

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTNew Mexico Oil Conservation Division, District I
1625 N. French Drive
Hobbs, NM 88240
FORM APPROVED
NO. 1004-0137
Expires March 31, 2007

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other				5. Lease Serial No. NMNM106916					
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr., Other _____				6. If Indian, Allottee or Tribe Name					
2. Name of Operator Echo Production, Inc.				7. Unit or CA Agreement Name and No.					
3. Address PO Box 1210, Graham, TX 76450				8. Lease Name and Well No. East Livingston 31 Federal #3					
3a. Phone No. (include area code) (940) 549-3292				9. AFI Well No. 30-025-36656 0051					
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 1810' FSL & 330' FEL At top prod. interval reported below 1810' FSL & 330' FEL At total depth 1810' FSL & 330' FEL				10. Field and Pool, or Exploratory Livingston Ridge; Delaware SE					
14. Date Spudded 8/30/04				15. Date T.D. Reached 9/15/04		16. Date Completed ☐ D & A ☒ Ready to Prod.		11. Sec., T., R., M., on Block and Survey or Area Sec 31 T22S R32E	
18. Total Depth: MD 8850 TVD 8850				19. Plug Back T.D.: MD 8777 TVD 8777		20. Depth Bridge Plug Set: MD ---- TVD ----		12. County or Parish Lea	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) Schlumberger Platform Express, GRC/CBL				22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit report) Directional Survey? ☒ No ☐ Yes (Submit copy)		13. State NM		17. Elevations (DF, RKB, RT, GL)* 3530' GL	
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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17 1/2	13 3/8 H-40	48#	0	802	----	525 Poz 'C'	234	surface	----
11	8 5/8 J&N	32#	0	4595	----	1350 Poz 'C'	552	surface	----
7 7/8	5 1/2 J	17#	0	8840	----	775 Poz H	176	5500'	----
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 7/8	6800	----							
25. Producing Intervals									
Formation		Top	Bottom	Perforated Interval		Size	No. Holes	Perf. Status	
A) Delaware				6931-8378		3/8	76	open	
B)									
C)									
D)									
26. Perforation Record									
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval		Amount and Type of Material							
6931-7136		Acidize w/ 3250 gals 7 1/2%; Frac w/35000 gals & 92000#							
8342-8412		Acidize w/2000 gals 7 1/2%; Frac w/26000 gals & 60000#							
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
	10/11/04	24	→	35	45	782	38.3	.881	pump
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
---	SI 40	40	→	35	45	782	1285	active	
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	SI		→						

*(See instructions and spaces for additional data on page 2)

DAVID R. GLASS
PETROLEUM ENGINEER

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	Descriptions, Contents, etc.	Name	Top Meas. Depth
Bell Canyon	4608	5620	sat. water - sand & shale	Rustler	800
Cherry Canyon	5620	6625	sat. water - sand & shale	Base of salt	4300
Brushy Canyon	6625	6958	oil, gas, water-sandstone	Lamar	4560
	7030	7070	oil, gas, water-sandstone	Bell Canyon	4608
	7108	7140	oil, gas, water-sandstone	Cherry Canyon	5620
	8250	8412	oil, gas, water-sandstone	Brushy Canyon	6625
				Bone Springs	8460

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
☐ Sundry Notice for plugging and cement verification
☐ Core Analysis
☐ 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) Tom Golden

Title Operations Manager

Signature

Tom Golden

Date

11/22/04

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.