Form 3160-4
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: March 31, 2007

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. **NMNM-101552**

1a. Type of Well ☐ Oil Well ☑ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name **NA**

7. Unit or CA Agreement Name and No. **NA**

2. Name of Operator **Lance Oil & Gas Company, Inc.**

8. Lease Name and Well No. **WF Federal 12 #2**

3. Address **P. O. Box 70, Kirtland, NM 87417**

3a. Phone No. *(include area code)* **505-509-5601**

9. API Well No. **30-045-30712**

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**
At surface **1815' FSL - 828' FWL**
At top prod. interval reported below
At total depth **Same**

10. Field and Pool, or Exploratory **Harper Hill PC Ext.**

11. Sec., T., R., M., on Block and Survey or Area **12-30N-14W**

12. County or Parish **San Juan** 13. State **NM**

14. Date Spudded **09/17/2001**
15. Date T.D. Reached **09/20/2001**
16. Date Completed ☐ D & A ☑ Ready to Prod. **12/03/2004**
17. Elevations (DF, RKB, RT, GL)* **5948' ungraded**

18. Total Depth: MD **1850'** TVD
19. Plug Back T.D.: MD **1772'** TVD
20. Depth Bridge Plug Set: MD **1630'** TVD

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

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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
8-3/4"	7" K-55	20#	Surf	135'		30 sx Class B	6.3 bbls	Surface	Cmt to surf
6- 1/4"	4-1/2J55	10.5#	Surface	1816"		95 sx Class B	19.96 bbls		
						205 sxClassB	43.08 bbls	Surface	Circ 10 bbls

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"	1475'							

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) **Lower Pictured Cliffs**	1688'	1737'	1737,1735,1734,1718,1717	.34	5 holes	Open
B)			1716,1702,1701,1700,1699	.34	5 holes	Open
C)			1691,1690,1689,1688	.34	4 holes	Open
D) **Upper Pictured Cliffs**	1504'	1587'	1587-1583',1580-1578,	.41	19 holes	Open - see page 2

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

Depth Interval	Amount and Type of Material
1652-1737'	516 gal 15% HCl, 28,038 gals pre-pad, 181,700# 20/40 brady sand flushed with 1,086 gals 2% Kcl max
	pressure 2954 psi @ 40 bpm. Final frac gradient .81 psi/ft
1504-1587'	475 gals 15% HCl, 49,261 gal gelled fluid, 80,000# Arizona 40/70, Brady 20/40 & Brady 16/30 sands. Average
	3142 psi @ 40 bpm. Final frac gradient 1.89 psi/ft.

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
									No Test Sundry to follow

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
								SI : WOPL

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
									No Test

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
								SI: WOPL

ACCEPTED FOR RECORD
JAN 05 2005
FARMINGTON FIELD OFFICE
BY

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

NMOCD

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.)*

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
Fruitland Coal	**1652"**	**1686'**			
Pictured Cliffs	**1504'**	**1589'**			
Pictured Cliffs	**1684'**	**1736'**			

32. Additional remarks (include plugging procedure):

Additonal Perforated Intervals:

Upper Pictured Cliffs (continued) **1538-1535', 1506-1504' - fourteen .41" holes**

33. Indicate which itmes 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)* **Jo Becksted** Title **Compliance Administrator**

Signature Jo Becksted Date **12/21/2004**

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.