

PROJECT WORK RECORD CARD

2. LOCATION

White, Eugene

4. TYPE OF OBSERVATION

2. *Cr. m. n. v. 1948*

D. Grottel, R. Kuchta

$\frac{1}{2} \leq \frac{1}{2} \leq \frac{1}{2}$

$$= \frac{1}{2} \left(\frac{1}{\sqrt{2}} + \frac{1}{\sqrt{2}} \right) = \frac{1}{2} \left(\frac{2}{\sqrt{2}} \right) = \frac{1}{2} \left(\sqrt{2} \right) = \frac{\sqrt{2}}{2}$$

$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$ $\frac{1}{8}$ $\frac{1}{9}$ $\frac{1}{10}$ $\frac{1}{11}$ $\frac{1}{12}$ $\frac{1}{13}$ $\frac{1}{14}$ $\frac{1}{15}$ $\frac{1}{16}$ $\frac{1}{17}$ $\frac{1}{18}$ $\frac{1}{19}$ $\frac{1}{20}$ $\frac{1}{21}$ $\frac{1}{22}$ $\frac{1}{23}$ $\frac{1}{24}$ $\frac{1}{25}$ $\frac{1}{26}$ $\frac{1}{27}$ $\frac{1}{28}$ $\frac{1}{29}$ $\frac{1}{30}$ $\frac{1}{31}$ $\frac{1}{32}$ $\frac{1}{33}$ $\frac{1}{34}$ $\frac{1}{35}$ $\frac{1}{36}$ $\frac{1}{37}$ $\frac{1}{38}$ $\frac{1}{39}$ $\frac{1}{40}$ $\frac{1}{41}$ $\frac{1}{42}$ $\frac{1}{43}$ $\frac{1}{44}$ $\frac{1}{45}$ $\frac{1}{46}$ $\frac{1}{47}$ $\frac{1}{48}$ $\frac{1}{49}$ $\frac{1}{50}$ $\frac{1}{51}$ $\frac{1}{52}$ $\frac{1}{53}$ $\frac{1}{54}$ $\frac{1}{55}$ $\frac{1}{56}$ $\frac{1}{57}$ $\frac{1}{58}$ $\frac{1}{59}$ $\frac{1}{60}$ $\frac{1}{61}$ $\frac{1}{62}$ $\frac{1}{63}$ $\frac{1}{64}$ $\frac{1}{65}$ $\frac{1}{66}$ $\frac{1}{67}$ $\frac{1}{68}$ $\frac{1}{69}$ $\frac{1}{70}$ $\frac{1}{71}$ $\frac{1}{72}$ $\frac{1}{73}$ $\frac{1}{74}$ $\frac{1}{75}$ $\frac{1}{76}$ $\frac{1}{77}$ $\frac{1}{78}$ $\frac{1}{79}$ $\frac{1}{80}$ $\frac{1}{81}$ $\frac{1}{82}$ $\frac{1}{83}$ $\frac{1}{84}$ $\frac{1}{85}$ $\frac{1}{86}$ $\frac{1}{87}$ $\frac{1}{88}$ $\frac{1}{89}$ $\frac{1}{90}$ $\frac{1}{91}$ $\frac{1}{92}$ $\frac{1}{93}$ $\frac{1}{94}$ $\frac{1}{95}$ $\frac{1}{96}$ $\frac{1}{97}$ $\frac{1}{98}$ $\frac{1}{99}$ $\frac{1}{100}$

2012 21000

17020 17021 17022 17023 17024

2

9. SUBS

2

12. CONCLUSIONS

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 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220 1221 1222 1223 1224 1225 1226 1227 1228 1229 1230 1231 1232 1233 1234 1235 1236 1237 1238 1239 1240 1241 1242 1243 1244 1245 1246 1247 1248 1249 1250 1251 1252 1253 1254 1255 1256 1257 1258 1259 1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294 1295 1296 1297 1298 1299 1300 1301 1302 1303 1304 1305 1306 1307 1308 1309 1310 1311 1312 1313 1314 1315 1316 1317 1318 1319 1320 1321 1322 1323 1324 1325 1326 1327 1328 1329 1330 1331 1332 1333 1334 1335 1336 1337 1338

• *Frontier* • *Industry*

1. *Chlorophyll a* (Chl *a*)

634 A.

Journal of Management Education 30(6)

$$F_{\text{max}} = 1.5 \times 10^{-3} \text{ mol/L}$$

Figure 1. *Staphylococcus aureus* strains used in this study.

[illegible][illegible]
$$\frac{d\sigma}{d\Omega} = \frac{1}{4} \left(\frac{e^2}{m} \right)^2 \left(1 + \cos^2 \theta \right) \left(1 + \frac{1}{2} \cos^2 \theta \right) \left(1 + \frac{1}{2} \cos^2 \theta \right) \left(1 + \frac{1}{2} \cos^2 \theta \right)$$
[illegible]

13. BRIEF SUMMARY OF SIGHTING

Aluminous color. Pie shape. Rapid climb.

11. CONTENTS

$$f_{\text{eff}} = \frac{1}{2} \left(\frac{1}{f_{\text{eff}}^{\text{min}}} + \frac{1}{f_{\text{eff}}^{\text{max}}} \right) \quad (1)$$

IR-509-52

Unidentified Flying Objects Sighted Near Wink, Texas

West Texas

Flight Service, MATS, 3800 Newark
Street, N. W., Washington 25, D. C.

18 August 1952

12 August 1952

F-2

Gerald E. Tyler, Major, USAF

Unidentified Air Crew

Teletype FLYOBRPT 130448Z August submitted by Carswell Flight Service Center

Two unidentified flying objects, described as pie-pan shaped and aluminum colored, were sighted 70 miles west of Wink, Texas, by unidentified air crew members flying an SM3 type aircraft. The objects were climbing rapidly to the south towards Mexico when sighted. An apparent exhaust trail which appeared phosphorescent was noted.

GERALD E. TYLER
Major, USAF
Acting Intelligence Officer

Chief, Air Technical Intelligence Center, ATTN: ATIAA-2c

[REDACTED]

Flight Service, MATS
3800 Newark Street, N. W.
Washington 25, D. C.

IR-509-52

2

2

1. Two unidentified flying objects were observed 70 miles west of Wink, Texas, 12 August 1952. The sighting occurred at 1222h30.

2. The witnesses were unidentified in both the Teletype FLYCORPT and the confirming letter. They were flying an SNB aircraft, cruising at 130 knots, at an altitude of 10,000 feet when the objects were sighted. The objects were observed visually by the pilot and co-pilot simultaneously, passing ahead of the aircraft and crossing the flight path. The objects were described as pie-pan shaped and aluminum colored. They were climbing rapidly to the south toward Mexico. Exhaust appeared phosphorescent.

3. Weather in the area at the time of sighting was clear, visibility 15 miles, winds at 10,000 feet were 160° at 12 knots.

4. There was no known air traffic in the general area at the time of sighting.

Comments of Preparing Officer:

1. The lack of witness information in the original report precludes accurate judgment as to their aerial observer qualifications.

2. The date-time group in the original FLYCORPT was in error by 2 1/2 hours.

[REDACTED]

ACTION

1 AUG 1952 09 06
1952 AUG 14 01 10

1. ATIAA
2. ATIA
3. C. Files

ACCO!
FROM INFOR. INFOR.

13 PM 9:34

AF21WPE313

TYB312

JEPHQ F222

RR JEDWP

DE JEPHQ 257A

132345Z

FM HQ USAF WASHDC

TO ATIC WPAFB OHIO

FROM AF CIN 45730 FOLLOWING TWO MESSAGES RECEIVED FROM OLMSTEAD FLT

WVC CENTER. "CIRVIS 33 DEG 35 MIN W UNIDENTIFIED FLYING OBJECT

HEADED SOUTH ALT 10000 TO 15000 FEET VERY FAST NO SIZE OR SHAPE.

TRAILING BLUE LIGHTS SIMILAR TO AIRCRAFT EXHAUSTS. LAST PART OF

OBSERVATION OBJECT SEEMED TO CURVE UPWARD AND DISAPPEAR ENTIRELY

DID NOT APPEAR TO BE METEOR. [REDACTED] 14150 MCVINE STS

ONLAND CALIF PILOT OF WESTERN AIRLINES FLT 323 COPILOT ALSO

WITNESSED OBJECT 12 AUG 1953Z. SECOND MESSAGE. "CIRVIS. UNIDENTIFIED

OBJECT SIGHTED 70 MILES WEST OF WINK TEXAS TWO PIE PAN SHAPED

OBJECTS OBSERVED CLIMBING ON A SOUTHERLY HEADING COLOR SILVER SIZE

PAGE TWO JEPHQ 257A

UNKNOWN EXHAUST SEEMED PHOSPHORESCENT COURSE AND FLIGHT ATTITUDE

STEADY AND FAST SIZE UNDETERMINABLE. V 9650 10000 FEET OBJECTS

PASSED AHEAD OF OBSERVING A/C OBSERVED 8-10 SECONDS COPILOT VERIFIED

INFORMATION. WEATHER CONDITIONS CLEAR 15 MILES VISIBILITY WINDS

30 DEGREES 12 KNOTS TIME 12/2448Z PILOTS NAME HUBER STAN L LT USN

A/C NR V 9652."

12/2452Z AUG JEPHQ

13 AUG 52 09 11Z

ACTION

1302 AUG 52

W

ATK

NFQ

RA113

JEDWP 21

EMERGENCY JEDWP

DE JEDWP 12

O 130816Z

FM CARSWELL FLIGHT SERVICE CARSWELL AFB TEX

TO ZEN/DIRECT OF INTELLIGENCE HDQTRS USAF WASHDC

ZEN/CG ENT AFB COLORADO SPRINGS COLO

JEDWP/AIR TECHNICAL INTELLIGENCE CENTER WRIGHT PATTERSON AFB OHIO

ZEN/COMATS INTELLIGENCE DIVISON WASHDC

ZEN/COMB FLIGHT SERVICE WASHDC

FLYOB RPT

1. TWO PIE PAN SHAPED ALUMINUM COLORED OBJECTS SIGHTED 70 MILES

WEST OF WINK TEXAS OBJECTS WERE CLIMBING RAPIDLY TO THE

SOUTH TOWARD MEXICO EXHAUST APPEARED PHOSPHORESCENT

2. 12/0448Z

3. OBJECTS OBSERVED VISUALLY A/C WAS SNB 130 KNOTS AT 10000FT

4. OBJECTS OBSERVED BY PILOT AND COPILOT SIMULTANEOUSLY PASSING AHEAD
AND ACROSS FLIGHT PATH.

5. WEATHER. CLEAR VISIBILITY 15 MILES WINDS 160 DEGREES 12 KNOTS

6. NO OTHER INFORMATION

13/0843Z AUG JEDWP

Ag-1

SECRET INFORMATION

PRIORITY CONFIDENTIAL

FM 3 BOMB WG (L) IN KUNI AB JAPAN 120814Z

TO ADF ENT AFB COLO

CHIEF ATIC WPAFB OHIO

INFO FEAF TOKYO JAPAN

CS USAF WASH DC ATTN D/I DCS/O

13 AUG 52 13 56

PARAPHRASE NOT REQUIRED. SEE CRYPTO-CENTER
BEFORE DECLASSIFYING

REF: 734

ACTION

IN COMPLIANCE WITH PAR 4D LETTER HQ DTD 5 MAR 52 AG350.07 FOLLOWING INFORMATION IS SUBMITTED: (1) ORANGE LIGHT, ORBITING LEFT AT 8000 FEET. APPROX 200 KNOTS, LIGHT SPIRALED DOWN TO BELOW 1500 FEET. THEN STOPPED IN MID AIR, NO AERODYNAMIC FEATURES, TRAILOR EXHAUST, PROPULSION SYSTEM, SOUND, NOTED, LIGHT WENT OUT AFTER REMAINING STATIONARY FOR 2 OR 3 MINUTES. (2) SIGHTED 102145I (3) OBSERVED VISUALLY, SIGHTING CONFIRMED BY FLARE PLANE, CALL SIGN FAT FACE 1, BELONGING TO NAVAL STATION VP9. REPORTING ACFT ATTEMPTED TO TRACK OBJECT ON RADAR WITH NEGATIVE RESULTS, RADAR SET APS, 19 USED, RADAR SET INOPERATIVE BEFORE AND AFTER SIGHTING. (4) OBSERVING ACFT LOCATED AT YC3639 ORBITING. LIGHT EAST OF OBSERVER ON WESTERLY HEADING, ABOVE OBSERVER WHEN FIRST SIGHTED, ESTIMATED AT 8000 BECAUSE LIGHT WAS BETWEEN FLARE ACFT AT 9500 FEET AND OBSERVER AT 6000 FEET. (5) OBSERVER MAJOR JAMES D MCGOUGH, UNITED STATES MARINE CORPS, 021167, ASGD MARINE SQUADRON VMF(N) 513. 10 YEARS FLYING EXPERIENCE. 1 MONTH IN THIS THEATER, SEEMS STABLE, CALM, AND RATIONAL PERSONALITY. (6) WEATHER CEILING UNLIMITED. VISIBILITY 10 TO 15 MILES IN HAZE. (7) NO ACTIVITY OR CONDITIONS TO EXPLAIN SIGHTING. (8) NO PHYSICAL EVIDENCE. (9) ATTEMPTED INTERCEPTION, NEGATIVE RESULTS
13/1430Z AUG

2386

7-3719-11