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NEW MEXICO OIL CONSERVATION COMMISSION

JAN 21 1977

O. C. C.
ARTESIA. OFFICE

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease State ☐ Fee ☒
5. State Oil & Gas Lease No.
7. Unit Agreement Name
8. Farm or Lease Name <i>Com</i> CITY OF ARTESIA EQ
9. Well No. 1 1
10. Field and Pool, or Wildcat <i>Und Morrow</i>
12. County EDDY

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 "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL ☐ GAS WELL ☒ OTHER-
2. Name of Operator YATES PETROLEUM CORP.
3. Address of Operator 207 S. 4 TH ST. ARTESIA, NEW MEXICO
4. Location of Well UNIT LETTER <u>J</u> <u>1650</u> FEET FROM THE <u>SOUTH</u> LINE AND <u>1980</u> FEET FROM THE <u>EAST</u> LINE, SECTION <u>24</u> TOWNSHIP <u>17S</u> RANGE <u>25E</u> NMPM.
15. Elevation (Show whether DF, RT, GR, etc.) 3450' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	OTHER <u>ALTER TUBING & PACKER</u> ☒	CASING TEST AND CEMENT JOB ☐	OTHER ☐

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

PULL TUBING AND bridge plug. RUN PACKERS TO EQUIP WELL
AS A SINGLE ZONE MORROW producer.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Jm morgan TITLE Production Foreman DATE 1/15/76
APPROVED BY W.A. Gussert TITLE SUPERVISOR, DISTRICT II DATE JAN 25 1977
CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

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Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-21-75		OCT 30 1975	
Company Yates Petroleum Corporation				Connection None				O. C. C.	
Pool Undesignated				Formation Morrow Gas				Unit ARTESIA, OFFICE	
Completion Date 9-18-75		Total Depth 8406		Plug Back TD 8243		Elevation 3465 KB		Farm or Lease Name City of Artesia EQ	
Csg. Size 4 1/2	Wt. 11.6	d 4.000	Set At 8277	Perforations: From 8133 To 8139		Well No. 1			
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 8116	Perforations: Open Ended		Unit J	Sec. 24	Twp. 17	Rge. 25
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 8116		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 143 @ 8100		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico	
L 8136	H -	G _g 0.653	% CO ₂ 3.06	% N ₂ 0.58	% H ₂ S 0.00	Prover	Meter Run x	Taps F	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g. DWT	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							2410				72.0
1.	3"	12/64	1.250	280	16	92	2015	70	Packer		1.0
2.	3	15/64	1.250	280	32	92	1765	70			1.0
3.	3	16/64	1.250	360	50	106	1568	70			1.0
4.	3	23/64	1.250	400	78	98	1107	70			1.0
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	7.577	68.49	293.2	0.9706	1.237	1.023	637.4
2.	7.577	96.86	293.2	0.9706	1.237	1.023	901.4
3.	7.577	136.60	373.2	0.9585	1.237	1.027	1260.2
4.	7.577	179.53	413.2	0.9653	1.237	1.029	1671.4
5.							

NO.	R _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Dry Gas	Mcf/bbl.
1.	0.43	552	1.49	0.955	A.P.I. Gravity of Liquid Hydrocarbons -	Deq.
2.	0.43	552	1.49	0.955	Specific Gravity Separator Gas 0.653	XXXXXXX
3.	0.55	566	1.53	0.949	Specific Gravity Flowing Fluid XXXXX	
4.	0.61	558	1.50	0.944	Critical Pressure 681 P.S.I.A.	- P.S.I.A.
5.					Critical Temperature 371 R	- R

NO.	P _c ²	P _w *	R _w ²	P _c ² - R _w ²	(1) $\frac{P_c^2}{P_c^2 - R_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n =$
1.	2974.2	2655.2	7050.1	1795.8	4.926	3.39
2.	2974.2	2459.2	6047.7	2798.2		
3.	2974.2	3132.2	4546.3	4299.6		
4.	2974.2	1594.2	2541.5	6304.4		
5.						

Absolute Open Flow 2161 Mcfd @ 15.025	Angle of Slope 52°33'	Slope, n 0.766
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Remarks: * BHP @ (-4671') 8136' used for pressure calculations

Approved By Commission:	Conducted By: Coleman Petr. Engr. Co.	Calculated By: Joe A. Coleman	Checked By: Joe A. Coleman
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