

U. S. LAND OFFICE Jicarilla Tribal
SERIAL NUMBER Jicarilla Contratt
LEASE OR PERMIT TO PROSPECT 147UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Pan American Petroleum Corporation Address Box 487, Farmington, New Mexico
Lessor or Tract Jicarilla Contratt 147 Field Undesignated Dakota State New Mexico
Well No. 1 Sec. 8 T. 25N R. 5W Meridian N.M.P.M. County Rio Arriba
Location 870 ft. N of 1/4 Line and 790 ft. E of 1/4 Line of Section 8 Elevation 6760 (RDB)

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.

ORIGINAL SIGNED BY

Signed

R. M. Bauer Jr.

Date February 19, 1960

Title

Area Engineer

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

Commenced drilling December 26, 1959 Finished drilling January 29, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 7166 to 7186 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. 3, from _____ to _____
No. 2, 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—	
<u>8-5/8"</u>	<u>22.7</u>	<u>Slip Joint</u>	<u>Amco</u>	<u>478</u>	<u>Guide</u>				<u>Surface</u>
<u>(4-1/2)</u>	<u>11.6</u>	<u>8RT</u>	<u>J-55</u>	<u>1413</u>	<u>Guide</u>				<u>Oil String</u>
<u>(4-1/2)</u>	<u>9.5</u>	<u>8RT</u>	<u>J-55</u>	<u>6142</u>	<u>Guide</u>				<u>Oil String</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8"</u>	<u>493'</u>	<u>300 sacks of cement</u>	<u>Halliburton I plug</u>		
<u>4-1/2"</u>	<u>7530</u>	<u>700 sacks of cement</u>	<u>Halliburton DV tool</u>		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

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

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from 0 feet to 7530 feet, and from _____ feet to _____ feet

DATES

Completed as shut in Undesignated Dakota Put to production (Shut in for pipeline connection)
Gas well February 13, 1960 The production for the first 24 hours was _____ barrels of fluid of which February 13, 1960
Preliminary test 1595 CPD _____ % 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. 1595

(Sundry Reports to be filed when Potential Test is taken)

_____, Driller
Jack Brown, Driller Paul White, Driller
J. D. Loden, Driller D. R. Richardson, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>2950</u>	<u>2950</u>	<u>Undifferentiated sands & shales.</u>
<u>2950</u>	<u>3325</u>	<u>375</u>	<u>Pictured Cliffs sand.</u>
<u>3325</u>	<u>4595</u>	<u>1270</u>	<u>Lewis Shale.</u>
<u>4595</u>	<u>4710</u>	<u>115</u>	<u>Cliffhouse sand.</u>
<u>4710</u>	<u>5142</u>	<u>432</u>	<u>Menefee sands, shales & coals.</u>
<u>5142</u>	<u>5290</u>	<u>148</u>	<u>Point Lookout sands & shales.</u>
<u>5290</u>	<u>6305</u>	<u>1015</u>	<u>Mancos shale.</u>
<u>6305</u>	<u>6768</u>	<u>463</u>	<u>Callup sands & shales.</u>
<u>6768</u>	<u>7080</u>	<u>312</u>	<u>Sanastee sands & shales.</u>
<u>7080</u>	<u>7165</u>	<u>85</u>	<u>Greenhorn sands & shales.</u>
<u>7165</u>	<u>7300</u>	<u>135</u>	<u>Graneros sands & shales.</u>
<u>7300</u>	<u>7530</u>	<u>230</u>	<u>Dakota sands & shales.</u>

(OVER) (Tops from 2 log)

FORMATION RECORD—CONTINUED

10478

11. 1.10.2020

DLJOL

DALLAS

EMPLOYEES

Rock Blesse: ps. bel ad. in.

U 892 MG 11 en 12 bel 34 poms

CHAMBERS & SONS, 161, 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,

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SHOOTING RECORD

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EGGS AND ADULTS

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WEDDING AND CELEBRATION RECORD

HISTORY OF OIL OR GAS WELL

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

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

***** 11* hole on December 26, 1939 and

Jicarilla Contract 147 Well No. 1. Spudded 11" hole on December 26, 1959 and drilled to 493'. Set 8-5/8" casing at 493' with 300 sacks cement containing 2% Calcium Chloride. Cement circulated. After waiting on cement, tested casing and water shut off with 500 psi for thirty minutes, which held with no indication of pressure drop. Reduced hole to 7-7/8" at 493' and resumed drilling.

Total depth 7530'. Plug back depth 7493'. 4-1/2" casing was set at 7530'. Cemented first stage with 400 sacks 6% gel cement with 1-1/2 pounds medium tur plug per sack, followed by 100 sacks neat cement. Cemented second stage with 200 sacks 6% gel cement. Received good circulation throughout both stages. Tested casing with 3000 psi for 15 minutes, which held with no indication of pressure drop. Drilled DV spot at 3057'.

Spotted 1000 gallons MCA over Graneros and pulled tubing. Ran correlation log. Tested casing with 3000 psi which held with no indication of pressure drop. Perforated Graneros with four shots per foot 7166-7186. Sand water fracked with 3863 gallons gelled water and 2931 pounds sand with 1% calcium chloride with 1/2 pound per barrels MO-3 with 14 pounds per 1000 gallons MCA-1. Pressure increased to 3000 psi and landed wire. Average injection rate 8 barrels per minute. Not able to complete sand water frack. Finished with 116 barrels water. Pumped in 500 gallons 15% MCA at pressure of 2450-2250 psi. Average injection rate 15 barrels per minute. Re-sand water fracked with 31,500 gallons sand gelled water with 15,000 pounds sand, treated in with 12,000 pounds sand with 1% calcium chloride with 1/2 pound per barrel MO-3 with 14 pounds per 1000 gallons MCA-1. Maximum treating pressure 2900 psi, minimum treating pressure 2200 psi, average injection rate 23 barrels per minute. Landed 2" tubing at 7192 and released rig on February 3, 1960.

FOCAL METEOR CORRECTION
After testing operations, Jicarilla Contract 147 Well No. 1 was completed as shut-
in Undesignated Dakota gas well in February, 1960. Red River and Morrow
1595 MCFPD Pitot Measurement.

GEOLOGICAL SURVEY

DECLINEMENT OF THE INTERIOR

ON LINED STYLES

REVENUE OF DENMARK TO DISCOUNT

SERVICE MEMBER

REVENUE OFFICE

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