

WORKSHEET FOR CALCULATION OF ST. C COLUMN WELLHEAD PRESSURE (P_w)

C-122D
Anupit 9-1-65

COMPANY Yate Petroleum Corp LEASE Kennedy SQ Con WELL NO. 1 DATE 9-8-78

LOCATION: Unit H Section 33 Township 17-S Range 26-E

L 8602 II 8602 L/H 1.000 G 0.641 % CO₂ 0.51 % N₂ 0.43 % H₂S Nil

23/3 3544(348) 5400 2.004 F_t 017548 GH 5514 P_{CT} 672 T_{CT} 370
 44/2 43(1035) 4465
 44/2 330 10(461) 461
 LINE 6002(43162) 54518

LINE	51	1	2	3	4	51	1	2	3	4
1 Q _m	-	0.541	0.792	1.052	1.517	--	0.541	0.792	1.052	1.517
2 T _w (W.H. °R)	603	602	601	600	600					
3 T _s (B.H. °R)	517	520	522	524	524					
4 T = ($\frac{1}{2} \frac{T_w T_s}{T_s}$)	560	561	561.5	562	563		561	561.5	562	563
5 Z (Est.)		.793	.787	.780	.734				.731	
6 T _Z		444.873	441.90	433.36	441.392				438.922	
7 GH/T _Z		12.395	12.478	12.529	12.492				12.563	
8 e ^s (Table XIV)	1.6164	1.5917	1.5962	1.6027	1.5975				1.6015	
9 1-e ^s (Table XIV)		.3717	0.3737	.3761	0.3940				0.3957	
10 P _t	2815.2	2620.3	2467.2	2230.2	1361.2				2230.2	
11 P _t 2/1000	9925.4	6865.97	6089.1	5199.3	3464.1				5199.3	
12 F _t (Table XV)		.46430	0.46792	.47190	.46846				.47110	
13 F _c = F _t T _Z		7.8066	7.7545	7.6923	7.7455				7.7022	
14 F _c Q _m		4.223	6.1445	8.092	11.750				8.1027	
15 L/H (F _c Q _m) ²		19.84	39.72	65.49	132.06				65.65	
16 F _w = L/H (F _c Q _m) ² (1-e ^s)		6.63	14.1	24.6	51.6				24.66	
17 P _w ² = P _t ² + F _w		6892.6	6101.2	5223.9	3515.7				5223.9	
18 P _s ² = e ^s P _w ²	12810.7	10939.1	9941.3	8392.4	5616.3				8392.4	
19 P _s	3574.2	3307.4	3181.2	2893.5	2369.8				2892.7	
20 P = ($\frac{P_t + P_s}{2}$)	3197.2	2963.9	2994.2	2536.9	2115.5				2586.5	
21 P _t = (P/P _{ct})	4.757	4.410	4.153	3.85	3.148				3.249	
22 T _t = (T/T _{ct})	1.5135	1.516	1.5175	1.519	1.5215				1.519	
23 Z (Table XI)	.700	0.793	0.787	0.781	.734				.731	

$$E_{\text{eff}} = \frac{1}{2} \left(E_1 + E_2 \right) = \frac{1}{2} \left(\frac{1}{2} \left(E_1 + E_2 \right) + \frac{1}{2} \left(E_1 + E_2 \right) \right) = \frac{1}{2} \left(\frac{1}{2} \left(E_1 + E_2 \right) + \frac{1}{2} \left(E_1 + E_2 \right) \right)$$

AMPS PRODUCTION CORP.

S30 33, T179, R26E

9, 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, 8

1570 2X

100 Mm 1/10 ckg. CP Pkr; TP 350h

OPB 100-123

1-5-22-78
 (Sharrow)
 1-6-78 Driz 6489'
 1-10-78 Driz 8591'
 1-26-78 TD 8732'; WOCU
 1-31-78 TD 8732'; WOCU
 1-2-79 TD 8732'; PBD 8666'; CML 1-4-79
 1-5-79 (Sharrow) 8600-18' 3000 gals 1-4-79
 1-5-79 (8600-18') 3000 gals 1-4-79
 1-6-79 LOG COFS: Atoka 8359', Morrow Clinton
 Chester 8787'
 LOGS RUN: CML, FDC, DILL
 1-20-79 COMPLETION ISSUED

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NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-1
Effective 1-1-65

RECEIVED

JUL 13 1978

O.C.C.

ARTESIA, OFFICE

Operator
Yates Petroleum Corporation ✓

Address
207 South 4th Street - Artesia, NM 88210

Reason(s) for filing (Check proper box)

New Well ☒ Change in Transporter of:
Recompletion ☐ Oil ☐ Dry Gas ☐
Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐

Other (Please explain)

If change of ownership give name
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name Kennedy 50 Com	Well No. 1	Pool Name, including Formation Kennedy Farms Morrow	Kind of Lease State, Federal or Fee Fee	Lease No.
Location Unit Letter H ; 2510 Feet From The North Line and 660 Feet From The East Line of Section 33 Township 17S Range 26E, NMPM, Eddy County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☒ Navajo Crude Oil Purchasing Company	Address (Give address to which approved copy of this form is to be sent) No. Freeman Ave - Artesia, NM 88210					
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☒ Transwestern Pipeline Company	Address (Give address to which approved copy of this form is to be sent) P. O. Box 2521-Houston, TX 77001					
If well produces oil or liquids, give location of tanks.	Unit H	Sec. 33	Twp. 17S	Rge. 26E	Is gas actually connected? Yes	When Approx 1 week 9-8-78

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Resv.	Diff. Resv.
		X	X					
Date Spudded 5-22-78	Date Compl. Ready to Prod. 7-6-78	Total Depth LTD 8732 DTD 8845'		P.B.T.D. WLPBTD 8666'				
Elevations (DF, RKB, RT, GR, etc.) 3339' GR	Name of Producing Formation Morrow	Top Oil/Gas Pay 8600'		Tubing Depth 8538'				
Perforations 8600-8618'				Depth Casing Shoe 8728'				

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
17 1/2"	13-3/8"	429'	350
12 1/4"	8-5/8"	1443'	1148
7-7/8"	4 1/2"	8728'	570
	2-3/8"	8538'	

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D 2300	Length of Test 24	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.) Back Pressure	Tubing Pressure (Shut-in) 2892	Casing Pressure (Shut-in) Packer	Choke Size 1/2"

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Christine Tomlinson
(Signature)
Christine Tomlinson-Geol. Secty
(Title)
7-12-78

OIL CONSERVATION COMMISSION
APPROVED SEP 19 1978
BY Mike Williams
TITLE OIL AND GAS INSPECTOR

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviated tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for all wells on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of own