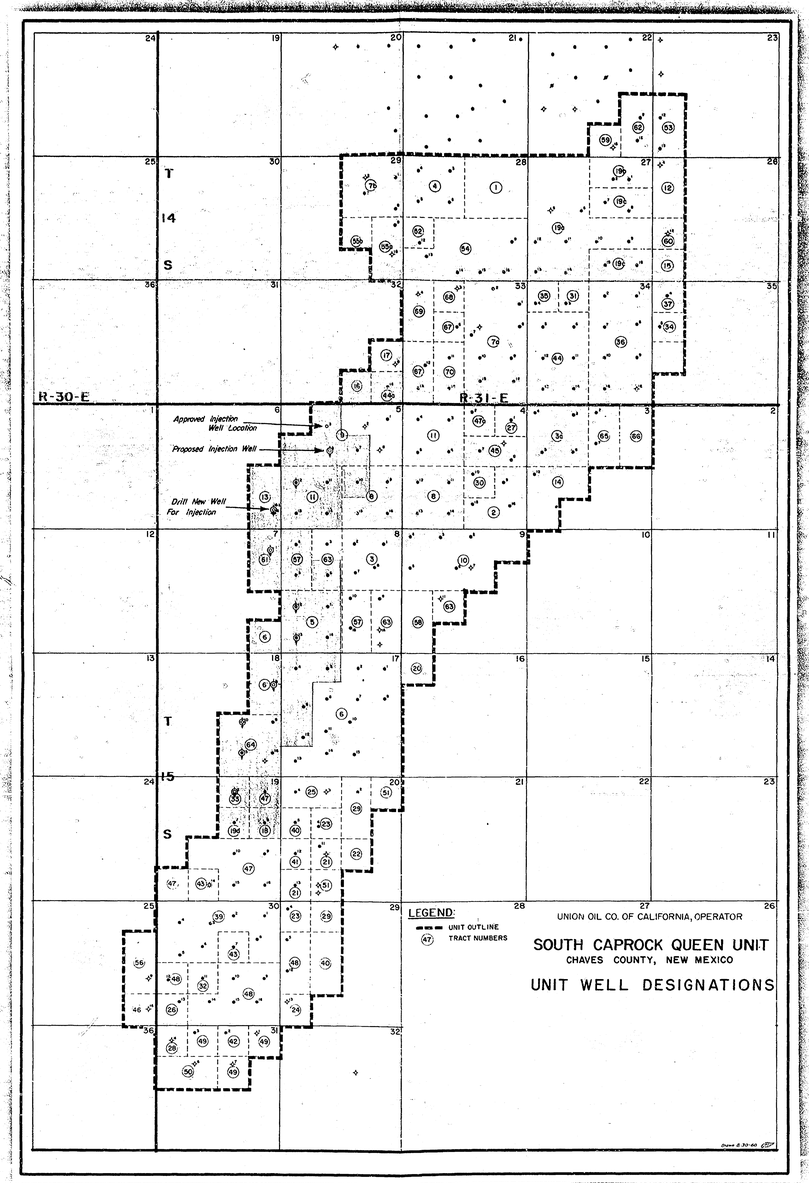
V.N.M.C.P. MICROGRAPHICS
BEST AVAILABLE COPY



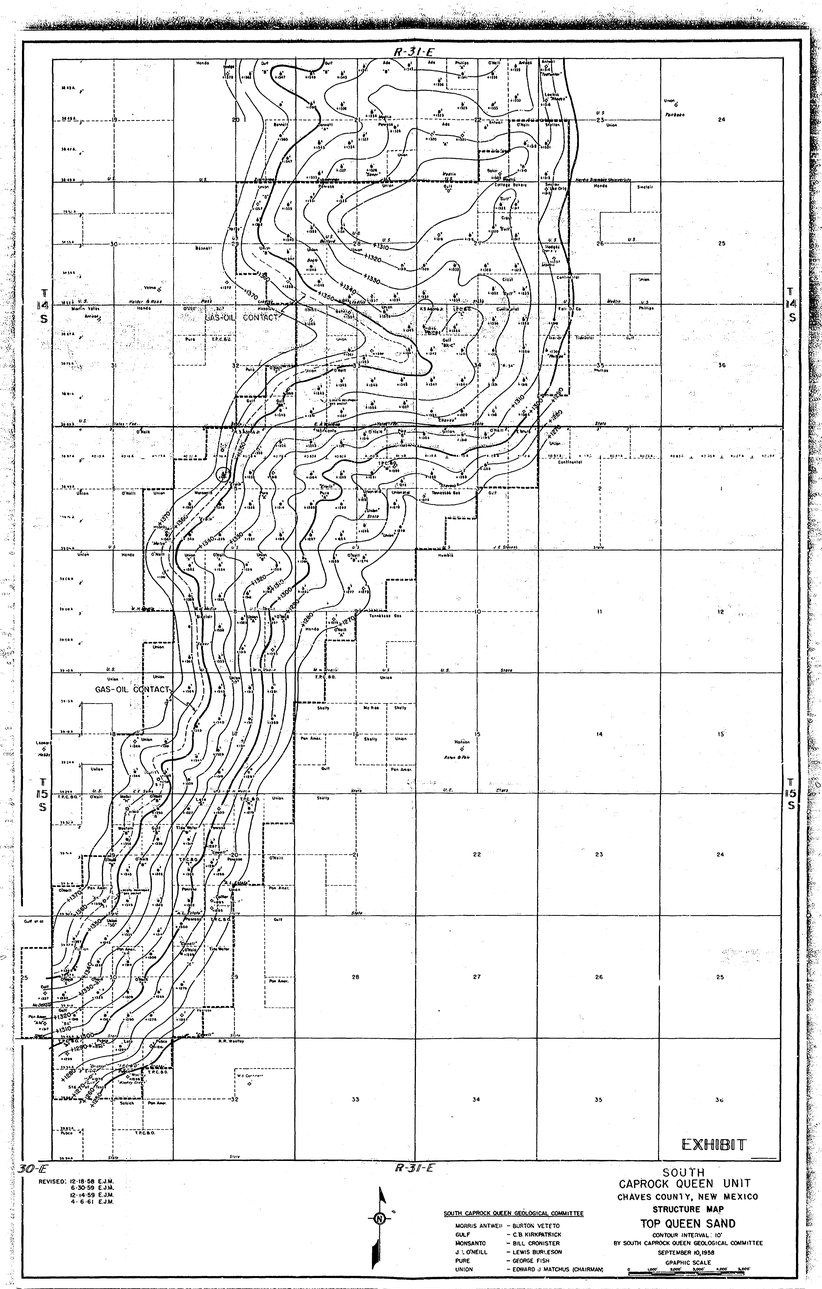
W.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY



V.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY



N.M.G.F. MICROGRAPHICS
BEST AVAILABLE COPY



REVISED: 12-18-58 E.J.M.
6-30-59 E.J.M.
12-14-59 E.J.M.
4-6-61 E.J.M.

SOUTH CAPROCK QUEEN GEOLOGICAL COMMITTEE

MORRIS ANTWEIL	– BURTON VETETO
GULF	– C.B. KIRKPATRICK
MONSANTO	– BILL CRONISTER
J. I. O'NEILL	– LEWIS BURLESON
PURE	– GEORGE FISH
UNION	– EDWARD J. MATCHUS (CHAIRMAN)

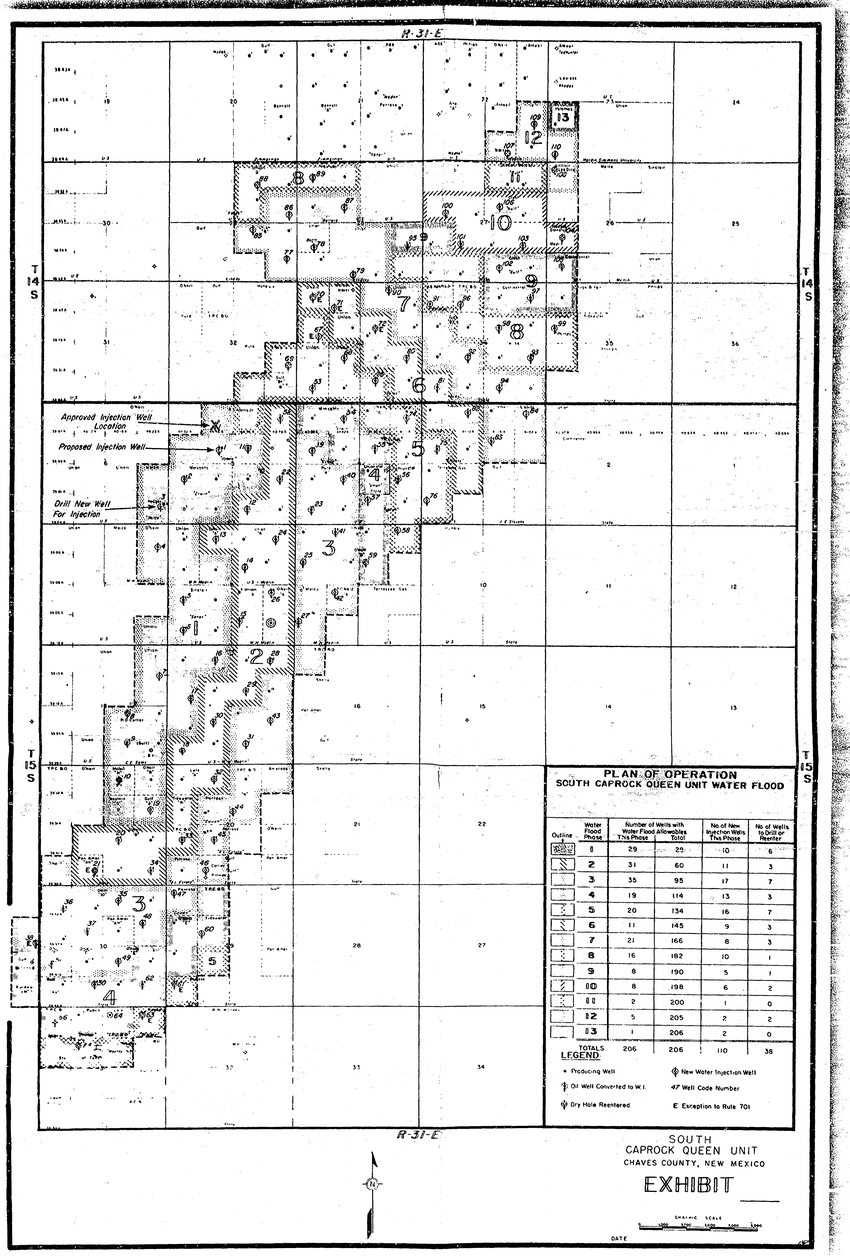
SOUTH CAPROCK QUEEN UNIT
CHAVES COUNTY, NEW MEXICO

STRUCTURE MAP

TOP QUEEN SAND

CONTOUR INTERVAL 10'
BY SOUTH CAPROCK QUEEN GEOLOGICAL COMMITTEE
SEPTEMBER 10, 1958
GRAPHIC SCALE

U.N.M.C.P. MICROGRAPHICS
BEST AVAILABLE COPY



PLAN OF OPERATION
SOUTH CAPROCK QUEEN UNIT WATER FLOOD

Outline	Water Flood Phase	Number of Wells with Water Flood Allowables This Phase	Number of Wells with Water Flood Allowables Total	No. of New Injection Wells This Phase	No. of Wells to Drill or Reenter
	1	29	29	10	6
	2	31	60	11	3
	3	35	95	17	7
	4	19	114	13	3
	5	20	134	16	7
	6	11	145	9	3
	7	21	166	8	3
	8	16	182	10	1
	9	8	190	5	1
	10	8	198	6	2
	11	2	200	1	0
	12	5	205	2	2
	13	1	206	2	0
	TOTALS	206	206	110	38

LEGEND

- Producing Well
- Oil Well Converted to W.I.
- Dry Hole Reentered
- New Water Injection Well
- 47 Well Code Number
- E Exception to Rule 701

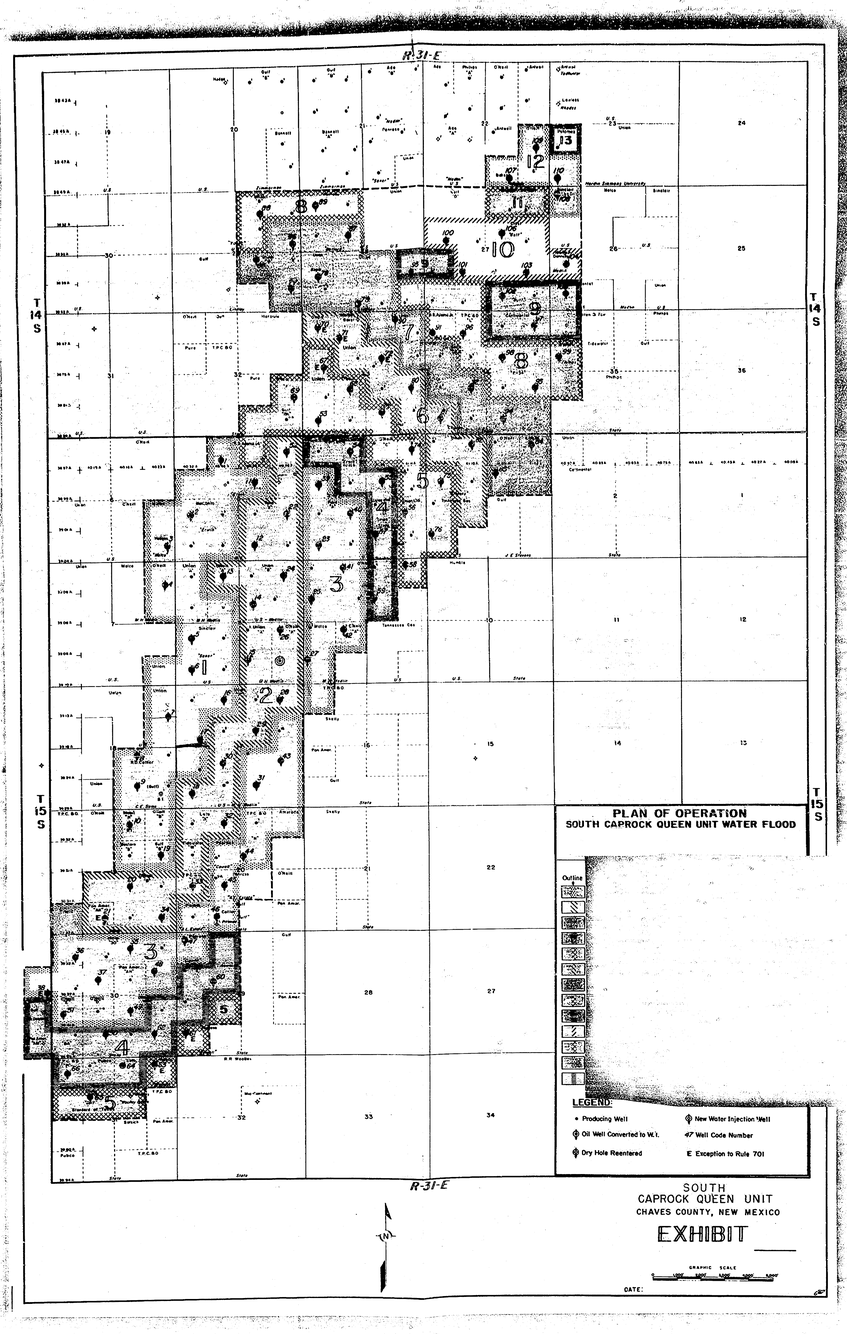
SOUTH
CAPROCK QUEEN UNIT
CHAVES COUNTY, NEW MEXICO

EXHIBIT ____

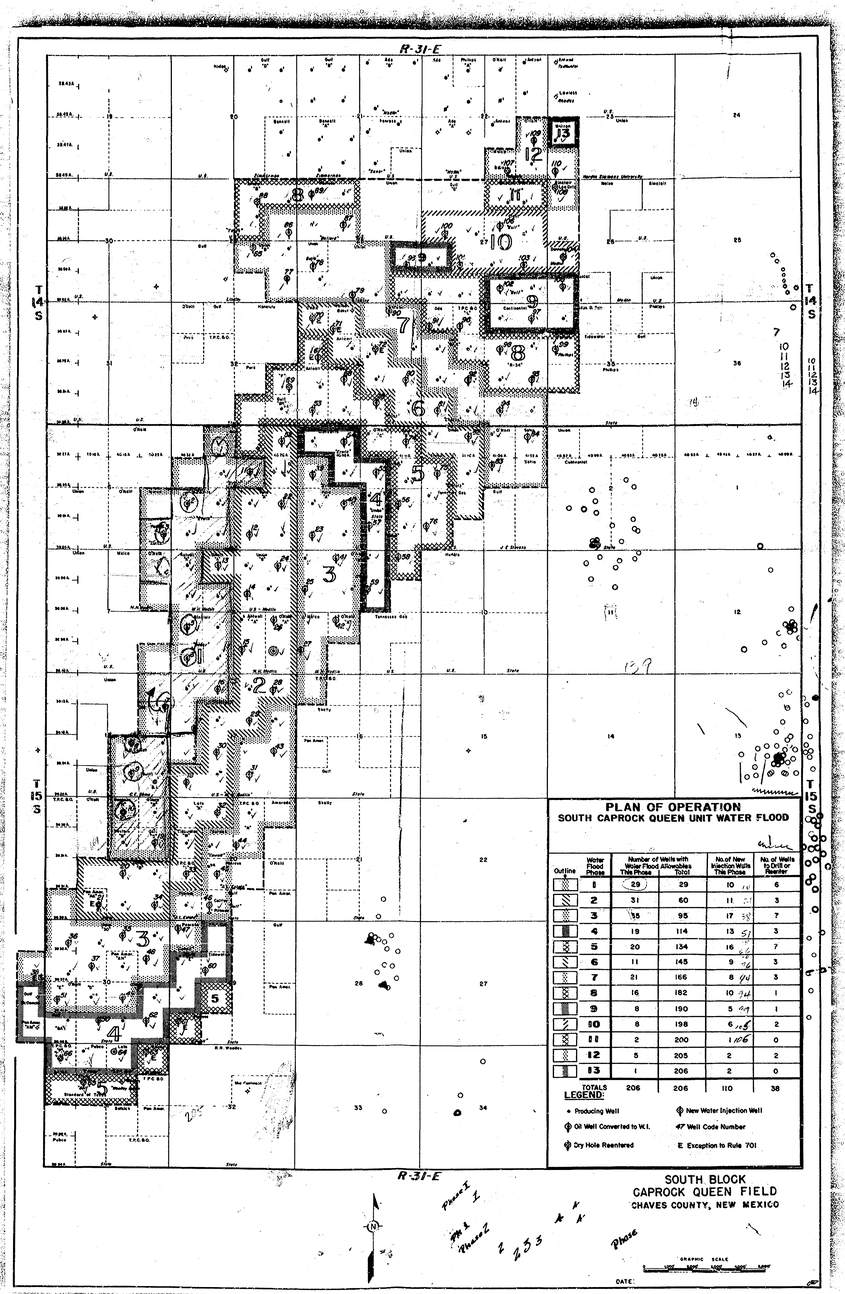
GRAPHIC SCALE
1000 500 1000 2000 3000

DATE

W.N.M.O.C.F. MICROGRAPHICS
BEST AVAILABLE COPY



N.M.O.C.D. MICROGRAPHICS
BEST AVAILABLE COPY



PLAN OF OPERATION
SOUTH CAPROCK QUEEN UNIT WATER FLOOD

Outline	Water Flood Phase	Number of Wells with Water Flood Allowables This Phase	Number of Wells with Water Flood Allowables Total	No. of New Injection Wells This Phase	No. of Wells to Drill or Reenter
	1	29	29	10	6
	2	31	60	11	3
	3	35	95	17	7
	4	19	114	13	3
	5	20	134	16	7
	6	11	145	9	3
	7	21	166	8	3
	8	16	182	10	1
	9	8	190	5	1
	10	8	198	6	2
	11	2	200	1	0
	12	5	205	2	2
	13	1	206	2	0
	TOTALS	206	206	110	38

LEGEND:

- Producing Well
- Oil Well Converted to W.I.
- Dry Hole Reentered
- New Water Injection Well
- 47 Well Code Number
- E Exception to Rule 701

W.N.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY