

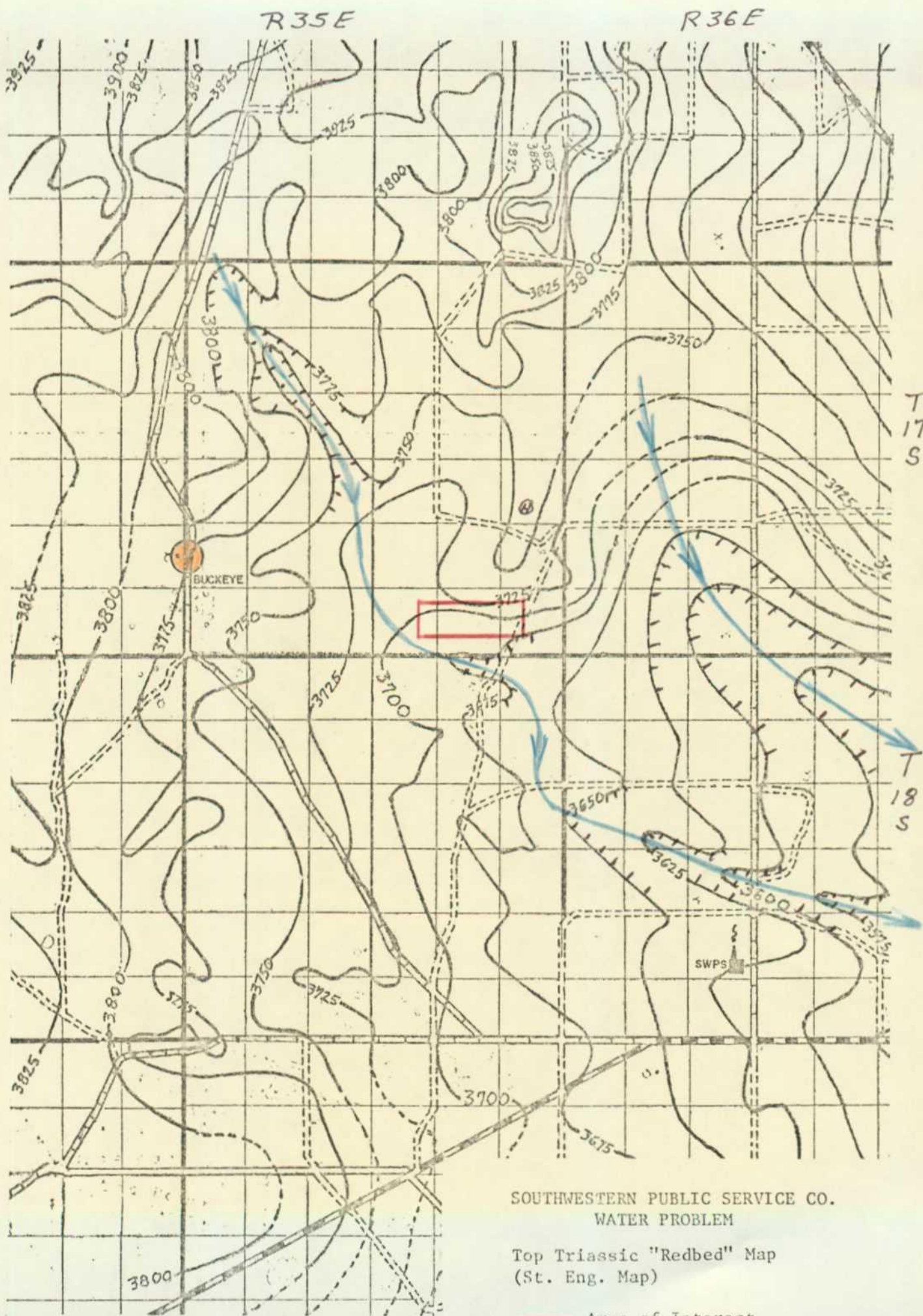
1R -

247

REPORTS

maps

DATE:



✓ T17S R. R35E
✓ Sec 28 - 28 wells
✓ Sec 33 - 45 wells
✓ Sec 34 - 41 wells
✓ Sec 35 - 13 wells
✓ Sec 36 - 1 well
✓ Sec 26 - 33 wells
✓ Sec 27 - 37 wells

✓ Sec 29 - 31 wells
✓ Sec 32 - 39 wells

~~29~~ 14 wells
not included in ave. below

268 Total oil & gas wells

Ave - 30 wells
per section

T18S R35E

✓ Sec 1 - None
✓ Sec 2 - 8 wells
✓ Sec 3 - 5 wells
✓ Sec 4 - 15 wells

28 Total oil & gas wells

Ave - 7 wells
per section

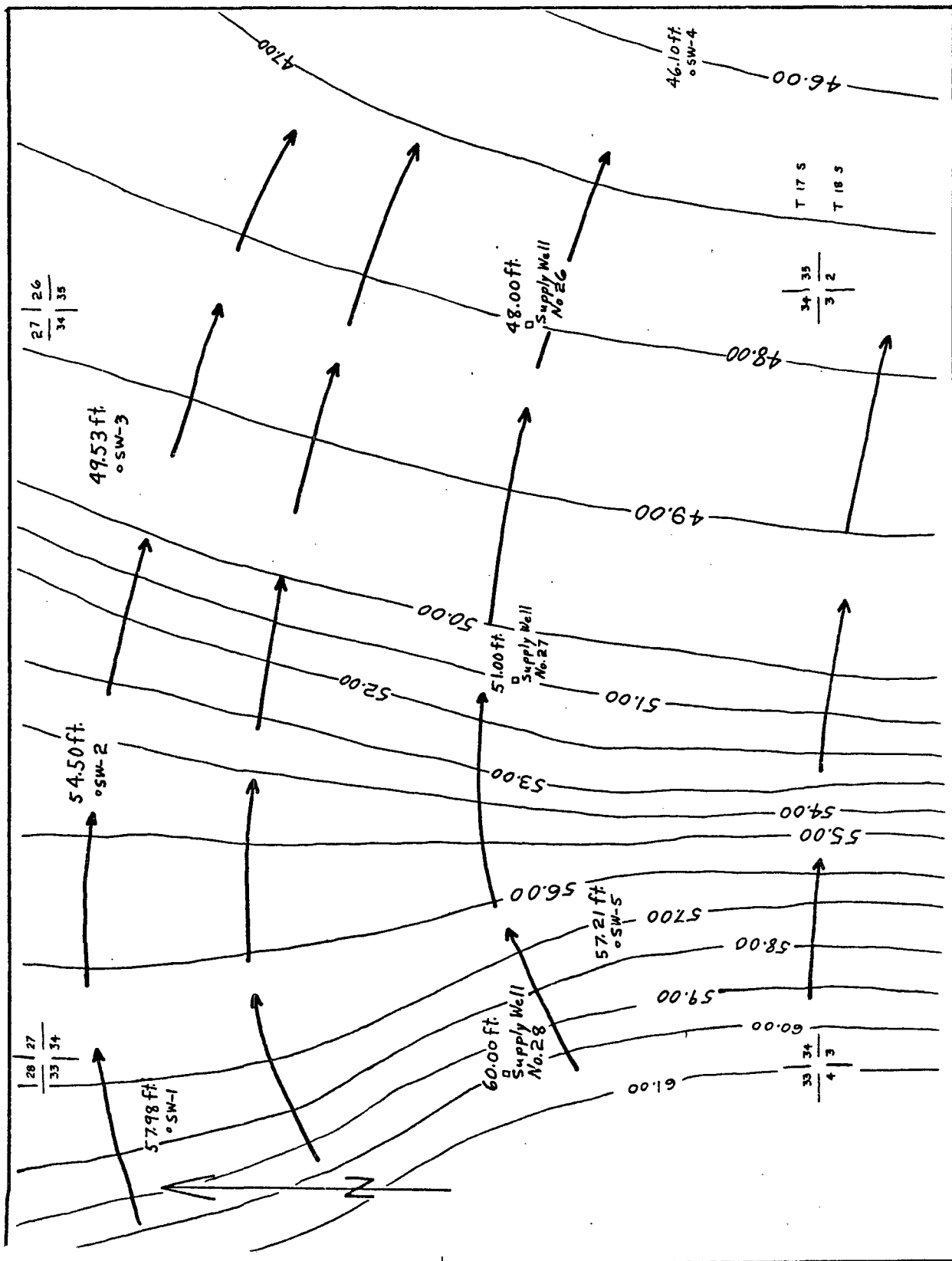
296 Total oil & gas
wells

Average
23 wells per section

List had 297 total wells
on it.

Division

✓ Done by J.
Runyan



MAP 2 SOUTHWESTERN PUBLIC SERVICE CO. WATER PROBLEM AREA
GROUND WATER FLOW MAP
WATER LEVEL MEASUREMENTS IN FEET FROM SEA LEVEL

Water levels

SW-1

59.87 -
1.89 +
57.98 **

SW-2

55.12 -
1.62 +
54.5 **

SW-3

51.03 -
1.55 +
49.55 **

SW-4

47.88 -
1.78 +
46.1 **

SW-5

58.91 -
1.7 +
57.21 **

Don Ables
Jeff Bryant

Topo Map Coverage -

Backeye - 15 min

107

Lovington - 15 min

108

Number of proposed drill holes -
Continuation of water may be T17S R35 Sec. 19

Giles

~~Lee~~ Lee 396-2418

SW. public service

12 sections of water rights

Problem not with Cl. content ~~\$~~ but from fact
that Cl. content fluctuates.

Giles Lee

396-2418

R.D. Lee - landowner

396-3283

O.C.D. Hobbs office phone No. - 393-6161

Southwestern Public

Service Company

Tyler at 6th - P.O. Box 1261

Amarillo, Texas. 79170

806-378-2121

Environmentalist

Kenneth L. Ladd, Jr. - Senior

397-1128

Art Carmichael - home 392-8987

Southwestern Public Service Company

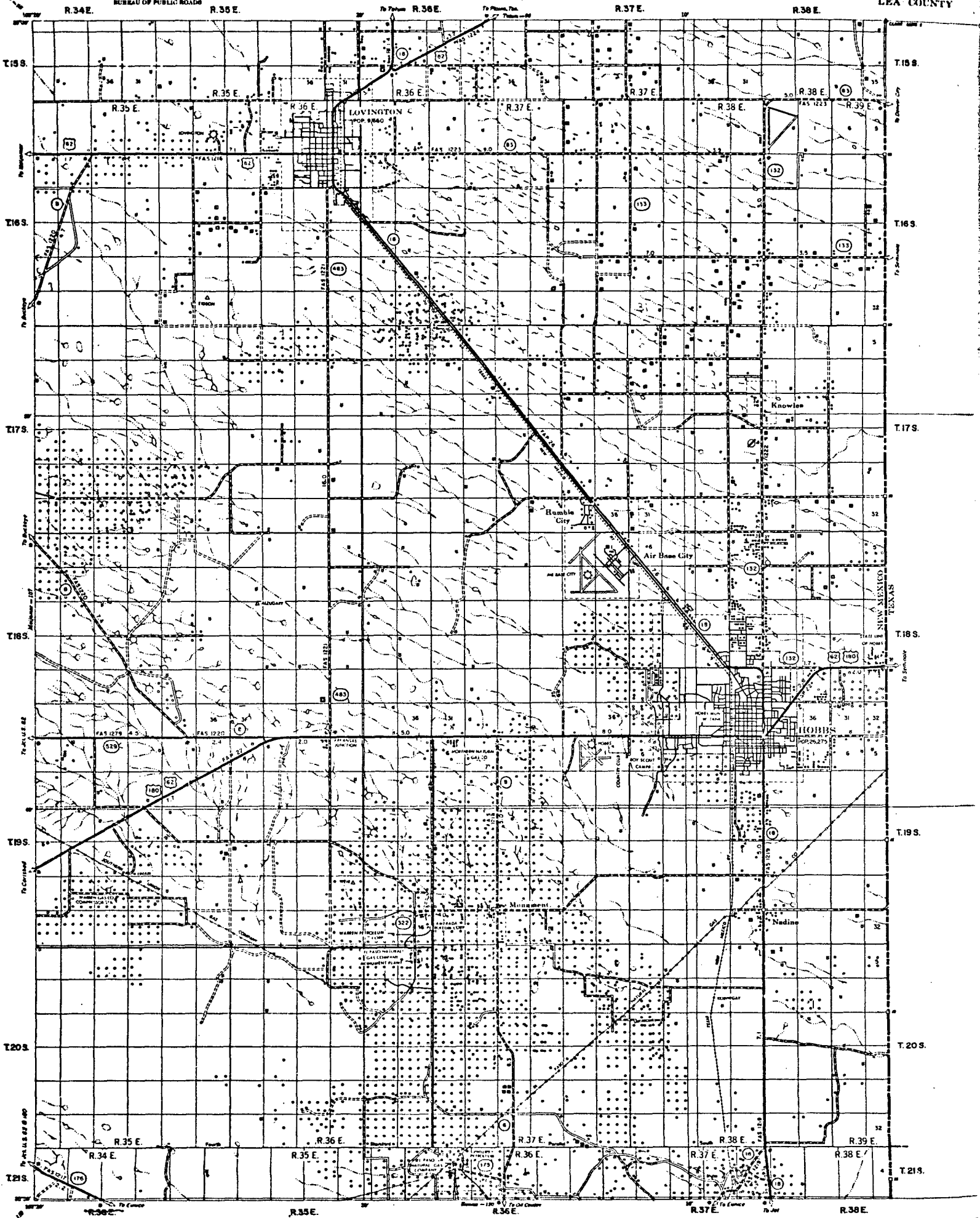
Cunningham Print

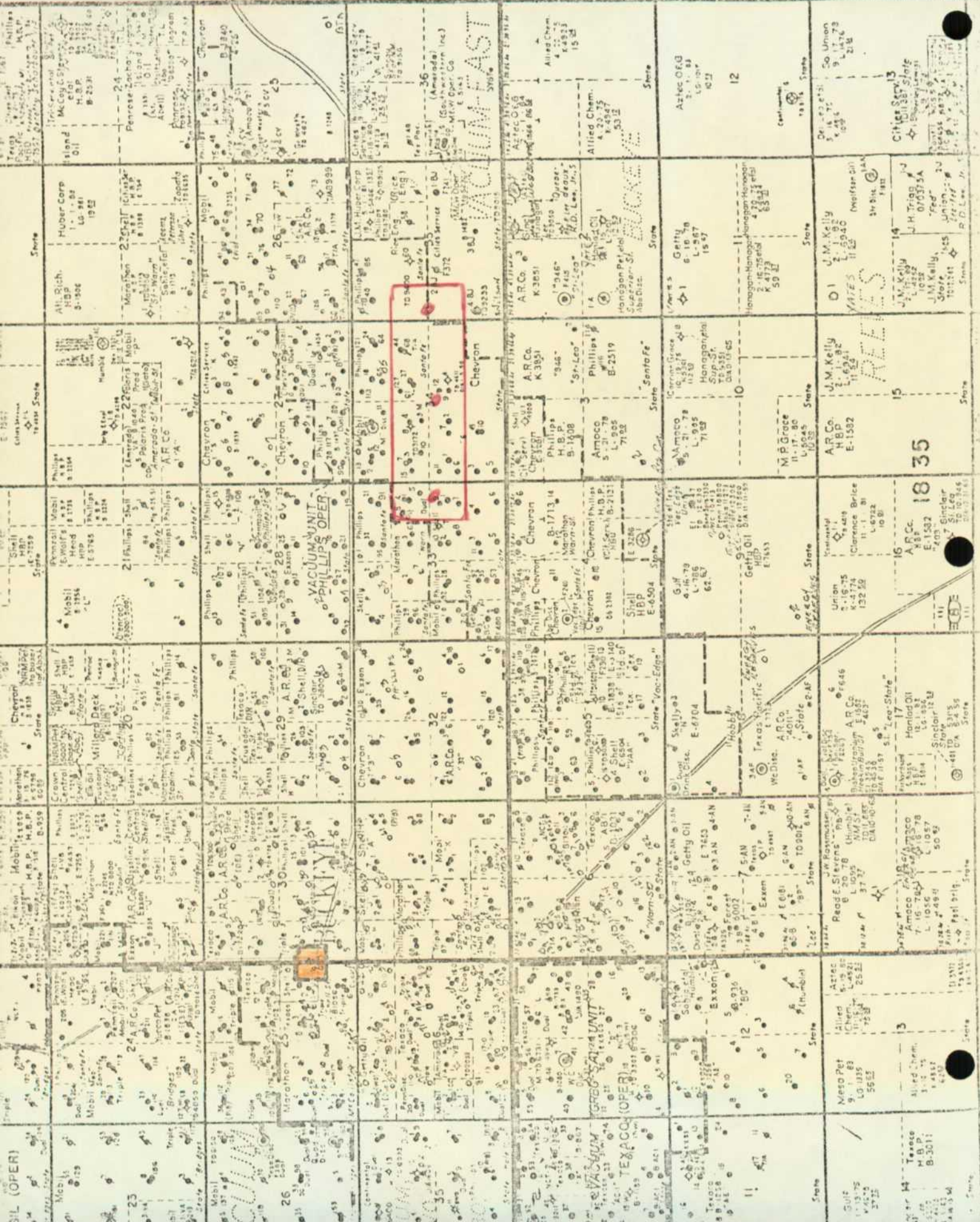
P.O. Box 99

Hobbs, New Mexico 88240

5 P.M. Red car white

10-16-80





Ash 1963

Ground water movement
estimated to be 150 ft
year.

150 ÷

365 =

0.411 feet per day

feet per day

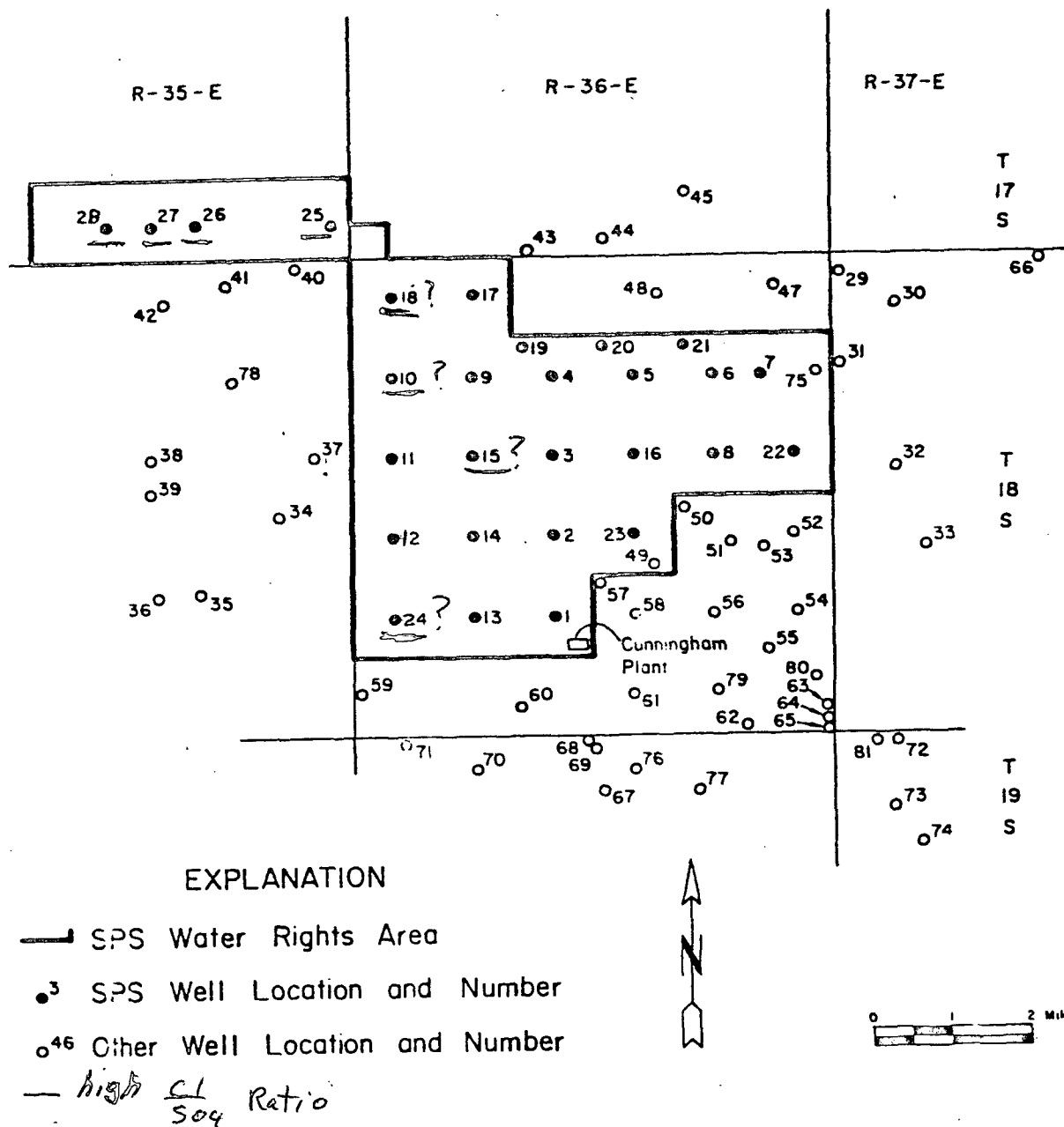
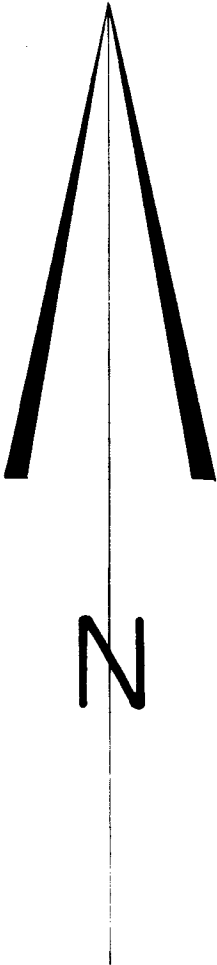


Figure 1 WATER RIGHTS AREA AND WELL LOCATIONS

23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300	301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400	401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481
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28	27
33	34

27	26
34	35



○ SW-1

○ SW-2

○ SW-3

□ Supply Well
No. 28

□ Supply Well
No. 27

□ Supply Well
No. 26

○ SW-5

○ SW-4

33	34
4	3

34	35
3	2

T 17 S

T 18 S

R 35 E

STATE OF NEW MEXICO OFFICE OF STATE ENGINEER		
LEA COUNTY UNDERGROUND WATER BASIN Wells and test holes in the vicinity of Section 34, Township 17 S, Range 34 E		
Date	October 3, 1980	Scale 1" = 400'
Engineer Drawn by	R. J. McBryer	Serial
Approved	J. C. Groseclose	Sheet No. WR-110-D

FE-1

State of New Mexico
State Engineer

WELL SCHEDULE

Source of data: Obser ☒ Owner ☐ Other _____Date 10.2 1980 Record by GROSECLOSE & JONESLOCATION: County LEA Map 180.1.0OWNER SOUTHWESTERN PUBLIC SERVICE CO.DRILLER SCARBOROUGH Completed 8-24 1980TOPO SITUATION _____ SED. Elev 3938.4DEPTH 224 ft ☒ Rept ☐ Meas Use TEST HOLECASING 3" PLASTIC in to _____ ft Log DRILLERS

PUMP: Type _____ Make _____

Ser.no./model _____ Size of dischg _____ in.

PRIME MOVER: Make _____ HP _____

Ser.no. _____ Power/Fuel _____

PUMP DRIVE: ☐ Gear Head ☐ Belt Head ☐ Pump JackMake _____ Ser.no. _____ ☐ VHSWATER LEVEL: 59.87 ft ^{rept} 10-3 1980 ^{above} belowTOP OF CASING_____ which is 1.89 ft ^{above} below LS

PERMANENT RP is _____

which is _____ ft ^{above} below described MP and _____ ft ^{above} below LS

REMARKS _____

73

Well No. _____ on Photo _____ DPN _____

File No S.W.-1 Loc. No. 17.35.33.2241413

Remarks cont. _____

SKETCH:

N



INITIAL WATER- LEVEL MEASUREMENT	DEPTH TO WATER			
	Below MP			Below LS
	1st	2nd	3rd	
Date <u>10</u> <u>2</u> , 19 <u>80</u>	60.00			59.87
Hour <u>AM</u> <u>7:42</u> PM Obs <u>7:42</u>	0.13			1.89
Not POA () POA ()	59.87	59.87		57.98
W L meas after pump shut off _____ min. Pumping W L ()				
Remarks <u>11.13. 11.11-SCOPE</u>				

FE-1

State of New Mexico
State Engineer

WELL SCHEDULE

Source of data: Obser ☒ Owner ☐ Other _____Date 10-2 1980 Record by GROSECLOSE & JONESLOCATION: County LEA Map 180.1.0OWNER SOUTHWESTERN PUBLIC SERVICE CO.DRILLER SCARBOROUGH Completed 8-25 1980TOPO SITUATION _____ Elev 39.30.4DEPTH 244 ft ☒ Rept ☐ Meas Use TEST HOLECASING 3" PLASTIC in to _____ ft Log DRILLERS

PUMP: Type _____ Make _____

Ser.no./model _____ Size of dischg _____ in.

PRIME MOVER: Make _____ HP _____

Ser.no. _____ Power/Fuel _____

PUMP DRIVE: ☐ Gear Head ☐ Belt Head ☐ Pump JackMake _____ Ser.no. _____ ☐ VHSWATER LEVEL: 56.12 ft rept 10.3 1980 above
meas belowTOP OF CASING
_____ which is 1.62 ft above
below LS

PERMANENT RP is _____

which is _____ ft above
below described MP and _____ ft above
below LS

REMARKS _____

AQUIFER(S): Tog

Well No. _____ on Photo _____ DPN _____

File No. SW-2 Loc. No. 17.35.34.1214122

Remarks cont. _____

SKETCH:



INITIAL WATER- LEVEL MEASUREMENT	DEPTH TO WATER			
	Below MP			Below
	1st	2nd	3rd	LS
Date <u>10</u> <u>2</u> 19 <u>80</u>	<u>55.00</u>			<u>56.12</u>
Hour <u>AM</u> <u>Obs</u> <u>26/RT</u>	<u>41.12</u>			<u>1.62</u>
Not POA () POA ()	<u>56.12</u>	<u>56.12</u>		<u>54.50</u>

W L meas after pump shut off _____ min. Pumping W L ()
 Remarks MEAS. WITH HT SCOPE

FE-1

State of New Mexico
State Engineer

WELL SCHEDULE

Source of data: Obser ☒ Owner ☐ Other _____Date 10-2 1980 Record by GROSECLOSE & JONESLOCATION: County LEA Map 180.1.0OWNER SOUTHWESTERN PUBLIC SERVICE CO.DRILLER SCARBOROUGH Completed 8-25 1980TOPO SITUATION _____ SED Elev 3924.2DEPTH 244 ft ☒ Rept ☐ Meas Use TEST HOLECASING 3" PLASTIC in to _____ ft Log DRILLERS

PUMP: Type _____ Make _____

Ser.no./model _____ Size of dischg _____ in.

PRIME MOVER: Make _____ HP _____

Ser.no. _____ Power/Fuel _____

PUMP DRIVE: ☐ Gear Head ☐ Belt Head ☐ Pump JackMake _____ Ser.no. _____ ☐ VHSWATER LEVEL: 51.08 ft ^{rept} 10-3 1980 ^{above} belowTOP OF CASING_____ which is 1.55 ft ^{above} below LS

PERMANENT RP is _____

which is _____ ft ^{above} below described MP and _____ ft ^{above} below LS

REMARKS _____

APPROVED (S) T.g

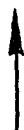
Well No. _____ on Photo _____ DPN _____

File No SW-3 Loc. No. 17.35.34.22/34/11

Remarks cont. _____

SKETCH:

N



INITIAL WATER- LEVEL MEASUREMENT	DEPTH TO WATER			
	Below MP			Below LS
	1st	2nd	3rd	
Date <u>10</u> <u>2</u> 19 <u>80</u>	<u>51.00</u>			<u>51.08</u>
Hour <u>AM</u> <u>12</u> <u>26</u> <u>PJ</u> <u>PM</u> Obs	<u>1.08</u>			<u>1.55</u>
Not POA () POA ()	<u>51.08</u>	<u>51.08</u>		<u>49.53</u>

W L meas after pump shut off _____ min. Pumping W L ()

Remarks _____

WELL SCHEDULE

Source of data: Obser ☒ Owner ☐ Other _____
Date 10-2 1980 Record by GROSECKE & JONESLOCATION: County LEA Map 180.1.0OWNER SOUTHWESTERN PUBLIC SERVICE CO.DRILLER SCARBOROUGH Completed 9-8 1980TOPO SITUATION _____ SED Elev 3908.1DEPTH 220 ft ☒ Rept ☐ Meas Use TEST HOLECASING 3" PLASTIC in to _____ ft Log DRILLERS

PUMP: Type _____ Make _____

Ser.no./model _____ Size of dischg _____ in.

PRIME MOVER: Make _____ HP _____

Ser.no. _____ Power/Fuel _____

PUMP DRIVE: ☐ Gear Head ☐ Belt Head ☐ Pump JackMake _____ Ser.no. _____ ☐ VHSWATER LEVEL: 47.88 ft rept 10-3 1980 above
meas belowTOP OF CASING_____ which is 178 ft above
below LS

PERMANENT RP is _____

which is _____ ft above
below described MP and _____ ft above
below LS

REMARKS _____

AQUIFER(S) Top

Well No. _____ on Photo _____ DPN _____

File No. SW-4 Loc. No. 17.35.35, 34/3411

Remarks cont. _____

SKETCH:

N



INITIAL WATER- LEVEL MEASUREMENT	DEPTH TO WATER			
	Below MP			Below LS
	1st	2nd	3rd	
Date <u>10</u> <u>2</u> 19 <u>80</u>	50.00			47.88
Hour <u>AM</u> <u>7:06</u> PM Obs <u>1.15</u>	2.12			1.78
Not POA () POA ()	47.88	47.88		46.10

W L meas after pump shut off _____ min. Pumping W L ()

Remarks MENS. WITH M-SCOPE

FE-1

State of New Mexico
State Engineer

WELL SCHEDULE

Source of data: Obser ☒ Owner ☐ Other _____Date 10-2 1980 Record by GROSECHOSE & JONESLOCATION: County LEA Map 180.1.0OWNER SOUTHWESTERN PUBLIC SERVICE CO.DRILLER SCARBOROUGH Completed 7-8 1980TOPO SITUATION _____ SEO. Elev 3930.0DEPTH 244 ft ☒ Rept ☐ Meas Use TEST HOLECASING 3" PLASTIC to _____ ft Log DRILLERS

PUMP: Type _____ Make _____

Ser.no./model _____ Size of dischg _____ in.

PRIME MOVER: Make _____ HP _____

Ser.no. _____ Power/Fuel _____

PUMP DRIVE: ☐ Gear Head ☐ Belt Head ☐ Pump JackMake _____ Ser.no. _____ ☐ VHSWATER LEVEL: 58.91 ft rept 10.3 1980 above
meas belowTOP OF CASING_____ which is 1.70 ft above LS
below

PERMANENT RP is _____

which is _____ ft above
below described MP and _____ ft above
below LS

REMARKS _____

ACQUIFER (S) Tog

Well No. _____ on Photo _____ DPN _____

File No SW-5 Loc. No. 17.35.34.3321211

Remarks cont. _____

SKETCH:

N



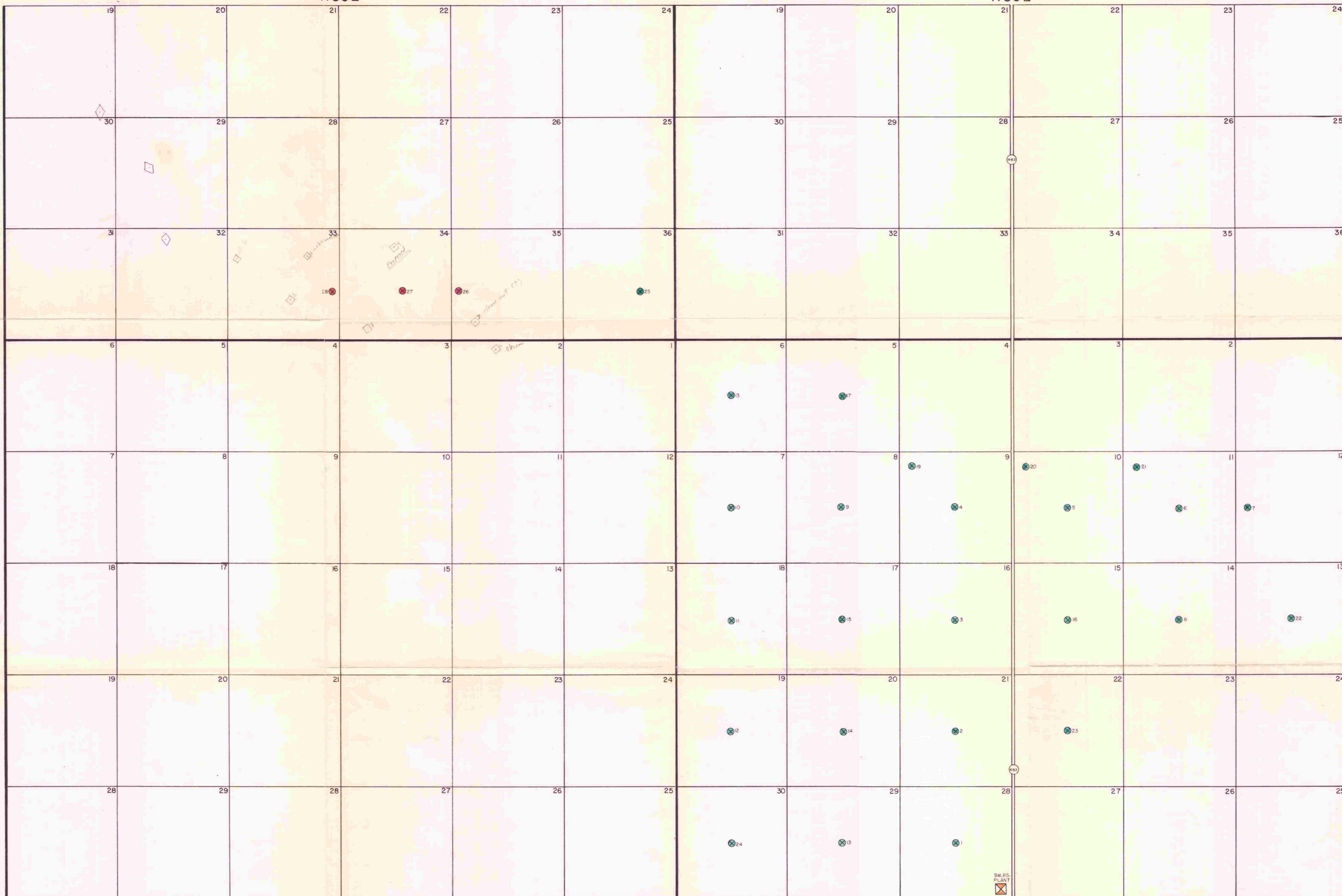
INITIAL WATER- LEVEL MEASUREMENT	DEPTH TO WATER			
	Below MP			Below LS
	1st	2nd	3rd	
Date <u>10</u> <u>2</u> 19 <u>80</u>	<u>60.00</u>			<u>58.91</u>
Hour <u> </u> AM <u>7:01</u> PM <u>PJ</u>	<u>1.09</u>			<u>1.70</u>
Not POA () POA ()	<u>58.91</u>	<u>58.91</u>		<u>57.21</u>

W L meas after pump shut off _____ min. Pumping W L ()

Remarks MEAS. WITH H-SCOPE

R35E

R36E

T
17
ST
17
ST
18
ST
18
SSOUTHWEST PUBLIC SERVICE
WATER PROBLEMScale: 1" = 2000'
Sept. 1979 - J.W.R.