

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		2004 OCT 27 PM 9 18							
b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., Other _____		RECEIVED							
2. Name of Operator Richardson Operating Company		OTO FARMINGTON							
3. Address 3100 La Plata Highway, Farmington, NM 87401		3a. Phone No. (include area code) 505-564-3100							
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 1780' FNL & 1155' FWL Sec. 24 T28N - R8W At top prod. interval reported below At total depth		10/15/2004							
14. Date Spudded 08/12/2004		15. Date T.D. Reached 08/18/2004							
16. Date Completed 10/15/2004 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.		17. Elevations (DF, RKB, RT, GL)*							
18. Total Depth: MD 2938' TVD		19. Plug Back T.D.: MD 2907' TVD							
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) Compensated Neutron Log							
22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> 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
8 3/4"	7" H-40	17#	-1' GL	308'		114sx Class B	24 bbl	Surface	Circ. 14 bbl
6 1/4"	4.5" J-55	11.6#	+1' GL	2934'		225sx Class B	115 bbl		
						100sx Class B	21 bbl	Surface	Circ. 32 bbl
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"	2870'								
25. Producing Intervals									
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status			
A) Basin Fruitland Coal	2633'	2836'	2663'; 2703'; 2706'-2711'	0.38"	14; 2spf	Open			
B)			2715'; 2719-2730'; 2737'	0.38"	52; 2spf, 4spf	Open			
C)			2741'-2743'; 2757'-2760'	0.38"	10; 2spf	Open			
D)			continued on page 2						
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval		Amount and Type of Material							
2663'-2833'		1st Stage: Spearhead w/ 1000gal 15% HCl. Frac with 48134gal gelled fluid, 81594# 20/40 sand, 787413scf N2, all in five stages. Flush w/ 1792 gal AquaSafe X20/70Q N2 Foam. 2nd Stage: Spearhead w/ 500gal 15% HCl. Frac w/ 30959gal gelled fluid, 26398# 20/40 sand, 798695scf N2, all in five stages. Flush w/ 1540gal AquaSafe L20 60Q N2 Foam.							
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
			→						Sundry of tests 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
			→						ACCEPTED FOR RECORD
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
			→						OCT 28 2004
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	FARMINGTON FIELD OFFICE
			→						BY <i>JB</i>

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

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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	2633'	2836'		Perfs cont. <table border="0"> <tr> <td>Perforated Interval</td> <td>Size</td> <td>#of holes</td> <td>Perf Status</td> </tr> <tr> <td>2774'-2776'</td> <td>0.38"</td> <td>4; 2spf</td> <td>Open</td> </tr> <tr> <td>2789'</td> <td>0.38"</td> <td>1; 1 spf</td> <td>Open</td> </tr> <tr> <td>2812'-2825'</td> <td>0.38"</td> <td>13; 1 spf</td> <td>Open</td> </tr> <tr> <td>2832'</td> <td>0.38"</td> <td>1; 1 spf</td> <td>Open</td> </tr> <tr> <td>2833'</td> <td>0.38"</td> <td>1; 1 spf</td> <td>Open</td> </tr> </table>	Perforated Interval	Size	#of holes	Perf Status	2774'-2776'	0.38"	4; 2spf	Open	2789'	0.38"	1; 1 spf	Open	2812'-2825'	0.38"	13; 1 spf	Open	2832'	0.38"	1; 1 spf	Open	2833'	0.38"	1; 1 spf	Open	
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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) Charles H. Williams

Title Engineering Operations Manager

Signature

Charles H. Williams

Date

10/26/2004

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.