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

C-122D
Adopted 9-1-65

COMPANY YPC LEASE Antonio Giovanni (N.S. Fed) WELL NO. 1 DATE 10-22-80

LOCATION: Unit O Section 1 Township 20S Range 28E

L 11167 H 11167 L/H 1.000 G 0.616 % CO_2 0.72 % N_2 2.36 % H_2S 11.1

2 7/8 11126 (5.958) = 64.394
2 3/8 10 (3.98) = 40
1/2 - 2 3/8 26 (18.24) = 475
5 1/2 - 4 4 (1.793) = 32
5.9856 66.841

d 2.4465 F_r [illegible] GH 7314 [illegible] P_{cr} 722 (TABLE IX & X) T_{cr} 412 (TABLE IX & X)

LINE	SI	1	2	3	4					
1 Q_m		0.445	0.610	0.841	1.083					
2 T_w (W.H. °R)	522	527	531	534	536					
3 T_s (B.H. °R)	628	628	627	627	626					
4 $T = (\frac{T_w + T_s}{2})$	575	577.5	579	580.5	581					
5 Z (Est.)	0.7535	.7145	.711	.757	.868					
6 TZ	433.36	412.62	411.67	439.40	504.31					
7 GH/TZ	16.8812	17.726	17.769	16.644	14.502					
8 e^s (Table XIV)	1.0133	1.9139	1.9469	[illegible]	1.7226					
9 $1-e^{-s}$ (Table XIV)		0.4856	0.4864	0.4662	0.4145					
10 P_t	3188.2	2402.1	2110.2	1459.2	732.2					
11 $P_t^2/1000$	10164.6	5901.0	4486.7	2129.3	536.12					
12 F_r (Table XV)	0.63304	0.66471	0.66625	0.62413	0.54386					
13 $F_c = F_r$ TZ		4.0499	4.0405	4.313	4.9495					
14 $F_c Q_m$		1.8022	2.465	3.627	5.3606					
15 $L/H (F_c Q_m)^2$		3.248	6.075	13.157	28.736					
16 $F_w = L/H(F_c Q_m)^2(1-e^{-s})$		1.6	3.0	6.1	12.05					
17 $P_w^2 = P_t^2 + F_w$		5902.6	4489.7	2135.4	548.17					
18 $P_s^2 = e^s P_w^2$	19143.0	11474.1	8741.0	3985.2	944.3					
19 P_s	4375.2	3387.3	2956.5	1996.5	971.7					
20 $P = (\frac{P_t + P_s}{2})$	3781.7	2908.3	2537.4	1727.9	852.0					
21 $P_r = (P/P_{cr})$	4.867	3.743	3.266	2.222	1.096					
22 $T_r = (T/T_{cr})$	1.4025	1.4055	1.412	1.416	1.417					
23 Z (Table XI)	0.7535	0.7145	0.711	0.757	0.868					

ILLEGIBLE

One copy to be filed in District Office (Work copy acceptable)

Form 9-331
Dec. 1973

N.M.O.C.D. COPY

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR
Yates Petroleum Corporation

3. ADDRESS OF OPERATOR
207 S. 4th Street, Artesia, NM 88210

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FSL & 1980' FEL Sec. 1
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
NM 26683

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Antongiovanni MJ Federal

9. WELL NO.
#1

10. FIELD OR WILDCAT NAME
~~Undesignated~~ Wildcat Morrow

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Unit O
Sec. 1-20S-28E. NMPM

12. COUNTY OR PARISH
Eddy

13. STATE
NM

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
3282' GR

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NOV 24 1980
O. C. D.
ARTESIA, OFFICE

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	☐		☐
FRACTURE TREAT	☐		☐
SHOOT OR ACIDIZE	☐		☐
REPAIR WELL	☐		☐
PULL OR ALTER CASING	☐		☐
MULTIPLE COMPLETE	☐		☐
CHANGE ZONES	☐		☐
ABANDON*	☐		☐
(other) squeeze & reperforate			

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U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Propose to pull tubing and packer, run back in hole with tubing and retainer, set retainer at approximately 11,154' and squeeze Morrow perforations 11,174' - 80' w/100 sx. class H cement. Pull tubing, run in hole with tubing conveyed perforating gun and perforate Morrow interval 11,135' - 40' w/4 spf. If required to obtain commercial production, these perforations will be acidized and sand fraced.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Albert R. Stall TITLE Engineer DATE November 17, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

APPROVED
NOV 19 1980
for DISTRICT SUPERVISOR

*See Instructions on Reverse Side