

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED

1a. Type of Well		<input type="checkbox"/> Oil Well	<input checked="" type="checkbox"/> Gas Well	<input type="checkbox"/> Dry	<input type="checkbox"/> Other				
b. Type of Completion:		<input checked="" type="checkbox"/> New Well	<input type="checkbox"/> Work Over	<input type="checkbox"/> Deepen	<input type="checkbox"/> Plug Back				
2. Name of Operator ConocoPhillips Company									
3. Address PO Box 4289, Farmington, NM 87499			3a. Phone No. (include area code) (505) 326-9700						
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface UNIT N (SE/SW), 1260' FSL & 1887' FWL At top prod. Interval reported below UNIT L (NW/SW), 1750' FSL & 730' FWL At total depth UNIT L (NW/SW), 1750' FSL & 730' FWL									
14. Date Spudded 8/14/2012		15. Date T.D. Reached 9/5/2012		16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 10/23/2012 GRS					
18. Total Depth: MD 7777' TVD 7583'		19. Plug Back T.D.: MD 7748' TVD 7554'		20. Depth Bridge Plug Set: MD TVD					
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) GR/CCL/CBL				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
12 1/4"	9 5/8" / H-40	32.3#	0	347'	n/a	101sx-Type I-II	29bbbls	Surface	4bbbls
8 3/4"	7" / J-55	23#	0	5091'	n/a	640sx-Premium Lite	233bbbls	Surface	55bbbls
6 1/4"	4 1/2" / L-80	11.6#	0	7768'	n/a	216sx-Premium Lite	78bbbls	4080'	n/a
24. Tubing Record						RCU NOV 28 '12 OIL CONS. DIV. DIST. 3			
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2 3/8", 4.7#, L-80	7656'	n/a							
25. Producing Intervals						26. Perforation Record			
Formation	Top	Bottom	Perforated Interval		Size	No. Holes	Perf. Status		
A) Lower Dakota	7577'	7710'	2SPF		.34"	38	open		
B) Upper Dakota	7486'	7558'	ISPF		.34"	12	open		
C) Total						50			
D)									
27. Acid, Fracture, Treatment, Cement Squeeze, etc.						Amount and Type of Material			
Depth Interval		Acidize w/ 10bbbls of 15% HCL. Frac'd w/ 39,858gals 70% Slickwater N2 Foam w/ 39,724# of 20/40 Brady sand. Total N2: 2,480,300SCF.							
7486' - 7710'									
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
10/23/2012 GRS	10/29/2012	1hr.	→	0/boph	33/mcf/h	trace/bwph	n/a	n/a	FLOWING
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
1/2"	SI-123psi	SI-920psi	→	0/bopd	792/mcf/d	3/ bwpd	n/a		SHUT IN
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		→						

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

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NOV 26 2012

FARMINGTON FIELD OFFICE  
BY T. Salyers

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PC

## 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 (Solid, used for fuel, vented, etc.)

## TO BE SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem test, 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	2306'	2465'	White, cr-gr ss	Ojo Alamo	2306'
Kirtland	2465'	2816'	Gry sh interbedded w/tight, gry, fine-gr ss.	Kirtland	2465'
Fruitland	2816'	3147'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.	Fruitland	2816'
Pictured Cliffs	3147'	3307'	Bn-Gry, fine grn, tight ss.	Pictured Cliffs	3147'
Lewis	3307'	3582'	Shale w/ siltstone stringers	Lewis	3307'
Huerfano Bentonite	3582'	4036'	White, waxy chalky bentonite	Huerfano Bentonite	3582'
Chacra	4036'	0	Gry fn grn silty, glauconitic sd stone w/ drk gry shale	Chacra	4036'
Mesa Verde		4880'	Light gry, med-fine gr ss, carb sh & coal	Mesa Verde	0
Menefee	4880'	5481'	Med-dark gry, fine gr ss, carb sh & coal	Menefee	4880'
Point Lookout	5481'	5898'	Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation	Point Lookout	5481'
Mancos	5898'	6555'	Dark gry carb sh.	Mancos	5898'
Gallup	6555'	7373'	Lt. gry to brn calc carb micac glauc silts & very fine gry gry ss w/ irreg. interbed sh.	Gallup	6555'
Greenhorn	7373'	7430'	Highly calc gry sh w/ thin fmst.	Greenhorn	7373'
Graneros	7430'	7485'	Dk gry shale, fossil & carb w/ pyrite incl.	Graneros	7430'
Dakota	7485'		Lt to dark gry foss carb sl calc sl silty ss w/ pyrite incl thin sh bands cly Y shale breaks	Dakota	7485'
Morrison			Interbed grn, brn & red waxy sh & fine to coard grn ss	Morrison	

## 32. Additional remarks (include plugging procedure):

This is a Blanco Mesaverde, Basin Dakota &amp; Basin Mancos commingle well under DHC4536.

## 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)

Arleen Kellywood

Title

Staff Regulatory Tech.

Signature

Arleen Kellywood

Date

11/13/12

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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010WELL COMPLETION OR RECOMPLETION REPORT AND LOG  
NOV 13 2012

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b. Type of Completion:		<input checked="" type="checkbox"/> New Well	<input type="checkbox"/> Work Over	<input type="checkbox"/> Deepen	<input type="checkbox"/> Plug Back
Other:					
2. Name of Operator ConocoPhillips Company					
3. Address PO Box 4289, Farmington, NM 87499			3a. Phone No. (include area code) (505) 326-9700		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface UNIT N (SE/SW), 1260' FSL & 1887' FWL At top prod. Interval reported below UNIT L (NW/SW), 1750' FSL & 730' FWL At total depth UNIT L (NW/SW), 1750' FSL & 730' FWL					
14. Date Spudded 8/14/2012		15. Date T.D. Reached 9/5/2012		16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 10/18/2012 GRS	
18. Total Depth: MD 7777' TVD 7583'		19. Plug Back T.D.: MD 7748' TVD 7554'		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) GR/CCL/CBL				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)	

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
12 1/4"	9 5/8" / H-40	32.3#	0	347'	n/a	101sx-Type I-II	29bbls	Surface	4bbls
8 3/4"	7" / J-55	23#	0	5091'	n/a	640sx-Premium Lite	233bbls	Surface	55bbls
6 1/4"	4 1/2" / L-80	11.6#	0	7768'	n/a	216sx-Premium Lite	78bbls	4080'	n/a

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 3/8", 4.7#, L-80	7656'	n/a						

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Point Lookout	5482'	5745'	ISFF	.34"	25	open
B) Upper Mancos	5052'	5277'	ISFF	.34"	25	open
C) Total					50	
D)						

Depth Interval	Amount and Type of Material
5482' - 5745'	Acidize w/ 10bbls 15% HCL Acid. Frac'd w/ 37,464 gal 70% Slickwater N2 Foam w/ 100,482# of 20/40 Brady sand. Total N2: 1,418,700SCF.
5052' - 5277'	Acidize w/ 10bbls 15% HCL Acid. Frac'd w/ 19,278 gal 70% Slickwater N2 Foam w/ 46,090# of 20/40 Brady sand. Total N2: 722,700SCF.

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
10/18/2012 GRS	10/29/2012	1hr.	→	0/boph	22/mcf/h	2/bwph	n/a	n/a	FLOWING
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
1/2"	SI-123psi	SI-920psi	→	0/bopd	523/mcf/d	48/bwph	n/a	SHUT IN	

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		→						

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

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NMOC

NOV 26 2012

FARMINGTON FIELD OFFICE  
BY T. Salazar

PC

## 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 (Solid, used for fuel, vented, etc.)

## TO BE SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem test, 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	2306'	2465'	White, cr-gr ss	Ojo Alamo	2306'
Kirtland	2465'	2816'	Gry sh interbedded w/tight, gry, fine-gr ss.	Kirtland	2465'
Fruitland	2816'	3147'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.	Fruitland	2816'
Pictured Cliffs	3147'	3307'	Bn-Gry, fine grn, tight ss.	Pictured Cliffs	3147'
Lewis	3307'	3582'	Shale w/ siltstone stringers	Lewis	3307'
Huerfanito Bentonite	3582'	4036'	White, waxy chalky bentonite	Huerfanito Bentonite	3582'
Chacra	4036'	0	Gry fn grn silty, glauconitic sd stone w/ drk gry shale	Chacra	4036'
Mesa Verde		4880'	Light gry, med-fine gr ss, carb sh & coal	Mesa Verde	0
Menefee	4880'	5481'	Med-dark gry, fine gr ss, carb sh & coal	Menefee	4880'
Point Lookout	5481'	5898'	Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation	Point Lookout	5481'
Mancos	5898'	6555'	Dark gry carb sh.	Mancos	5898'
Gallup	6555'	7373'	Lt. gry to brn calc carb micac glauc silts & very fine gry gry ss w/ irreg. interbed sh.	Gallup	6555'
Greenhorn	7373'	7430'	Highly calc gry sh w/ thin lmst.	Greenhorn	7373'
Graneros	7430'	7485'	Dk gry shale, fossil & carb w/ pyrite incl.	Graneros	7430'
Dakota	7485'		Lt to dark gry foss carb sl calc slitty ss w/ pyrite incl thin sh bands cly Y shale breaks	Dakota	7485'
Morrison			Interbed grn, brn & red waxy sh & fine to coard grn ss	Morrison	

## 32. Additional remarks (include plugging procedure):

This is a Blanco Mesaverde, Basin Dakota & Basin Mancos commingle well under DHC4536.

## 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)

Arlene Kellywood

Title

Staff Regulatory Tech.

Signature

Arlene Kellywood

Date

11/13/12

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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NOV 13 2012

1a. Type of Well		<input type="checkbox"/> Oil Well	<input checked="" type="checkbox"/> Gas Well	<input type="checkbox"/> Dry	<input type="checkbox"/> Other				
b. Type of Completion:		<input checked="" type="checkbox"/> New Well	<input type="checkbox"/> Work Over	<input type="checkbox"/> Deepen	<input type="checkbox"/> Plug Back				
Other: _____									
2. Name of Operator <b>ConocoPhillips Company</b>									
3. Address <b>PO Box 4289, Farmington, NM 87499</b>			3a. Phone No. (include area code) <b>(505) 326-9700</b>						
4. Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface <b>UNIT N (SE/SW), 1260' FSL &amp; 1887' FWL</b>  At top prod. Interval reported below <b>UNIT L (NW/SW), 1750' FSL &amp; 730' FWL</b>  At total depth <b>UNIT L (NW/SW), 1750' FSL &amp; 730' FWL</b>									
14. Date Spudded <b>8/14/2012</b>		15. Date T.D. Reached <b>9/5/2012</b>		16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. <b>10/22/2012 GRS</b>					
18. Total Depth: MD <b>7777'</b> TVD <b>7583'</b>		19. Plug Back T.D.: MD <b>7748'</b> TVD <b>7554'</b>		20. Depth Bridge Plug Set: MD <b>7748'</b> TVD <b>7554'</b>					
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) <b>GR/CCL/CBL</b>			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
12 1/4"	9 5/8" / H-40	32.3#	0	347'	n/a	101sx-Type I-II	29bbls	Surface	4bbls
8 3/4"	7" / J-55	23#	0	5091'	n/a	640sx-Premium Lite	233bbls	Surface	55bbls
6 1/4"	4 1/2" / L-80	11.6#	0	7768'	n/a	216sx-Premium Lite	78bbls	4080'	n/a
						RCVD NOV 28 '12 OIL CONS. DIV. DIST. 3			
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", 4.7#, L-80	7656'	n/a							
25. Producing Intervals						26. Perforation Record			
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status			
A) Lower Mancos	6761'	6908'	3SPF	.34"	54	open			
B) Upper Mancos	6530'	6690'	3SPF	.34"	51	open			
C) Total					105				
D)									
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval		Amount and Type of Material							
6761' - 6908'		Frac'd w/ 5,00gal 20# X-Link Pre Pad w/ 32,640 gal 20# X-Link 70% N2 Foam w/ 150,442# of 20/40 Brady sand. Total N2: 2,172,400SCF.							
6530' - 6690'		Frac'd w/ 5,00gal 20# X-Link Pre Pad w/ 42,588 gal 20# X-Link 70% N2 Foam w/ 153,513# of 20/40 Brady sand. Total N2: 2,006,400SCF.							
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
10/22/2012 GRS	10/29/2012	1hr.	0 bopd	0/boph	20/mcf/h	2/bwph	n/a	n/a	FLOWING
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
1/2"	SI-123psi	SI-920psi	0 bopd	0/bopd	488/mcf/d	45/bwpd	n/a	SHUT IN	
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
			0 bopd						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
SI			0 bopd						

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

ACCEPTED FOR RECORD

NOV 26 2012

NMOCD

FARMINGTON FIELD OFFICE  
BY T. Salyers

## 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 (Solid, used for fuel, vented, etc.)

## TO BE SOLD

## 30. Summary of Porous Zones (Include Aquifers):

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## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
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Kirtland	2465'	2816'	Gry sh interbedded w/tight, gry, fine-gr ss.	Kirtland	2465'
Fruitland	2816'	3147'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.	Fruitland	2816'
Pictured Cliffs	3147'	3307'	Bn-Gry, fine grn, tight ss.	Pictured Cliffs	3147'
Lewis	3307'	3582'	Shale w/ siltstone stringers	Lewis	3307'
Huerfano Bentonite	3582'	4036'	White, waxy chalky bentonite	Huerfano Bentonite	3582'
Chacra	4036'	0	Gry fn grn silty, glauconitic sd stone w/ drk gry shale	Chacra	4036'
Mesa Verde		4880'	Light gry, med-fine gr ss, carb sh & coal	Mesa Verde	0
Menefee	4880'	5481'	Med-dark gry, fine gr ss, carb sh & coal	Menefee	4880'
Point Lookout	5481'	5898'	Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation	Point Lookout	5481'
Mancos	5898'	6555'	Dark gry carb sh.	Mancos	5898'
Gallup	6555'	7373'	Lt. gry to brn calc carb micac glauc silts & very fine gry gry ss w/ irreg. interbed sh.	Gallup	6555'
Greenhorn	7373'	7430'	Highly calc gry sh w/ thin lmst.	Greenhorn	7373'
Graneros	7430'	7485'	Dk gry shale, fossil & carb w/ pyrite incl.	Graneros	7430'
Dakota	7485'		Lt to dark gry foss carb sl calc sl silty ss w/ pyrite incl thin sh bands cly Y shale breaks	Dakota	7485'
Morrison			Interbed grn, brn & red waxy sh & fine to coard grn ss	Morrison	

## 32. Additional remarks (include plugging procedure):

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 ☐ 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)

Arleen Kellywood

Title

Staff Regulatory Tech.

Signature

Date

11/13/12

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.