

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons-DIV-Dist. 2

1301 W. Grand Avenue

Artesia, NM 88210

FORM APPROVED
OMB NO. 1004-0137
Expires: November 30, 2000

CLSI

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NM-14847

- 1a. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Dry Other
- b. Type of Completion: ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resrv.,
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.

Empire Deep "29" Fed. #2

9. API Well No.

30-015-32252

10. Field and Pool, or Exploratory

Empire S Empire Morrow

11. Sec., T., R., M. on Block and
Survey or Area 29, 17S, 29E

12. County or Parish

Eddy County

13. State

NM

17. Elevations (DF, RKB, RT, GL)*

3,605' GL

2. Name of Operator

Southwestern Energy Production Company

3. Address 2350 N. Sam Houston Pkwy. E.,
Suite 300, Houston, TX 77032

3a. Phone No. (include area code)

281-618-4739

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface 660' FSL, 660' FWL of Sec 29, T17S, R29E

At top prod. interval reported below 660' FSL, 660' FWL of Sec 29, T17S, R29E

At total depth 660' FSL, 660' FWL of Sec 29, T17S, R29E

14. Date Spudded

03/28/02

15. Date T.D. Reached

04/26/02

16. Date Completed

☐ D & A ☒ Ready to Prod.18. Total Depth: MD 11,000'
TVD N/A19. Plug Back T.D.: MD 10,485'
TVD N/A20. Depth Bridge Plug Set: MD 10,520' & 10,780'
TVD N/A

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

Gamma Ray, Neutron, Density, Dual, Micro

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)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
24	20'	Cond		40'		Ready Mix			
17.5	13.375'	48#		446'		491 sx C1	115	Circ	
12.25	9.625'	40#		3,000'		1025 sx C1	242	Circ	
8.75	5.5'	17#		11,000'		1905 sx C1	371	3,600'	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375'	10,055'	10,036'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Morrow	10,824	10,830	10,824-10,830		24	Plugged Back
B) Atoka	10,562	10,568	10,562-10,568		24	Plugged Back
C) Strawn	10,124	10,142	10,124-10,142'		72	Open
D)						

ACCEPTED FOR RECORD

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

Depth Interval	Amount and Type of Material
10,124-10,142'	2,000 gallons NEFE and CO2

JUN 21 2002

LES BABYAK
PETROLEUM ENGINEER

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
05/16	05/17	24	→	0	28	0	N/A	N/A	Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
16	4	0	→	0	28	0	N/A	Plugged with CIBP and 35' cement at 10,780-10,745	

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
05/22	05/23	24	→	0	38	0	N/A	N/A	Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
16	11	0	→	0	38	0	N/A	Plugged with CIBP and 35' cement at 10,520-10,485'	

28b. Production - Interval C

Date First Produced 05/30	Test Date 06/01	Hours Tested 48	Test Production →	Oil BBL 6	Gas as MCF 624	Water BBL 2	Oil Gravity Corr. API 56.7	Gas Gravity .73	Production Method Flowing
Choke Size 24	Tbg. Press. Flwg. SI 155	Csg. Press. 0	24 Hr. Rate →	Oil BBL 6	Gas MCF 624	Water BBL 2	Gas : Oil Ratio 104000	Well Status W/O Production equip and pipeline.	

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.)

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	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
L. Morrow	10820	10830	Tight sand w/ gas show	Strawn	9990
Atoka	10560	10570	Tight sand w/ gas show	Atoka	10204
Strawn	10120	10250	Limestone w/ gas show	Morrow Clastics	10630
Abo	6798	6870	Limestone w/ oil show	L. Morrow	10780
Yeso	435	6088	No mud log	T. Miss	10913

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:

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) Yonnie J. CerminTitle Production AnalystSignature Yonnie J. CerminDate 06/13/02

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.