

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other

b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.  
Other \_\_\_\_\_

2. Name of Operator

Robert L. Bayless, Producer LLC

3. Address

PO Box 168, Farmington, NM 87499

3a. Phone No. (include area code)

(505) 326-2659

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

At Surface 2507' FSL & 664' FEL

At top prod. interval reported below

At total depth

Same

5. Lease Serial No.

NM 05791

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.

Graham C #10G

9. API Well No.

30-045-33287

10. Field and Pool, or Exploratory

Basin Fruitland Coal

11. Sec., T., R., M., on Block and Survey or Area

Sec 9, T27N, R8W

12. County or Parish

San Juan

13. State

NM

14. Date Spudded

1/11/2006

15. Date T.D. Reached

1/17/2006

16. Date Completed

☐ D&A

☒ Ready to Prod.

2/16/2006

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

6028 GL

18. Total Depth: MD

2320

TVD

19. Plug Back T.D.: MD

2264

TVD

20. Depth Bridge Plug Set: MD

None

TVD

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

Cased Hole Neutron - Gas Spectrum Log

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
8 3/4	7" / J55	20	Surface	134	None	80 sx-Class B 3% CaCl	16.8	surface	None
6 1/4	4 1/2" / J55	10.5	Surface	2316	None	300 sx-Premium Lite High Strength Class B	114.9	surface	None

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"	2206	None						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Fruitland Coal	2129	2209	2129 - 2147	.34"	54	
B)			2168 - 2182	.34"	42	
C)			2192 - 2209	.34"	51	
D)						

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

Depth Interval	Amount and Type of Material
2129 - 2182	1500 Gal 15% HCl Acid, 61,000 Gal Silver Stim LT X-Link Gelled Water, 140,000 lbs. 20/40 Mesh Sand
2192 - 2209	1500 Gal 15% HCl Acid, 90,500 Gal Silver Stim LT X-Link Gelled Water, 103,500 lbs. 20/40 Mesh Sand

28a. 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
2/16/2006	2/16/2006	3	→		No Flow				Flow
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
3/4"	SI 0	135	→		No Flow			Shutin	

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	
			→						

(See instructions and spaces for additional data on reverse side)

NMOCD

FARMINGTON FIELD OFFICE  
BY 

MAR 01 2006

## 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.)

Shut-in, waiting on pipeline connection

## 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	1992	2218	Coal, sandstone, natural gas	Ojo Alamo	1326
Pictured Cliffs	2218	2320	Sandstone, natural gas	Kirtland	1460
				Fruitland	1992
				Pictured Cliffs	2218

## 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 Notices 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)\*

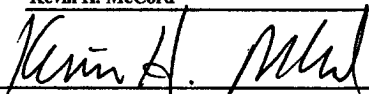
Name (please print)

Kevin H. McCord

Title

Petroleum Engineer

Signature



Date

2/17/06

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.

**ROBERT L. BAYLESS, PRODUCER LLC**

**GRAHAM C #10G**

2507 FSL & 644 FEL (NESE)  
SECTION 9, T27N, R8W  
SAN JUAN COUNTY, NEW MEXICO

**COMPLETION REPORT**

- 1/23/06 Installed frac valve on casing. Pressure tested frac valve and casing to 3500 psi, held OK.
- 1/24/06 Rigged up Blue Jet Wireline Service. Run GR-CLL-CNL (no open hole log) from PBTD of 2264 ft to 1300 ft. Picked perforation intervals. Shut down for the night.
- 1/25/06 Rigged up Blue Jet Wireline Service. Perforated the basal Fruitland Coal interval with 3 1/8" casing gun at 3 JSPF as follows:

2192 - 2209      17 ft      51 holes      .34" diameter

Rigged up Halliburton. Broke down perforations immediately. Pumped 500 gals of 15% HCl acid, then fracture stimulated the Basal Fruitland Coal interval with 26,000 gallons of 15 vis Silver Stim LT with Sandwedge X-linked gel system containing 9,500 lbs of 20/40 sand as follows:

5,000 gals of 15 vis Silver Stim LT pad	31 bpm @ 1200 psi
2,000 gals of 15 vis Silver Stim LT w/1/2 ppg sand	31 bpm @ 1300 psi
3,000 gals of 15 vis Silver Stim LT pad	31 bpm @ 1500 psi
2,000 gals of 15 vis Silver Stim LT w/1/2 ppg sand	40 bpm @ 1700 psi
3,000 gals of 15 vis Silver Stim LT pad	40 bpm @ 1900 psi
7,500 gals of 15 vis Silver Stim LT w/1 ppg sand	40 bpm @ 2000-3500 psi*
3,500 gals of 15 vis Silver Stim LT flush-overflush	30 bpm @ 3500 psi**

\* - Cut sand due to well screen out to 3500 psi during this stage.

\*\* - Overflushed well to attempt another fracture stimulation try

Initial shut in pressure was 2700 psi, decreasing to 0 psi after 20 minutes. Fracture stimulated the Basal Fruitland Coal for a second try with 16,500 gallons of 15 vis Silver Stim LT with Sandwedge X-linked gel system containing 7,500 lbs of 20/40 sand as follows:

10,000 gals of 15 vis Silver Stim LT pad containing 2 - 2000 gals stages of 1/2 ppg sand slugs	24 bpm @ 3450 psi
5,500 gals of 15 vis Silver Stim LT w/1 ppg sand	20 bpm @ 3800 psi*
1,000 gals of 15 vis Silver Stim LT flush	10 bpm @ 4000 psi**

\* – Cut sand due to well screen out to 4000 psi during this stage.

\*\* – Flushed well as much as possible until total screenout at 4000 psi max pressure.

Total fluid pumped was approximately 1050 bbls. Total sand pumped was approximately 17,000 lbs. Will move in rig to clean out sand and fluid from well. Shut in well, shut down for the night.

- 1/26/06 Move in and rig up JC Well Service completion rig (snowy roads). Nipple down frac valve. Nipple up wellhead. Nipple up BOP. Pick up 2 3/8" tubing and trip in hole to 1000 ft. Shut down for the night.
- 1/27/06 Pick up 2 3/8" tubing and trip in hole. Tag sand fill at 2232 ft (23 ft below bottom perforation – all perforations are uncovered). Rigged up air package for rig. Circulated 32 ft of sand fill from hole with air to PBTD of 2264 ft. Circulate hole clean on bottom. Move tubing above perforations and wait for 1 1/2 hours. Trip back in hole and clean out another 11 ft of fill. Move tubing to 2209 ft (bottom perforation) and shut down for the night.
- 1/28/06 Overnight shutin pressures: tubing 120 psi, annulus 120 psi. Tubing pressure blew down immediately. Rigged to swab. Initial fluid level was approximately 10 ft above seating nipple. Recovered very little fluid on swab run. Shut down for the weekend.
- 1/29/06 Shut down – Sunday.
- 1/30/06 Overnight shutin pressures: tubing 120 psi, annulus 120 psi. Tubing pressure blew down immediately. Rigged to swab. Initial fluid level was at the seating nipple. Recovered very little fluid on swab run. Trip tubing out of hole, laying down. Nipple down BOP and wellhead and nipple up frac valve. Shut down and wait for refrac.
- 1/31 –  
2/8/06 Wait on frac crew for refrac.
- 2/9/06 Rigged up Halliburton. Acidized Basal Fruitland Coal interval with 1000 gallons of 15% HCL acid containing 77 RCN ball sealers @ 10 bpm @ 2500 psi. Had some ball action before balling to 3500 psi. Rigged up Blue Jet wireline service. Ran junk basket in hole to recover ball sealers. Could not get junk basket below tight spot in casing at 2213 ft (just below perforations). Recovered 9 ball sealers. Fracture stimulated the Basal Fruitland Coal interval with 48,000 gallons of 15 vis Silver Stim LT with Sandwedge X-linked gel system containing 86,500 lbs of 20/40 sand as follows:
- |  |                   |
|--|-------------------|
| 6,000 gals of 15 vis Silver Stim LT pad          | 15 bpm @ 2800 psi |
| 6,000 gals of 15 vis Silver Stim LT w/¼ ppg sand | 15 bpm @ 2700 psi |
| 6,000 gals of 15 vis Silver Stim LT w/½ ppg sand | 21 bpm @ 3100 psi |

7,000 gals of 15 vis Silver Stim LT w/1 ppg sand	27 bpm @ 2300 psi
7,000 gals of 15 vis Silver Stim LT w/2 ppg sand	27 bpm @ 2700 psi
7,000 gals of 15 vis Silver Stim LT w/3 ppg sand	27 bpm @ 3100 psi
5,000 gals of 15 vis Silver Stim LT w/4 ppg sand	27 bpm @ 3500 psi
4,000 gals of 15 vis Silver Stim LT w/5 ppg sand	27 bpm @ 3800 psi
1,450 gals of 15 vis Silver Stim LT flush	16 bpm @ 3800 psi

Initial shut in pressure was 3700 psi, decreasing to 2450 psi after 15 minutes. Average rate 25 bpm, average pressure 3000 psi. Maximum pressure 3850 psi, minimum pressure 2000 psi. Ran Weatherford frac plug in hole on wireline and set at 2190 ft. Pressure tested plug to 3000 psi, held OK. Perforated the Upper Fruitland Coal interval with 3 1/8" casing gun at 3 JSPF as follows:

2129 - 2147	18 ft	54 holes	.34" diameter
2168 - 2182	14 ft	42 holes	.34" diameter
Total	32 ft	96 holes	.34" diameter

Broke down perforations at 700 psi. Pumped 1500 gals of 15% HCl acid containing 144 bio balls at 10 bpm @ 1000 psi. Saw some ball action and near balloff. Final injection rate was 10 bpm @ 1900 psi, with an ISIP of 600 psi. Fracture stimulated the Upper Fruitland Coal with 61,000 gallons of 15 vis (pad) and 12 vis (sand laden fluid) Silver Stim LT with Sandwedge X-linked gel system containing 140,000 lbs of 20/40 sand as follows:

10,000 gals of 15 vis Silver Stim LT pad	32 bpm @ 1300 psi
6,000 gals of 15 vis Silver Stim LT w/1/2 ppg sand	32 bpm @ 1350 psi
7,000 gals of 12 vis Silver Stim LT w/1 ppg sand	32 bpm @ 1450 psi
10,000 gals of 12 vis Silver Stim LT w/2 ppg sand	32 bpm @ 1450 psi
10,000 gals of 12 vis Silver Stim LT w/3 ppg sand	32 bpm @ 1450 psi
10,000 gals of 12 vis Silver Stim LT w/4 ppg sand	32 bpm @ 1400 psi
8,000 gals of 12 vis Silver Stim LT w/5 ppg sand	32 bpm @ 1300 psi
1,400 gals of 12 vis Silver Stim LT flush	32 bpm @ 1400 psi

Initial shut in pressure was 1200 psi, decreasing to 900 psi after 15 minutes. Average rate 32 bpm, average pressure 1400 psi. Maximum pressure 1450 psi, minimum pressure 1300 psi. Total load fluid to recover for the day 2,930 bbls. Shut well in. Shut down for the night.

- 2/10/06 Move in and rig up JC Well Service completion rig. Nipple down frac head. Nipple up wellhead and BOP. Pick up 3 7/8" drag bit and 2 3/8" tubing. Tagged fill at 2042 ft. Rigged up air package on rig. Circulated 10 ft of sand fill from hole to 2052 ft. Having trouble keeping circulation, sand is very sticky. Pull 5 jts of tubing. Shut down for the night.
- 2/11/06 Overnight pressures: tubing 120 psi, annulus 95 psi. Blow down tubing pressure. Retag sand at 2100 ft (sand bridge yesterday?) Rigged up air package on rig. Circulated 90 ft of sand fill from hole to frac plug 2190 ft.

Drilled on frac plug for 4½ hrs, could not get through frac plug (spinning). Move tubing above perforations and shut down for the weekend.

2/12/06 Shut down – Sunday

2/13/06 Shut in pressures: tubing 0 psi (string float in hole), annulus 160 psi. Retag fill at 2185 ft (5 ft of fill). Rigged up air package on rig. Circulated 5 ft of sand fill from hole and started drilling on frac plug again. Drilled 1 foot and drag bit stopped drilling, plug is spinning and bit is unable to torque up. Trip tubing and bit out of hole, bit was severely worn. Trip in hole with mill. Shut down for the night.

2/14/06 Shut in pressures: tubing 140 psi, annulus 130 psi. Blow down tubing pressure. Tag tight spot at 2186 ft with mill. Mill through tight spot and start milling on frac plug. Milled for 1½ hrs before fell through plug. Had to mill on plug remnants and work through several tight spots to get to PBTD of 2264 ft. Circulated at PBTD with air to clean up well. Trip out of hole with mill. Start trip in hole with production tubing string. Shut down for the night.

2/15/06 Shut in pressures: tubing 40 psi, annulus 135 psi. Blow down tubing pressure. Finish trip in hole with production tubing. Tagged sand fill at 2262 ft, 2 ft above PBTD. Moved tubing up hole and landed as follows:

<u>Description</u>	<u>Length</u>	<u>Depth</u>
GL to landing point	3.00	0 – 3
68 jts of 2 3/8" 4.7#/ft J55 EUE yellowband tubing	2177.30	3 – 2180
1 tubing sub	8.20	2180 – 2189
1 seating nipple	1.10	2189 – 2190
1 tail joint of 2 3/8" tubing	<u>16.33</u>	2190 – 2206
	2205.93	

Nipple down BOP, nipple up wellhead. Rigged to swab. Made 28 swab runs. Fluid level started at 15 ft above seating nipple and increased to 50 ft above seating nipple. Well would blow some gas after each swab run, then die. Shut well in, shut down for the night.

2/16/06 Shut in pressures: tubing 60 psi, annulus 135 psi. Blow down tubing pressure. Rigged to swab. Made 1 swab run and well started flowing gas and water. Well flowed for 1½ hours then died. Made 22 more swab runs during the day with the fluid level staying 50 ft above seating nipple. Well would blow some gas after each swab run, then die. Shut well in. Rigged down completion rig and released rig. Wait on well hookup. Report Complete.