

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2004

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other

b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,  
Other:

2. Name of Operator  
Yates Petroleum Corporation

3. Address 105 S. 4th Str., Artesia, NM 88210 3a. Phone No. (include area code) 505-748-1471

4. Location of Well (Report location clearly and in accordance with Federal requirements)  
At Surface 1650'FNL & 660'FEL (Unit H, SENE)  
At top prod. Interval reported below Same as above  
At total depth Same as above

5. Lease Serial No. NM-20346

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No. Charlie ZA Federal #2

9. API Well No. 30-005-63499

10. Field and Pool, or Exploratory Pecos Slope Abo

11. Sec., T., R., M., on Block and Survey or Area Section 22-T8S-R26E

12. County or Parish 13. State Chaves New Mexico

14. Date Spudded RH 6/6/03 RT 6/8/03 15. Date T.D. Reached 6/27/03 16. Date Completed 8/28/03 ☐ D & A ☒ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\* 3825'GL 3839'KB

18. Total Depth: MD 6374' TVD NA 19. Plug Back T.D.: MD 5880' TVD NA 20. Depth Bridge Plug Set: MD 6250' TVD NA

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
CNL, Azimuthal Laterolog, Borehole Compensated Sonic

22. Was Well cored? ☒ No ☐ Yes (Submit analysis)  
Was DST run? ☒ No ☐ Yes (Submit report)  
Directional Survey? ☒ No ☐ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	State Cementer Depth	No. of Sks & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
16"	Cond.		Surface	80'					
12-1/4"	8-5/8"	24#	Surface	1000'		600 sx		Surface	
7-7/8"	4-1/2"	11.6#	Surface	6374'		750 sx		3410'CBL	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-3/8"	4370'	4370'						

25. Producing Intervals

Formation	Top	Bottom
A) Abo	4460'	4842'
B)		
C)		
D)		

26. Perforation Record

Perforated Interval	Size	No. Holes	Perf. Status
See Attached Sheet			

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
See Attached Sheet	

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
8/29/03	9/7/03	24	⇒	0	161	0	NA	NA	Flowing
Choke Size	Tbg. Press. Flwg.	Csg. Press. Packer	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
14/64"	215 psi		⇒	0	161	0	NA	Producing	

28a. Production-Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			⇒						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
SI			⇒						

## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production ⇒	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate ⇒	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production ⇒	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate ⇒	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

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

Sold

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

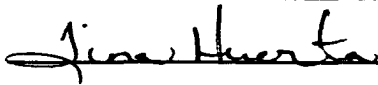
Formation	Top	Bottom	Description, Contents, etc.	Name	Top Meas Depth
				Seven Rivers	221'
				Queen	568'
				Penrose	668'
				San Andres	1055'
				Glorieta	2145'
				Yeso	2260'
				Tubb	3713'
				Abo	4436'
				Wolfcamp	5142'
				Wolfcamp B Zone	5235'
				Spear	5480'
				Cisco	5718'
				Dorothy	5820'
				Strawn	5842'
				Mississippian	6070'
				Siluro-Devonian	6256'

## 32. Additional remarks (include plugging procedure):

## 33. Circle enclosed attachments:

- ☒ 1. Electrical/Mechanical Logs (1 full set req'd.)      2. Geologic Report      3. DST Report      4. Directional Survey  
☐ 5. Sundry Notice for plugging and cement verification      6. Core Analysis      ☒ 7. Other: Deviation Survey

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name(please print) Tina Huerta      Title Regulatory Compliance Supervisor  
 Signature       Date September 24, 2003

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

YATES PETROLEUM CORPORATION  
 Charlie ZA Federal #2  
 Section 22-T8S-R26E

**Form 3160-4 continued:**

26. Perforation Record

Perforated Interval	Size	No. Holes	Perf. Status
6274'-6280'	.42"	24	Under CIBP
5918'-5948'	.42"	120 total holes	Under composite
5952'-5980'	.42"		Under composite
4460'-4470'	.42"		Producing
4486'-4496'	.42"		Producing
4536'-4542'	.42"		Producing
4546'-4550'	.42"		Producing
4596'-4602'	.42"		Producing
4606'-4612'	.42"		Producing
4616'-4628'	.42"		Producing
4634'-4638'	.42"		Producing
4740'-4746'	.42"		Producing
4798'-4812'	.42"		Producing
4836'-4842'	.42"	95 total holes	Producing

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
6274'-6280'	Acidize w/1000g 20% IC HCL
5918'-5980'	Acidize w/3000g 7-1/2% IC HCL + balls
	Frac w/85,000g 65Q CO2 foamed 35# x-linked gelled 7% KCL water carrying 5000# 100 mesh + 120,000# 20/40 ottawa sand
4460'-4842'	Frac w/107,000g 55Q CO2 foamed 35# x-linked gelled 7% KCL water carrying 250,000# 16/30 Brady sand + 2000g 7-1/2% HCL

OPERATOR: YATES PETROLEUM CORP.  
WELL/LEASE: CHARLIE ZA FED. 2  
COUNTY: CHAVES

495-5060

STATE OF NEW MEXICO  
DEVIATION REPORT

242	3/4
714	1
1,000	1/4
1,479	3/4
1,941	1/2
2,437	3/4
2,685	1
2,935	2
3,060	1 3/4
3,308	1 1/4
3,555	1
3,806	1/2
4,050	2
4,173	2 1/2
4,296	1
4,419	1 1/2
4,543	2
4,700	1
4,825	1
5,013	1
5,138	2
5,390	1 1/2
5,514	3/4
5,638	3/4
5,763	1 1/4
5,886	3/4
6,010	1/2
6,133	3/4
6,267	1 1/2
6,313	1 3/4



By: Steve Moore

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 1st day of July, 2003, by Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.

Joni D. Hodges  
Notary Public for Midland County, Texas

My Commission Expires: 4/08/2007

