

Form 3160-4  
(April 2004)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: March 31, 2007

## 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 AMENDED REPORT

2. Name of Operator **Lance Oil & Gas Company, Inc.**3. Address **P.O. Box 70, Kirtland NM**3a. Phone No. (include area code)  
**505-598-5601**

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

At surface **720' FNL and 350' FEL, Section 20, T29N, R14W**

At top prod. interval reported below

At total depth

14. Date Spudded  
**09/05/1960**15. Date T.D. Reached  
**09/15/1960**16. Date Completed **01/12/2007**  
☐ D & A ☒ Ready to Prod.17. Elevations (DF, RKB, RT, GL)\*  
**5198' GL**18. Total Depth: MD  
TVD19. Plug Back T.D.: MD **834' KB**  
TVD20. Depth Bridge Plug Set: MD  
TVD

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

**Neutron and induction**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
11"	8.625"	22.7	surface	217'	primary	200 sxs.		surface	NA
7.875"	5.5	15.5	surface	881'	lead	70 sxs.	27.7	surface	NA
					tail	90 sxs.	32.0	surface	NA
7.875"	5.5	14	895'	4832'		175 sxs.		surface	895'

## 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"	600'							

## 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Basal Fruitland coal	543' KB	564' KB	543' - 562' KB	0.42"	4 SPF	Open
B)						
C)						
D)						

## 26. Perforation Record

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

Depth Interval	Amount and Type of Material
543' - 562' KB	1200 gallons 15% HCl. 54,475 gallons of 20# Delta 140 Cross-linked Gel w/Sand Wedge NT containing 150,000 pounds 16/30 mesh Ottawa Sand.

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

## 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. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

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

ACCEPTED FOR RECORD

JAN 24 2007

FARMINGTON FIELD OFFICE

NMCCD

## 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
				Ojo Alamo Kirtland Fruitland Middle Fruitland Coal Basal Fruitland Coal Picture Cliffs Sandstone Lewis Shale	566' KB

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) Tod H. HaanesTitle Production Engineer

Signature

Tod H. Haanes

Date

01/19/2007

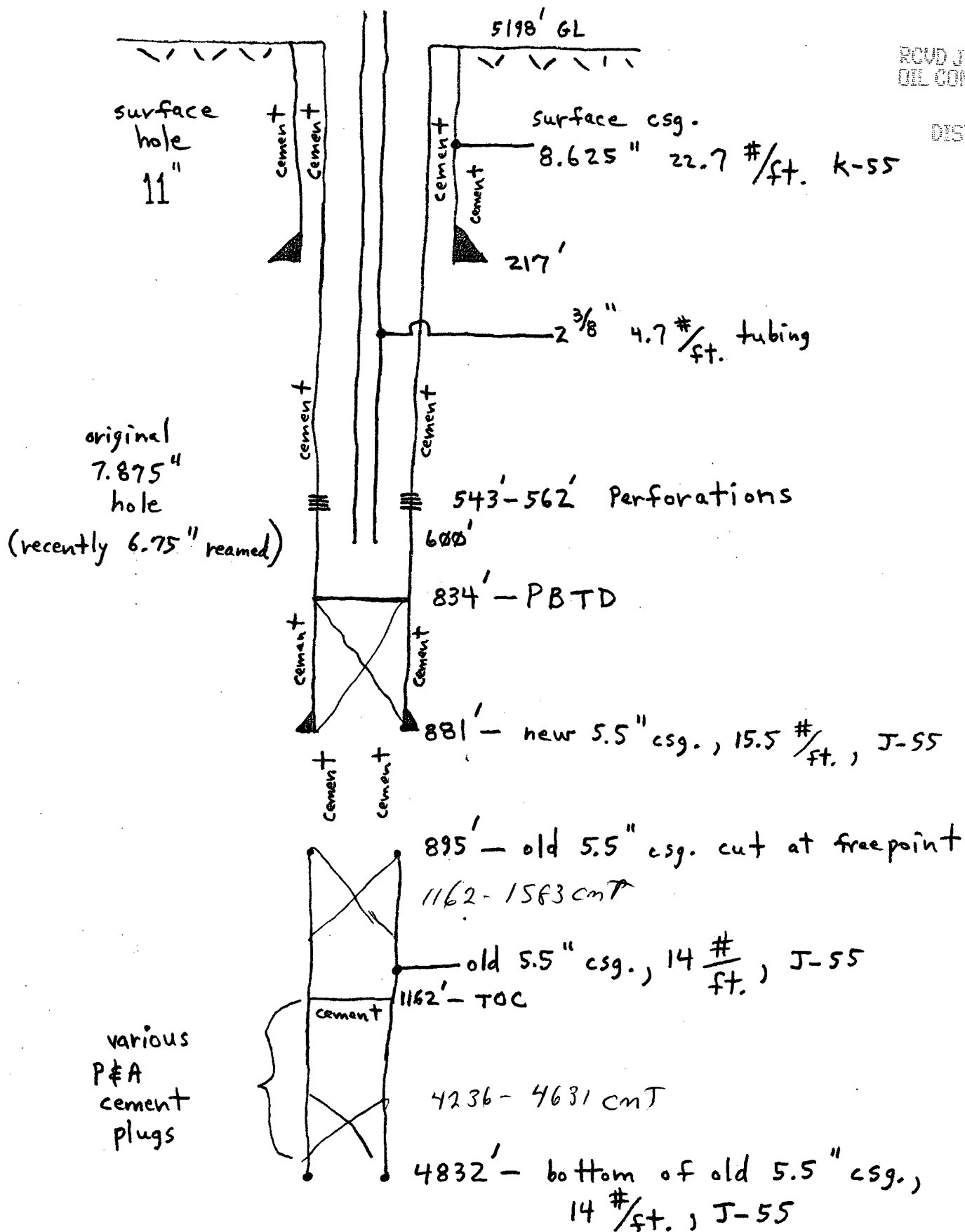
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

# Well schematic for the NW Cha Cha # 11

THH  
1/19/2007

RCVD JANBOYO  
OIL CONS. DIV.

DIST. 3



**Sharp, Karen, EMNRD**

**From:** Haanes, Tod [Tod.Haanes@anadarko.com]  
**To:** Sharp, Karen, EMNRD  
**Cc:** margie\_dupre@blm.gov; Johnson, Sharon  
**Subject:** RE: NW Cha Cha #11  
**Attachments:**

**Sent:** Wed 1/17/2007 4:40 PM

Hello Karen,

This well is more complicated than most completions. Recently the NW Cha Cha #11 was plugged back with a cement plug to 1162' KB. The top of cement (TOC) was checked by resting a tubing string on top of the cement after it had hardened sufficiently. The old casing was probably in poor shape due to age and a somewhat corrosive environment, so it was decided to replace the old casing with new casing. Beginning at the old casing free-point, this 5-1/2" casing was extracted from the well bore. New 5-1/2" casing was run into the old well bore and was landed at 886' KB. Next, 160 sacks of cement was pumped down the new casing through the float collar, through the shoe area, and up the annulus between the formation and the outside of the new 5-1/2" casing. This was a good cement job because five barrels of cement circulated to the surface. After the cement had time to cure, 19 feet (543'-562' KB) of the Basal Fruitland Coal was perforated. These perforations were then acidized with 1,200 gallons of 15% hydrochloric acid. After allowing the acid 15 minutes to dissolve the cement from around the perforations, the spent acid was then swabbed from the well bore. On 1/12/2007, this zone was fraced with 54,475 gallons of Gel and 150,000 pounds of 16/30 mesh Ottawa Sand.

This is an atypical well because we installed new casing into an old well bore. We did not drill a new hole. The old hole was utilized instead.

Hope this helps. Please feel free to call me if you have further questions. Thank you.

Regards,

Tod H. Haanes

505-598-5601, ext. 5564

**From:** Sharp, Karen, EMNRD [mailto:karen.sharp@state.nm.us]  
**Sent:** Wednesday, January 17, 2007 3:09 PM  
**To:** Haanes, Tod  
**Subject:** NW Cha Cha #11