

WORKSHEET FOR CALCULATION OF STATIC COLUMN WELLHEAD PRESSURE (Pw) C-122D

Adopted 9-1-65

DATE 10/28/91

COMPANY Yates Petroleum Corporation LEASE Bitter Lakes PX St. WELL NO. 2

LOCATION: Unit E Section 16 Township 10S Range 25E

L 3788.0 H 3788.0 L/H 1.000 G .656 %O₂ .01 %N₂ 8.93 %H₂S 0.00

d 1.995 Fr .017777 GH 2484.9 Pcr 655.1 Tcr 349.5

LINE	1st Rate	2nd Rate	3rd Rate	4th Rate	5th Rate
1 Qm	1.262	1.383	1.562	1.694	0.000
2 Tw(W.H.°R)	522.0	522.0	522.0	522.0	0.0
3 Ts(B.H.°R)	582.0	582.0	582.0	582.0	0.0
4 T=(Tw+Ts)/2	552.0	552.0	552.0	552.0	0.0
5 Z(Est.)	.922	.936	.947	.966	0.000
6 TZ	508.7	516.5	522.9	533.4	0.0
7 GH/TZ	4.884	4.811	4.752	4.658	0.000
8 e ^S (Table XIV)	1.201	1.198	1.195	1.191	0.000
9 1-e ^{-S} (Table XIV)	.167	.165	.163	.160	0.000
10 Pt	602.2	484.2	385.2	223.2	0.0
11 Pt ² /1000	362.6	234.4	148.4	49.8	0.0
12 Fr(Table XV)	.017777	.017777	.017777	.017777	0.000000
13 Fc=FrTZ	9.046	9.182	9.295	9.481	0.000
14 FcQm	11.416	12.704	14.521	16.058	0.000
15 L/H(FcQm) ²	130.314	161.382	210.871	257.852	0.000
16 Fw=L/H(FcQm) ² (1-e ^{-S})	21.807	26.639	34.421	41.334	0.000
17 Pw ² =Pt ² +Fw	384.5	261.1	182.8	91.2	0.0
18 Ps ² =e ^S Pw ²	461.7	312.7	218.5	108.6	0.0
19 Ps	679.5	559.2	467.4	329.5	0.0
20 P=(Pt+Ps)/2	640.8	521.7	426.3	276.3	0.0
21 Pr=(P/Pcr)	.98	.80	.65	.42	0.00
22 Tr=(T/Tcr)	1.58	1.58	1.58	1.58	0.00
23 Z(Table XI)	.922	.936	.947	.966	0.000

Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

RECEIVED

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

DISTRICT II
P.O. Drawer D11, Artesia, NM 88210

DEC 27 1989 SOIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

ARTESIA OFFICE

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Operator YATES PETROLEUM CORPORATION	Well API No. 30-005-61900
Address 105 South 4th St., Artesia, NM 88210	
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)	
New Well <input checked="" type="checkbox"/>	Change in Transporter of:
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Operator <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>
If change of operator give name and address of previous operator	

II. DESCRIPTION OF WELL AND LEASE

Lease Name Bitter Lake PX State	Well No. 2	Pool Name, Including Formation South Pecos Slope Abo	Kind of Lease State, Federal or Fed/	Lease No. LG 855
Location Unit Letter E : 1980 Feet From The North Line and 660 Feet From The West Line Section 16 Township 10S Range 25E, NMPM, Chaves County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil Navajo Refining Co. <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent) PO Box 159, Artesia, NM 88210					
Name of Authorized Transporter of Casinghead Gas Yates Petroleum Corporation <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent) 105 South 4th St., Artesia, NM 88210					
If well produces oil or liquids, give location of tanks.	Unit E	Sec. 16	Twp. 10s	Rge. 25e	Is gas actually connected? Yes	When? 11-14-90

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 Res'v	Diff Res'v
		X	X					
Date Spudded 2-18-83	Date Compl. Ready to Prod. 3-8-83		Total Depth 4150'		P.B.T.D. 4095'			
Elevations (DF, RKB, RT, GR, etc.) 3527.7' Gr	Name of Producing Formation Abo		Top Oil/Gas Pay 3836'		Tubing Depth 3788'			
Perforations 3836-3848'					Depth Casing Shoe 4150'			
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
14-3/4"	10-3/4"		645'		550			
7-7/7"	4-1/2"		4150'		675			
	2-3/8"		3788'					

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 Tank	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 2023	Length of Test 3 hrs	Bbls. Condensate/MMCF -	Gravity of Condensate -
Testing Method (pilot, back pr.) Back Pressure	Tubing Pressure (Shut-in) 320	Casing Pressure (Shut-in) Pkr	Choke Size 1/2"

VI. OPERATOR CERTIFICATE OF COMPLIANCE

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

Signature
Juanita Goodlett - Production Supvr.
Printed Name
12-26-90
Date
Title
(505) 748-1471
Telephone No.

OIL CONSERVATION DIVISION

Date Approved JAN 4 1991

By ORIGINAL SIGNED BY
MIKE WILLIAMS
Title SUPERVISOR, DISTRICT II

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.