

Submit 3 copies To Appropriate district
Office

DISTRICT I

1625 N. French Dr., Hobbs NM 88240

DISTRICT II

P.O. Drawer DD, Artesia NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec NM 87410

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-105
Revised 1-1-89

WELL API NO 30-025-24559	
5. Indicate Type of Lease State ☐ Fee ☒	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name R.L. Burns ATL	
8. Well No. 1	
9. Pool Name or Wildcat Shoe Bar, North Atoka Gas	

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐ **Recompletion**

2. Name of Operator
Yates Petroleum Corporation

3. Address of Operator
105 South 4th St., Artesia, NM 88210

4. Well Location
Unit Letter P : 330 Feet From The South Line and 330 Feet From The East Line
11 Section 16S Township 35E Range NMPM Lea County

10. Date Spudded 8/9/02 RC	11. Date T.D. Reached N/A	12. Date Completed (Ready to Prod) 9/3/02	13. Elevations (DF & RKB, RT, GR, etc.) 3971' GR	14. Elev. Casinghead
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15. Total Depth 12593'	16. Plug Back T.D. 12140'	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled by	Rotary Tools	Cable Tools
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19. Producing Interval (s), of this completion - Top, Bottom, Name
12004-06', 12030-40' Brunson Atoka

20. Was Directional Survey Made
No

21. Type Electric and Other Logs Run
None

22. Was Well Cored
No

CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED

LINER RECORD					TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET

26. PERFORATION RECORD (INTERVAL, SIZE, AND NUMBER)			27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
12004-06' and 12030-40' (78, 42" holes)			DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
			12004-12040'	2000 gals 7-1/2% Morrow acid w/1000 SCF N2/bbl w/50 balls
			12004-12040'	Frac w/38000 gal 70Q foam w/25000# 20/40 Interprop

28. PRODUCTION							
Date First Production 9/4/02		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. Or Shut-in) Producing	
Date of Test 8/26/02	Hours Tested 24	Choke Size 32/64"	Prod'n for Test Period	Oil - Bbl 0	Gas-MCF 1640	Water - Bbl 0	Gas - Oil Ratio
Flow Tubing Press 250	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl 0	Gas-MCF 1640	Water - Bbl 0	Oil Gravity - API	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
Sold

Test Witnessed By
Rocky Harper

30. List Attachments

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Printed
Signature Stormi Davis Name Stormi Davis Title Regulatory Compliance Technician Date 9/9/02

Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

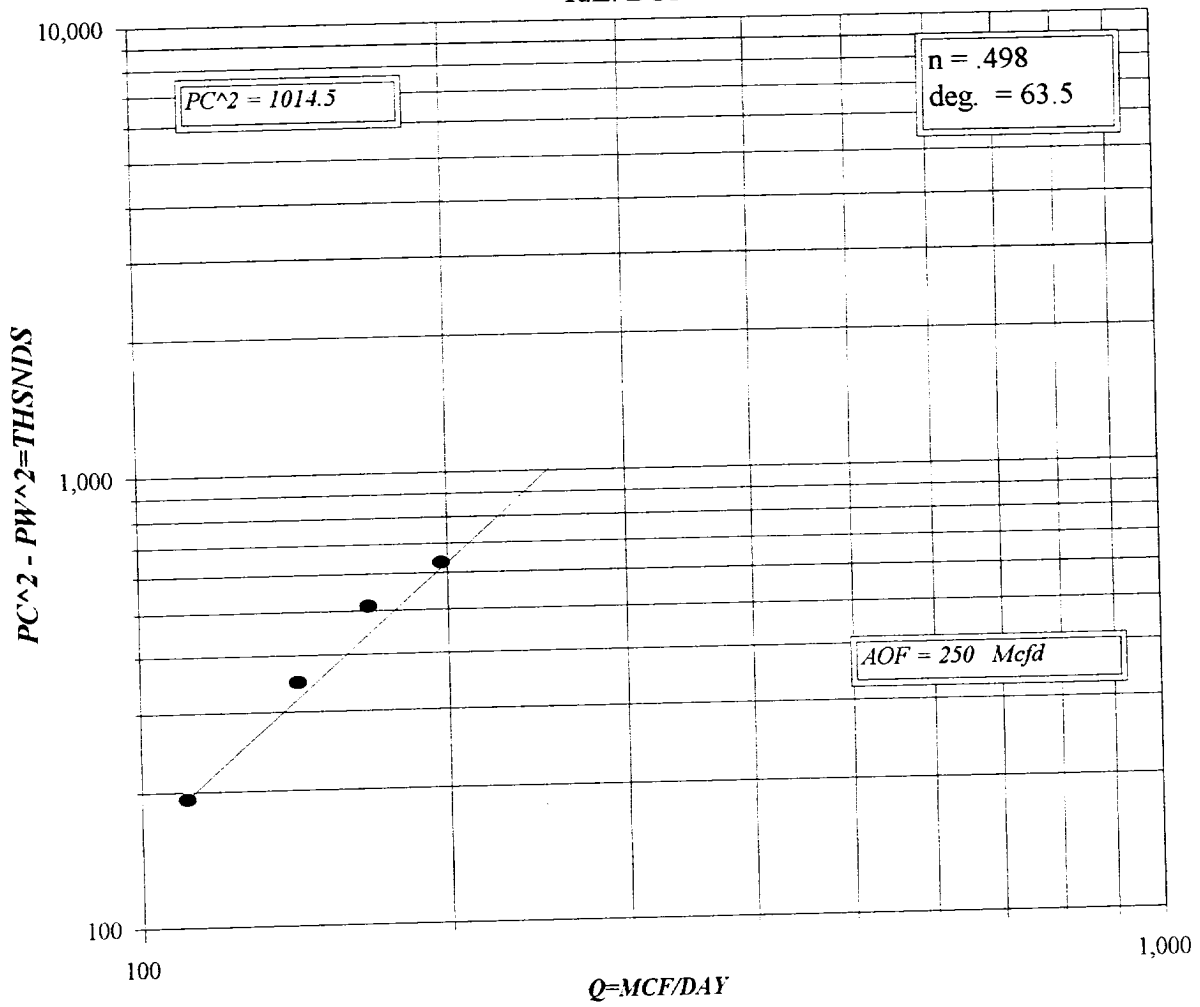
State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator YATES PET.					Lease or Unit Name R.L.BURNS				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9/6/02		Well No. 1		
Completion Date		Total Depth		Plug Back TD 12140		Elevation		Unit Ltr - Sec - TWP - Rge 22 15 35	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At	Perforations: From: 12004 To: 12050				County LEA	
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 11700	Perforations: From: To:				Pool	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE					Packer Set At 11700		Formation		
Producing Thru Tubing		Reservoir Temp. °F 187		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		Connection SALES	
L 11700	H 11700	Gg 0.823	%CO ₂ 10.652	%N ₂ 1.389	%H ₂ S N/A	Prover N/A	Meter Run 4.026	Taps FLG	
FLOW DATA					TUBING DATA			CASING DATA	
No.	Prover Line Size	Orifice Size	Press p.s.i.g.	Diff. h _w	Temp. °F	Press p.s.i.g.	Temp. °F	Press p.s.i.g.	Temp. °F
SI						994	N/A	PKR	N/A
1	4.026 X 1.375		216	0.5	97	893			1 HR
2	4.026 X 1.375		148	1.2	99	802			1 HR
3	4.026 X 1.375		105	2.2	100	696			1 HR
4	4.026 X 1.375		101	3.4	97	603			1 HR
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									111
2									143
3	TOTAL		FLOW	METER					168
4									198
5									
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A Mcf bbl.				
1					A.P. I. Gravity of Liquid Hydrocarbons N/A Deg.				
2					Specific Gravity Separator Gas 0.823 XXXXXXXX				
3	TOTAL	FLOW	METER		Specific Gravity Flowing Fluid N/A XXXXXX				
4					Critical Pressure 622 P.S.I.A. P.S.I.A.				
5					Critical Temperature 411 R. R.				
P _c 1007.2 P _{c2} 1014.5									
No.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.599}{\quad} (2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.264}{\quad}$				
1		906.3	821.3	193.2	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{250}{\quad}$				
2		815.4	664.8	349.7					
3		709.5	503.3	511.2					
4		616.6	380.2	634.3					
5									
Absolute Open Flow		250		Mcf/d @ 15.025		Angle of Slope (°): 63.5		Slope n: 0.498	
Remarks: * NO LIQUID MADE DURING TEST.									
Approved By Division:			Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER			Checked By: MB	

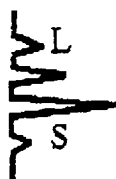
YATES PET.
R.L. BURNS #1



COMPANY	YATES PET.	LEASE	R.L.BURNS	WELL	1	1			Pc =	1007.2	Pc2 =	1014.5	"
UNIT		SECTION	22	TOWNSHIP	15				Pt2 =	821.2	Pw =	906.3	"
L	11700	H	11700	L/H	0.823					664.6		815.4	"
%CO2	10.652	%N2	1.389	H2S		DATE	01/00/00			503.0		709.5	"
d	2.441	Fr	0.010763	GH	8197.0	RANGE	35			379.7		616.6	"
=====													
VOL 1	111	PSIA 1	906.2	RESV TEMP	187.0				Pc2-Pw2=	193.2	Pw2 =	821.3	"
VOL 2	143	PSIA 2	815.2							349.7		664.8	"
VOL 3	168	PSIA 3	709.2	SHUT-IN PREI =	1007.2					511.2		503.3	"
VOL 4	198	PSIA 4	616.2							634.3		380.2	"
=====													
										n =	0.498		"
										Pc2/(Pc2-Pw2) =	5.252		"
											2.901		"
											1.985		"
											1.599		"
										[Pc2/Pc2-Pw2]n =	2.284		"
											1.700		"
											1.407		"
											1.264		"
										AOQ = Q	0.254		"
											0.243		"
											0.236		"
											0.250		"
=====													
LINE	RATE 1		RATE 2		RATE 3		RATE 4						
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND					
1 QM	0.111	0.111	0.143	0.143	0.168	0.168	0.198	0.198					
2 TW	534	534	534	534	534	534	534	534					
3 Ts	647.0	647.0	647.0	647.0	647.0	647.0	647.0	647.0					
4 T	590.5	590.5	590.5	590.5	590.5	590.5	590.5	590.5					
PR (est)	1.46		1.31		1.14		0.99						
5 Z(est)	0.817	0.791	0.832	0.808	0.849	0.828	0.866	0.847					
6 TZ	482.4	467.0	491.1	476.9	501.6	489.0	511.1	500.1					
7 GH/TZ	16.993	17.552	16.691	17.189	16.341	16.762	16.038	16.391					
8 eS	1.891	1.931	1.870	1.905	1.846	1.875	1.825	1.849					
9 l-e-S	0.471	0.482	0.465	0.475	0.458	0.467	0.452	0.459					
10 Pt	906.2	906.2	815.2	815.2	709.2	709.2	616.2	616.2					
11 Pt2/1000	821.2	821.2	664.6	664.6	503.0	503.0	379.7	379.7					
12 Fr	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763					
13 Fc=Fr/TZ	5.192	5.026	5.286	5.133	5.399	5.263	5.501	5.382					
14 FcQm	0.58	0.56	0.76	0.73	0.91	0.88	1.09	1.07					
15 L/H(FcQm)2	0.3	0.3	0.6	0.5	0.8	0.8	1.2	1.1					
16 Fw	0.1565028	0.1501084	0.2657979	0.2559571	0.3769223	0.3648749	0.5361774	0.52151233					
17 Pw2	821.4	821.3	664.8	664.8	503.3	503.3	380.2	380.2					
18 Ps2	1553.4	1586.3	1243.2	1266.6	928.9	943.7	693.8	703.1					
19 Ps	1246.4	1259.5	1115.0	1125.4	963.8	971.4	833.0	838.5					
20 P	1076.3	1082.8	965.1	970.3	836.5	840.3	724.6	727.3					
21 Pr	1.73	1.74	1.55	1.56	1.34	1.35	1.16	1.17					
22 Tr	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44					
23 Z	0.791	0.790	0.808	0.807	0.828	0.828	0.847	0.846					
=====													

FORM C122-D

101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100

**Laboratory Services, Inc.**

4016 Fiesta Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Pro Well Testing & Wireline
P. O. Box 791
Hobbs, New Mexico 88241

SAMPLE:
IDENTIFICATION: R. L. Burns #1
COMPANY: Yates Petroleum
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 9/6/02 12:00 pm
ANALYSIS DATE: 9/6/02
PRESSURE - PSIG 150
SAMPLE TEMP. °F 90
ATMOS. TEMP. °F 90

GAS (XX) LIQUID ()
SAMPLED BY: J. Rice
ANALYSIS BY: Vickie Biggs

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H ₂ S)		
Nitrogen (N ₂)	1.389	
Carbon Dioxide (CO ₂)	10.656	
Methane (C ₁)	71.185	
Ethane (C ₂)	7.786	2.077
Propane (C ₃)	4.695	1.291
I-Butane (C ₄)	0.743	0.243
N-Butane (NC ₄)	1.563	0.492
I-Pentane (C ₅)	0.451	0.165
N-Pentane (NC ₅)	0.398	0.144
Hexane Plus (C ₆ +) <u>1.134</u>		<u>0.492</u>
	100.000	4.904

BTU/CU.FT. - DRY 1138
AT 14.650 DRY 1134
AT 14.650 WET 1115
AT 14.73 DRY 1141
AT 14.73 WET 1121

MOLECULAR WT. 23.9102

SPECIFIC GRAVITY -
CALCULATED 0.823
MEASURED

