

[illegible]

RECEIVED
SEP 11 1961
OIL CON. COM.
DIST. 3 DEPAR

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078105
LEASE OR PERMIT TO PROSPECT _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
SEP 8 1951

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

200 Petroleum Club Plaza
Farmington, New Mexico

Company Sunray Mid-Continent Oil Co. Address Farmington, New Mexico
Lessor or Tract N.M. Federal "J" Field Dry Hole State New Mexico
Well No. 2 Sec. 23 T. 27N R. 13W Meridian NPM County San Juan
Location 790 ft. N. of S. Line and 790 ft. W. of E. Line of Sec. 23 Elevation 5962
(Check floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Date September 7, 1961 Title Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling 6-24 1941 Finished drilling 7-7 1941

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

Dakota (Denote gas by G)

No. 1, from C 5810 to 6090	No. 4, from _____ to _____
No. 2, from _____ to _____	No. 5, from _____ to _____
No. 3, from _____ to _____	No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____

No. 2, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
0-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
1-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
2-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
3-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
4-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
5-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
6-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
7-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
8-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
9-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
10-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
11-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
12-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
13-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
14-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
15-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
16-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
17-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
18-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
19-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
20-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
21-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
22-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
23-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
24-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
25-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
26-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
27-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
28-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
29-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
30-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
31-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
32-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
33-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
34-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
35-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
36-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
37-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
38-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
39-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
40-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
41-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
42-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
43-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
44-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
45-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
46-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
47-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
48-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
49-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
50-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
51-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
52-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
53-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
54-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
55-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
56-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
57-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
58-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
59-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
60-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
61-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
62-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
63-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
64-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
65-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
66-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
67-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
68-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
69-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
70-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
71-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
72-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
73-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
74-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
75-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
76-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
77-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
78-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
79-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
80-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
81-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
82-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
83-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
84-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
85-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
86-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
87-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
88-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
89-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
90-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
91-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
92-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
93-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
94-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
95-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
96-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
97-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
98-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
99-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
100-10-8	11 1/2	8	F&N	10 1/2	6 1/2	10 1/2	10 1/2	10 1/2	For brining or salting
HISTORY OF OIL OF CV2 WELL									
TO: 4304-S N D POWER & MECH WORKING OFFICE									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8	305	300	Pump & Plug		
4-1/2	6125	300	Pump & Plug		

PLUGS AND ADAPTERS 901

Heaving plug—Material	caement	Length	50'	Depth set	270-320
Adapters—Material		Size	242'		1000-1242
			235'		4975-5210

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 6126 feet, and from _____ feet to _____ feet.

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

DATES

19	Put to producing	19
----	------------------	----

The production for the first 24 hours was ----- barrels of fluid of which ----- % was oil; ----- % emulsion; ----- % water; and ----- % sediment. Gravity, °Bé. -----

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

H. D. Vernon	Driller	Alex Cowan	Driller
F.C. Seale	Driller		Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
			See Attached
			J.C. 1280
			W.H. 3142
			L.L. 3748
			S. Thompson 4936
			Richards 5720
			Do. Notes 5812
ASOFT—	LO—	DOLOVI ECEL	LOENVELOZ

100-105-1-4

WABK FOLD

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

DATE	TIME	NAME	ADDRESS	CITY	STATE	ZIP	PHONE
10/10/77	10:00	JOHN	12345	NEW YORK	NY	10001	212-123-4567

CASINO RECORD

SEMAE ETAW TIAPOPM

(Denois has p. 6)

10 11 12 13 14 15 16 17 18 19 20 21 22 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 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044

The signature on this page is for the condition of the wall at grade only.

1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764

so far as can be determined from all available records:

Signed _____ HAY W. STEPHENS
 DIRECTOR, BUREAU OF PRISONS

The information given herewith is a complete and correct record of the work and work done thereon.

Position Asst. Dir. of Crime and Delinquency Div. of Police Dept. San Francisco

Attn: Mr. J. E. McLaughlin, Chief, Computer Section

1861

Combinata Vagabunda

FOC OF OIG OK CYS MEGG

RECEIVED
JAN 11 1964
U.S. AIR FORCE
AIR MAIL
DELV

DEVELOPMENT OF THE INTERIORS

UNITED STATES

PLEASE OR DENIAL TO PROCEEDS

SECRET NUMBER

U.S. FINE OFFICE. *U.S. FINE OFFICE*

УДК 62-50:62-37:62-96
 ПРИБОРИ ИЗМЕРЕНИЯ

THIS FORM TO BE SUBMITTED ALONG WITH FORM NO. 114 NOT LATER THAN 10 DAYS AFTER WELL COMPLETION OR ABANDONMENT IF A DRY HOLE. SHOW HISTORICAL DETAILS IN CHRONOLOGICAL ORDER, WITH DATE, CONDITION AND DEPTH OF HOLE. SHOW CHANGES IN TYPE OF MUD WITH REASONS. LOST CIRCULATION, BLOWOUTS, SURVEYS FOR DEVIATION FROM VERTICAL, DRILL STEM TESTS, CORING DEPTHS, ELECTRICAL SURVEYS, DESCRIPTION OF POSSIBLE PRODUCING ZONES Cased OFF, DESCRIPTION OF CASING JOBS SHOWING TYPES OF SHOES AND FLOAT EQUIPMENT, DETAILS OF CASING PULLED PRIOR TO COMPLETION, SIDETRACKED FISH, SHOT AND ACIDIZING RECORDS, PLUGS, ETC.

USE TYPEWRITER.

HISTORY OF WELL
AT TIME OF COMPLETION

LEASE M.M. Federal "J" WELL NO. 2
SEC. 23 T. 27N R. 13W COUNTY San Juan
STATE New Mexico FIELD Hildone
A.P.E. NO. 10-744

ALL DEPTHS FROM TOP OF KELLY PUSHING UNLESS OTHERWISE SPECIFIED.

Located 790 FS&EL of Sec. 23, T-27-N, R-13-W, San Juan Co., 6120' Dakota, WI 100%, San Juan Engr. Co. staked loc. 6-14-61, Younger Construction built road & location.

- 6-16,17,18,19-61 Building location, GL Elev. 5948'
6-20-21-61 MORT.
6-22-61 Arapahoe Drig. Co. MIRT
6-23-61 RURT
6-24-25-26-61 Drig day #3, drig @ 1906', made 1596', sped 13-3/4" hole at 7 P.M. 6-23-61, Drig to 310', set 9-5/8" 32.30 R-50 csg. @ 305' w/300 ex reg, con. plus 2X CoG12, FD 12815 P.M. 6-24-61, circ 20 ex at surf, bit #1 in at 310', Dev 3/4 deg @ 1057'.
6-27-61 Drig day #4, trip for bit #5 @ 2856', made 930', Dev 1 deg @ 2614', Wt 9.34, 32 Vis, 10 WL.
6-28-61 Drig @ 3518', made 6629', drig day #5, bit #6, Wt 9.46, 32 Vis,
6-29-61 Drig @ 4168', made 6200', drig day #6, bit #6 in @ 3944', Wt 9.28, 30 Vis.
6-30-61 Drig @ 4715', made 5474', drig day #7, bit #10 in @ 4421', Dev 1 deg @ 4184', Wt 9.08, 38 Vis, 15 WL.
7-1,2,3-61 Drig day #10, trip @ 5008' for bit #14, made 163', bit #12 in @ 5042', #13 in @ 5316', Dev 1 deg @ 5316', Wt 9.08, 40 Vis, 6 WL.
7-4,5-61 Drig day #12, laying down drillpipe, FD 6126', Ran Schl. Robertson log & Sonic-Gamma Ray, bit #16 in @ 5943', #17 in @ 6093', Dev 1-1/4 deg, Mud 10#, 45 Vis, 6 WL.
7-6-61 Completion day #1, Ran 4 1/2 11.60 J-55csg. to 6125', used 18 scrapers & 10 centralizers, cemented w/300 sacks of Dia-Mix w/12% Celconite per sack. Plug down 3/25 P.M. 7-5-61, top of cement by temperature survey 4800', WOC.
7-7-61 Completion day #2, washing sand below perfs, ran 2-3/8" tbg to 5907', pressure tested csg. 2000# for 30 min., OK, ran McGullough PFC log & low to Schl., Perf/5812-24, 5872-80, 5894-5912, Schl. meas. w/4 jets per ft. fracture zone w/70,000 gal wtr & 70,000# sand in 6 stages separated by ball sealers. Broke down 1900 PSI 20,000 gal, IP 2700 PSI, 15 balls, no effect, 8,000 gal, no effect, 12,000 gal, 25 balls IP increased to 2800 PSI, 10,000 gal, 20 balls, IP 2900 PSI, 10,000 gal, 10 balls, no effect, ISIP 2700, 10 min SIP 2500, 4 hr. SIP 2400, bleed off press. Ran tbg & found sand @ 5912'.
7-8,9,10-61 Completion day #5, moving in snubbing unit, washed sand from 5912-5904', set tbg @ 5832', installed Xmas Tree snubbed well 14 hrs, 20 MHW gas cut, rig released 4 P.M. 7-7-61, well shut-in to move out rig, 12 hr. SIP 50#, CP 500#.
7-11-61 Completion day #6, 36 hr shut-in, IP 71 PSI, CP 650 PSI, snubbed 20 hrs. Approx 18 bbls gas out wtr per hr, CP 900 PSI, MHW checked wtr samples (chlorides 13,000) (6-10 P.M., 6-11 A.M. 19,040) say no formation wtr.

CORRECT

ENGINEER

APPROVED

SUPERINTENDENT

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USE TYPEWRITER.

HISTORY OF WELL
AT TIME OF COMPLETION

LEASE N.M. Federal "JN" WELL NO. 2
SEC. 23 T. 27N R. 13W COUNTY San Juan
STATE New Mexico FIELD Wildcat
A.P.E. NO. 10-744

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED.

- 7-12-61 Completion day #7, swabbing wtr w/show gas, swabbing 2000' off bottom, cannot swab down at 25 bbls per hr. rate, chlorides of wtr indicate formation wtr, chlorides 23,800, OK down to 400 PSI to shut down swabbing unit and move in work over unit.
- 7-13-61 MI workover rig.
- 7-14-61 Rigging up workover unit
- 7-15,16,17-61 Lohmann Oil Well Ser. WO Rig, drlg on Model "K" ret. @ 5770', found top of ret @ 5643' tbg meas, pushed to 5770', washed sand from 5890-6085', pulled tbg, ran Baker Ret BP & FBRT, set BP @ 5935', set FBRT @ 5887', pump in csg at 900 PSI, wtr flow out tbg, set pkr @ 5850', pump in csg. @ 900 PSI, wtr flow out tbg, all zones communicated behind csg, swab tbg 1 hr, rec 24 bbl gas cut wtr, FL 1000' from surf, lvr tbg to top of sand @ 5915', wash sand from plug & set BP @ 5850', set FBRT @ 5800', swab 1 1/2 hr, rec 27 bbl gas cut wtr, FL 1000' from surf, lvr FBRT to top of BP, no sand, set BP @ 5930', set FBRT @ 5850', swab 34 bbl gas cut wtr in 2 hr, wash sand 5930-5930', pull BP & FBRT, run tbg w/Baker Model "K" cem ret, set @ 5631', displ 200 ex HOWCO Halad 9 cem, IP 4200 to 4400#, FE 3200#, held OK, WOC 27 hrs.
- 7-18-61 Pulling tbg & FBRT, ran Rotovert scraper to TD, set FBRT @ 5888', press to 4000#, drop to 3900# in 20 min, set FBRT @ 5851', press to 4000#, drop to 3900# in 15 min, perf/5935-36, Schl meas w/4 McCullough Mac-Jet holes, set FBRT @ 5930', press to 1000# for 20 min, no drop, swab tbg to 5650', test dry for 1 1/2 hrs.
- 7-19-61 Swab testing perf @ 5896-5910', set Baker CIRP @ 5932', perf/5896-5910', Schl meas, w/2 McCullough jet holes per ft, set FBRT @ 5885', swab tbg dry, test 4 hrs, no fluid entering hole, slight show of gas following each swab, frst perf w/500 gal mud acid, treating press 3000# @ 2 BPM, final press 3700#, no RD, swab acid back & test, swabbed 35 bbl wtr from annulus, set FBRT @ 5851', swab dry, could not pump into annulus @ 2000#, acid communicated perf @ 5896-5910', with prev perf @ 5872-80'. Swabbed 108 bbls of salt wtr, chlorides average 17,500 FPM in 11 hrs, Pulled tbg and full bore, ran Baker Model "K" sag cem retainer @ 5643', squeezed w/100 ex Halad 9, pumped into zones @ 2500 PSI w/wtr mixed & displaced cem, final squeeze press 4100 PSI, squeeze complete 3/30 A.M. WOC.
- 7-20-61 WOC following squeeze of perf 5896-5910'.
- 7-21-61 Swabbing 20-25 bbls gas cut wtr per hr, FL 3500', slight show of free gas while subg, CP 100#, DO ret and cem to 5932' FBRT pull tbg & bit, test csg to 3500#, held OK, Run McCullough triple notch cutter, cut free notch @ 5903', Schl meas, press to 4500#, no RD, run McCullough notch cutter, cut free notch @ 5900, Schl meas, run tbg & Baker FBRT set @ 5888', press to 5000# for 1 hr, could not pump into formation, spot 100 gal MCA below FBRT, alternately press & release press for 1 1/2 hr before formation gradually started taking fluid, displ acid @ 4500, spot 2nd 100 gal acid on formation, displ acid @ 1/2 BPM @ 4500#, press drop to 4000#, apparently communicated with old perf @ 5872-80', reset FBRT @ 5851', no communication above pkr, displ 100 gal MCA @ 5 RPM @
- 7-22,23,24-61

CORRECT

ENGINEER

APPROVED

SUPERINTENDENT

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USE TYPEWRITER.

HISTORY OF WELL AT TIME OF COMPLETION

LEASE N.M. Federal "J" WELL NO. 2
SEC 23 T. 27N R. 13W COUNTY San Juan
STATE New Mexico FIELD Wildcat
A.P.E. NO. 40-744

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED.

7-22,23,24-61
Con't 3700#, pull tbg & FBRT, sand-wtr frac perf w/31,500 gal semi-gelled wtr plus 30,000# 20-40 mesh sd, pump in @ 4150#, break to 3700#, avg rate 32.5 BPM @ 3600#, flush w/100 bbls wtr @ 4000#, final press, instant SI 2400#, 2000# in 10 min, 1200# in 1 1/2 hr, bled off press, ran tbg, found top of sand @ 5903', circ to PSTD 5932', set tbg @ 5862', swab tbg for 15 hr.

7-23-61 Swab 9 hrs, swabbing FL drop from 3500 to 4000', rec 20-25 bbls gas cut wtr per hr, CP 220#, gas seemed to be incr sl, chlorides increased from 11,900 PPM at start of swab test to 20,000# at end, install BOP, pull tbg, perf/5929-30', Schl meas, w/4 McGullough jet shots, run bit & Baker Rotavert scraper to PSTD 5932', pull bit & scraper, run FBRT on 2" tbg, set @ 5924', press to 3000# for 15 min, no press drop, reset FBRT @ 5926', press to 5000# for 15 min, no press drop, pull tbg & FBRT, set CIER @ 5925' (new PSTD) Schl meas.

7-26-61 Trip for new bit @ 5676', set Baker Model "K" Ret @ 5595', mix 100 ex neat cem plus .5# Haled 9 & 2% CaCl2/sk, sqz frac notches @ 5900' & 5903, displ 75 ex to final press 5000#, rev circ 25 ex, WOC 13 hrs, run bit & scraper, DO Model "K" Ret @ 81' com.

7-27-61 Drilled & CO cut to top of BP @ 5921', Schl meas, tested csg to 4500 PSI, had small bleed off, ran Baker FB & located leak, leak was around BP, perf/5920-21', Schl meas, w/4 bullets.

7-28-61 WOC for cem sqz #3, set CI Ret @ 5916', Schl meas, run tbg, latch into Ret, press to 6000 PSI, pump into perf @ 5920-21', @ 1/8 BPM @ 6000 PSI, pump 1/2 BPM @ 7100 PSI, spot 125 gal BDA below Ret, alternately press to 5000# & release press, BD perf, able to pump 1 1/2 BPM @ 4000 PSI, annulus press incr, opened rams on BOP, able to circ below ret @ 5916' & have returns thru old perf, acid apparently communicated again, pull tbg, run Baker Model "K" Mag Ret on 2" tbg, set @ 5738', Schl meas, mix 60 ex neat cem plus 1/2# Cement & 2% CaCl2/sk, displ 55 ex to final press of 5200 PSI, Press held OK, rev out 5 ex cem, pulled tbg.

7-29,30,31-61 WOC for sqz #4, DO Model "K" Ret @ 5738' & cem to 5916', press csg to 4000 PSI, drop to 3400 PSI in 15 min, DO CI Ret @ 5916', DO CIER @ 5925' and CIER @ 5932', found cem below ret @ 5916' and CIER @ 5925', no cem below CIER @ 5932', CO to PSTD 6099', tbg meas, press csg, started taking fluid @ 3000 PSI, able to pump 1 1/2 BPM @ 3800 PSI, pull bit & tbg, run tbg to 5763', displ 5 millicuries of radioactive sodium to bottom of tbg, trace fluid entry to perf @ 5935-36', fluid channelled beside pipe into zone @ 5956-66', no other zone taking fluid, no tracer logged above 5935' behind csg except for very sl amount opposite old perf @ 5876-84', apparently wtr has been channelling from below, Set Baker Model "K" MG Ret @ 5578', mix 100 ex neat cem w/.5# Haled 9 and 2% CaCl2/per ex, sqz 75 ex into formation to final and max press of 5000 PSI, held OK, pull tbg, job comp. at 3 A.M. 7-31-61.

8-1-61 Drlg Baker Retainer @ cement to PSTD 6099', bottom of cement @ 5935', Opposite bottom perfs, press to 4000# for 15 min, held OK, now on bottom w/tbg, prep to cut abrasive jet notch.

CORRECT

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USE TYPEWRITER.

HISTORY OF WELL
AT TIME OF COMPLETION

LEASE N.M. Federal "J" WELL NO. 2
SEC. 23 T. 27N R. 13W COUNTY San Juan
STATE New Mexico FIELD Wildcat
A.P.E. NO. 10-744

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED.

8-2-61

Run 2-3/8" tbg w/Dowell abras-jet to 5898' (Schl meas), used 2 stage jet w/30,000# ad to cut notch @ 4000PSI, circ hole clean, press csg to 4500 PSI, bleed off to 4200 PSI in 10 min, pull tbg & tool, rig up Lane Wells "E" gun, perf 7 "E" gun bullets @ 5898', Schl meas, press csg to 4500 PSI, bleed off to 3200 PSI in 16 min, rig up Welx Bear gun, perf 5900, Schl meas, w/i Bear gun shot, press csg to 4500 PSI, bleed off to 3500 PSI in 15 min, perf 5899', Schl meas, w/Bear gun, press csg to 4500 PSI, bleed off to 3700 PSI in 6 min, perf 5898', Schl meas, w/Welx Bear gun, press csg to 4500 PSI, bleed off to 3500 PSI in 10 min, run 2-3/8" tbg & Baker FBRT w/30' joint tbg below pkr, lower tailpipe thru perf sec., no restriction. Set FBRT @ 5858', press to 5000 PSI on tbg & 2500 PSI on csg, pump into formation @ 3 to 4 BPM @ 4800 PSI, treat perf w/7800 gal semi-gelled wtr plus 3700# 20-40 mesh ad thru tbg w/pkr @ 5858, max press 5200 PSI, break to 4800 PSI, avg rate 8 BPM, instant SD 3100 PSI, 5 min SD 2500 PSI, 10 min SD 1900 PSI, release press on tbg, rig up swab, prep to swab tbg, will pull tbg & FBRT, treat perf w/30,000 gal & 30,000# down csg, run tbg & swab test.

8-3-61

Swab fluid to 5700', swab test 8 hrs, rec 2 bbl gas cut wtr per hr, no free gas, pull tbg & FBRT.

8-4-61

Frac well w/21,700 gal wtr, w/500# WAC 8, 100# WC4, 30 gal Hyflo, 16,000# sand, BDP 4,500-4,300, max treating press 4900#, flush and overflush w/115 bbls wtr, frac avg 25.5 BPM, flush avg 8.4 BPM, overall avg 18 BPM, instant SI 4850, 5 min 3100, 10 min 1900#, 4 hrs SI 1650#, bleed off press, go in hole w/tbg, check TD @ 5924', set tbg @ 5870', start swab @ 2 P.M., slightly gas cut wtr, @ 5 A.M. 8-4-61 fluid level @ 5600', 15 BPH of gas cut wtr, CP too slight to register.

8-5,6,7-61

Pull tbg, set Baker CIRE @ 5880', Schl meas, w/1 sk cem on plug, perf/ 5813 & 5817', Schl meas, w/2 Welx Beargun shots.
DST #1, Run HOWCO tool on tbg, set pkr @ 5705', open tool fair blow 1 1/2 hr, rec 3300' sl salty wtr, no free gas, IHP 2420#, FHP 2420#, LFP 195#, FFP 1445#, PSIP 2085 after 15 min, set Baker CIRE @ 5280', Schl meas, w/1 sk cem on plug, PSTD 5274', Schl meas, perf Gallup Sand, 5177-89', w/4 LW "E" gun bullets/ft.
DST #2, Run HOWCO tool on tbg, set pkr @ 5108, open 7 minutes, sl show of gas at surf & pkr failed, pulled pkr & tbg, no show of oil.
DST #3, run HOWCO tool on tbg, set pkr @ 5117', Schl meas, open tool, weak blow for 20 min & died, bypassed tool, no additional blow, open total 1 hr, rec 35' sl salty wtr, no show of oil or gas, IHP 2230#, FHP 2200#, LFP 20#, FFP 0, PSIP after 20 min 50#.
Pull tbg & tool, run 2-3/8" tbg to 5107' tubing point, release Lehmann Oil Well Service Co. @ 8 A.M. 8-6-61, well comp, temporarily abandoned.

CORRECT

ENGINEER

APPROVED

SUPERINTENDENT