

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED

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

MAY - 3 2012

AMENDED

Bureau of Land Management

1a Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		5 Lease Serial No	
b Type of Completion <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff Resrv		6 If Indian, Allottee or Tribe Name	
Other		7 Unit or CA Agreement Name and No	
2 Name of Operator		8 Lease Name and Well No	
3 Address		9 API Well No	
3a Phone No (include area code)		10 Field and Pool or Exploratory	
4 Location of Well (Report location clearly and in accordance with Federal requirements)*		11 Sec, T, R, M, on Block and Survey or Area	
At surface		12 County or Parish	
At top prod Interval reported below		13 State	
At total depth		17 Elevations (DF, RKB, RT, GL)*	
14 Date Spudded		15 Date T D Reached	
16 Date Completed		18 Total Depth	
19 Plug Back T D		20 Depth Bridge Plug Set	
21 Type Electric & Other Mechanical Logs Run (Submit copy of each)		22 Was well cored?	
23 Casing and Liner Record (Report all strings set in well)		24 Tubing Record	
25 Producing Intervals		26 Perforation Record	
27 Acid, Fracture, Treatment, Cement Squeeze, etc		28 Production - Interval A	
28a Production - Interval B		28b Production - Interval C	

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

ACCEPTED FOR RECORD

MAY 07 2012

NMOCD

FARMINGTON FIELD OFFICE
BY SW

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	750'	922'	White, cr-gr ss	Ojo Alamo	750'
Kirtland	922'	1801'	Gry sh interbedded w/tight, gry, fine-gr ss	Kirtland	922'
Fruitland	1801'	2232'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss	Fruitland	1801'
Pictured Cliffs	2232'	2380'	Bn-Gry, fine grn, tight ss	Pictured Cliffs	2232'
Lewis	2380'	2978'	Shale w/ siltstone stringers	Lewis	2380'
Huerfano Bentonite	2978'	3244'	White, waxy chalky bentonite	Huerfano Bentonite	2978'
Chacra	3244'	3208'	Gry fn grn silty, glauconitic sd stone w/ drk gry shale	Chacra	3244'
Mesa Verde	3208'	4014'	Light gry, med-fine gr ss, carb sh & coal	Mesa Verde	3208'
Menefee	4014'	4542'	Med-dark gry, fine gr ss, carb sh & coal	Menefee	4014'
Point Lookout	4542'	4935'	Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation	Point Lookout	4542'
Mancos	4935'	5796'	Dark gry carb sh.	Mancos	4935'
Gallup	5796'	6536'	Lt gry to brn calc carb micac glauc silts & very fine gry gry ss w/ irreg interbed sh	Gallup	5796'
Greenhorn	6536'	6596'	Highly calc gry sh w/ thin lmst	Greenhorn	6536'
Graneros	6596'	6647'	Dk gry shale, fossil & carb w/ pyrite incl	Graneros	6596'
Dakota	6647'	6848'	Lt to dark gry foss carb sl calc sl silty ss w/ pyrite incl thin sh bands cly Y shale breaks	Dakota	6647'
Morrison			Interbed grn, brn & red waxy sh & fine to coard grn ss	Morrison	0

32 Additional remarks (include plugging procedure)

This is a Blanco Mesaverde & Basin Dakota commingle well under DHC3478AZ.

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) Marie E. Jaramillo Title Staff Regulatory Tech

Signature _____ Date 4/2/2012

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

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OMB No 1004-0137
Expires July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

AMENDED

5. Lease Serial No

NM-019410

1a Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b Type of Completion ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff Resrv

Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No

NMNM 76254

8. Lease Name and Well No

BRUINGTON 15G

2. Name of Operator

ConocoPhillips Company

3. Address

PO Box 4289, Farmington, NM 87499

3a Phone No (include area code)

(505) 326-9700

9. API Well No

30-045-35115 - 0002

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

At surface

UNIT L (NW/SW), 1795' FSL & 905' FWL

At top prod. Interval reported below

UNIT L (NW/SW), 1790' FSL & 829' FWL

At total depth

UNIT L (NW/SW), 1790' FSL & 829' FWL

14. Date Spudded

1/24/2012

15. Date T D Reached

2/13/2012

16. Date Completed

☐ D & A ☒ Ready to Prod

4/17/2012

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

5813'

18. Total Depth

MD

6848'

TVD

6846'

19. Plug Back T D

MD

6845'

TVD

6843'

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?

☒ 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
12 1/4"	46/411-40	32.3#	0	227'	n/a	76sx-Type I-II	22bbls	Surface	7bbls
8 3/4"	7 J-55	20# / 23#	0	4189'	1781'	552sx-Premium Lite	202bbls	Surface	21bbls
6 1/4"	4 1/2 L-80	11.6#	0	6847'	n/a	217sx-Premium Lite	78bbls	TOC @ 2870'	n/a

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"	6761'	n/a						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf Status
A) Point Lookout	4328'	4830'	1SPF	.34"	24	open
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
4328' - 4830'	Acidize w/ 10bbls of 15% HCL. Frac'd w/ 114,422gals 70% Quality N2 Slick foam w/ 98,571# of 20/40 Brown sand. Pumped 66bbls foamed flush. Total N2: 1,264,300SCF.

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
n/a	4/5/2012	1hr.	→	n/a/boph	139/mcf/h	1/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-933psi	SI-938psi	→	n/a/bopd	3,332/mcf/d	12/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
			→						RCVD MAY 14 '12
Choke Size	Tbg Press Flwg	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
SI			→						OIL CONS. DIV. DIST. 3

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

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MAY 07 2012

FARMINGTON FIELD OFFICE
BY SK

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	750'	922'	White, cr-gr ss	Ojo Alamo	750'
Kirtland	922'	1801'	Gry sh interbedded w/tight, gry, fine-gr ss	Kirtland	922'
Fruitland	1801'	2232'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.	Fruitland	1801'
Pictured Cliffs	2232'	2380'	Bn-Gry, fine grn, tight ss	Pictured Cliffs	2232'
Lewis	2380'	2978'	Shale w/ siltstone stringers	Lewis	2380'
Huerfano Bentonite	2978'	3244'	White, waxy chalky bentonite	Huerfano Bentonite	2978'
Chacra	3244'	3208'	Gry fn grn silty, glauconitic sd stone w/ drk gry shale	Chacra	3244'
Mesa Verde	3208'	4014'	Light gry, med-fine gr ss, carb sh & coal	Mesa Verde	3208'
Menefee	4014'	4542'	Med-dark gry, fine gr ss, carb sh & coal	Menefee	4014'
Point Lookout	4542'	4935'	Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation	Point Lookout	4542'
Mancos	4935'	5796'	Dark gry carb sh	Mancos	4935'
Gallup	5796'	6536'	Lt gry to brn calc carb micac glauc silts & very fine gry gry ss w/ irreg interbed sh	Gallup	5796'
Greenhorn	6536'	6596'	Highly calc gry sh w/ thin lmst	Greenhorn	6536'
Graneros	6596'	6647'	Dk gry shale, fossil & carb w/ pyrite incl	Graneros	6596'
Dakota	6647'	6848'	Lt to dark gry foss carb sl calc sl silty ss w/ pyrite incl thin sh bands cly Y shale breaks	Dakota	6647'
Morrison			Interbed grn, brn & red waxy sh & fine to coard grn ss	Morrison	0

32. Additional remarks (include plugging procedure):

This is a Blanco Mesaverde & Basin Dakota commingle well under DHC3478AZ.

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) Marie E. Jaramillo Title Staff Regulatory Tech.

Signature _____ Date 4/2/2012

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WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Farmington Field Office

5 Lease Serial No

NM-019410

1a Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b Type of Completion ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff Resrv

6 Indian, Allottee or Tribe Name

7 Unit or CA Agreement Name and No.

Other

2 Name of Operator

ConocoPhillips Company

8 Lease Name and Well No

BRUINGTON 15G

3 Address

PO Box 4289, Farmington, NM 87499

3a Phone No (include area code)

(505) 326-9700

9 API Well No

30-045-35115

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

At surface

UNIT L (NW/SW), 1795' FSL & 905' FWL

10 Field and Pool or Exploratory

BASIN DK

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

SEC: 15, T30N, R11W

12 County or Parish

San Juan

13 State

New Mexico

At top prod Interval reported below

UNIT L (NW/SW), 1790' FSL & 829' FWL

At total depth

UNIT L (NW/SW), 1790' FSL & 829' FWL

14 Date Spudded

1/24/2012

15 Date T D Reached

2/13/2012

16 Date Completed

☐ D & A☒ Ready to Prod

4/17/2012

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

5813'

18 Total Depth

MD

6848'

TVD

6846'

19 Plug Back T D

MD

6845'

TVD

6843'

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?

☒ 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
9 5/8"	H-40	32.3#	0	227'	n/a	76sx-Type I-II	22bbls	Surface	7bbls
7"	J-55	20# / 23#	0	4189'	1781'	552sx-Premuim Lite	202bbls	Surface	21bbls
4 1/2"	L-80	11.6#	0	6847'	n/a	217sx-Premuim Lite	78bbls	TOC @ 2870'	n/a

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"	6761'	n/a						

25 Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf Status
A) Dakota	6778'	6830'	2SPF	.34"	24	open
B) Dakota	6652'	6750'	ISPF	.34"	28	open
C)						
D)						

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

Depth Interval	Amount and Type of Material
6652' - 6830'	Acidize w/ 10bbls of 15% HCL. Frac'd w/ 241,948gals 85% Quality N2 Slick foam pad w/ 24,752# of 20/40 Brown sand. Pumped 103bbls flush. Total N2:4,400,700SCF.

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
n/a	4/16/2012	1hr.	→	trace/boph	80/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-933psi	SI-938psi	→	trace/bopd	1,926/mcf/d	8/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
			→						RCVD MAY 2 '12 OIL CONS. DIV.
Choke Size	Tbg Press Flwg	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	SI		→						DIST. 3

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

ACCEPTED FOR RECORD

NMOCD

APR 26 2012

FARMINGTON FIELD OFFICE

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	
			→						

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Pictured Cliffs	2232'	2380'	Bn-Gry, fine grn, tight ss	Pictured Cliffs	2232'
Lewis	2380'	2978'	Shale w/ siltstone stringers	Lewis	2380'
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Marie E. Jaramilla

Title

Staff Regulatory Tech

Signature

Date

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7. Unit or CA Agreement Name and No.

8. Lease Name and Well No

BRUINGTON 15G

9. API Well No

30-045-35115

10. Field and Pool or Exploratory

BLANCO MV

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

SEC: 15, T30N, R11W

12. County or Parish

San Juan

13. State

New Mexico

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

5813'

2. Name of Operator

ConocoPhillips Company

3. Address

PO Box 4289, Farmington, NM 87499

3a. Phone No (include area code)

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

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At top prod. Interval reported below

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At total depth

UNIT L (NW/SW), 1790' FSL & 829' FWL

14. Date Spudded
1/24/201215. Date T D Reached
2/13/201216. Date Completed
☐ D & A ☒ Ready to Prod

4/17/2012

18. Total Depth MD 6848'
TVD 6846'19. Plug Back T D MD 6845'
TVD 6843'20. Depth Bridge Plug Set MD
TVD

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

GR/CCL/CBL

22. Was well cored? ☒ 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
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7"	J-55	20# / 23#	0	4189'	1781'	552sx-Premium Lite	202bbls	Surface	21bbls
4 1/2"	L-80	11.6#	0	6847'	n/a	217sx-Premium Lite	78bbls	TOC @ 2870'	n/a

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"	6761'	n/a						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf Status
A) Point Lookout	4328'	4830'	ISPF	.34"	24	open
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
4328' - 4830'	Acidize w/ 10bbls of 15% HCL. Frac'd w/ 114,422gals 70% Quality N2 Slick foam w/ 98,571# of 20/40 Brown sand. Pumped 66bbls foamed flush. Total N2:1,264,300SCF.

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
n/a	4/5/2012	1hr.		n/a/boph	139/mcf/h	1/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-933psi	SI-938psi		n/a/bopd	3,332/mcf/d	12/bwpd	n/a		RCVD MAY 2 '12 SHUT IN, CONS. DIV.

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
									DIST. 3
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)

ACCEPTED FOR RECORD

NMOCD

APR 26 2012

FARMINGTON FIELD OFFICE

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	750'	922'	White, cr-gr ss	Ojo Alamo	750'
Kirtland	922'	1801'	Gry sh interbedded w/tight, gry, fine-gr ss	Kirtland	922'
Fruitland	1801'	2232'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss	Fruitland	1801'
Pictured Cliffs	2232'	2380'	Bn-Gry, fine grn, tight ss	Pictured Cliffs	2232'
Lewis	2380'	2978'	Shale w/ siltstone stringers	Lewis	2380'
Huerfanto Bentonite	2978'	3244'	White, waxy chalky bentonite	Huerfanto Bentonite	2978'
Chacara	3244'	3208'	Gry fn grn silty, glauconitic sd stone w/ drk gry shale	Chacara	3244'
Mesa Verde	3208'	4014'	Light gry, med-fine gr ss, carb sh & coal	Mesa Verde	3208'
Menefee	4014'	4542'	Med-dark gry, fine gr ss, carb sh & coal	Menefee	4014'
Point Lookout	4542'	4935'	Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation	Point Lookout	4542'
Mancos	4935'	5796'	Dark gry carb sh	Mancos	4935'
Gallup	5796'	6536'	Lt gry to brn calc carb micac glauc silts & very fine gry gry ss w/ irreg interbed sh	Gallup	5796'
Greenhorn	6536'	6596'	Highly calc gry sh w/ thin lmst	Greenhorn	6536'
Graneros	6596'	6647'	Dk gry shale, fossil & carb w/ pyrite incl	Graneros	6596'
Dakota	6647'	6848'	Lt to dark gry foss carb sl calc sl silty ss w/ pyrite incl thin sh bands cly Y shale breaks	Dakota	6647'
Morrison			Interbed grn, brn & red waxy sh & fine to coard grn ss	Morrison	0

32 Additional remarks (include plugging procedure)

This is a Blanco Mesaverde & Basin Dakota commingle well under DHC3478AZ.

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)

Marie E. Jaramilla

Title

Staff Regulatory Tech

Signature

Date

4/2/2012

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