Form 3160-4
(August 2007)

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AUG 02 2012
Bureau of Land Management
Farmington Field Office

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5 Lease Serial No: SF-079296

1a Type of Well: [ ] Oil Well [X] Gas Well [ ] Dry [ ] Other
b Type of Completion: [X] New Well [ ] Work Over [ ] Deepen [ ] Plug Back [ ] Diff Resvr ,
Other

6 If Indian, Allottee or Tribe Name:

7 Unit or CA Agreement Name and No.: NMNM- 73929

2 Name of Operator: ConocoPhillips Company

8 Lease Name and Well No: FEDERAL 11M

3 Address: PO Box 4289, Farmington, NM 87499

3a Phone No (include area code): (505) 326-9700

9 API Well No: 30-039-30673-0061

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

At surface: UNIT I (NE/SE), 2445' FSL & 785' FEL

10 Field and Pool or Exploratory: BASIN DK

11 Sec , T , R , M , on Block and Survey or Area: SEC: 23, T26N, R06W

At top prod Interval reported below: SAME AS ABOVE

12 County or Parish: Rio Arriba

13 State: New Mexico

At total depth: SAME AS ABOVE

14 Date Spudded: 4/9/2012

15. Date T D Reached: 4/26/2012

16 Date Completed: [ ] D & A [X] Ready to Prod 07/09/12 GRC

17 Elevations (DF, RKB, RT, GL)*: 6405'

18 Total Depth: MD 7318' TVD

19 Plug Back T D: MD 7293' TVD

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? [X] No [ ] Yes (Submit analysis)
Was DST run? [X] No [ ] Yes (Submit report)
Directional Survey? [X] 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"	9 5/8" / H-40	32.3#	0	354'	n/a	153sx-Pre-mix	42bbls	Surface	.25bbl
8 3/4"	7" / J-55	20# / 23#	0	4560'	n/a	655sx-Premuim Lite	236bbls	Surface	62bbls
6 1/4"	4 1/2" / L-80	11.6#	0	7315'	n/a	205sx-Premuim Lite	74bbls	3620'	n/a

RCVD AUG 7'12
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"	7167'	n/a						

25 Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf Status
A)	Dakota	6984'	7048'	1SPF	.34"	20	open
B)	Dakota	7118'	7246'	2SPF	.34"	40	open
C)							
D)							

27 Acid, Fracture, Treatment, Cement Squeeze, etc

Depth Interval	Amount and Type of Material
6984' - 7246'	Start w/ 2% KCL water/ Acidize w/ 10bbls of 15% HCL. Frac'd w/ 44,478gals 70% foam Slickwater pad w/ 40,291# of 20/40 Arizona sand. Pumped 108bbls of fluid flush. Total N2:2,569,000SCF.

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
07/09/12 GRC	7/11/2012	1hr.	→	n/a /boph	11 /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-739psig	SI-812psig	→	n/a/bopd	275/mcf/d	17 / 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 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)

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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 *(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	2094'	2285'	White, cr-gr ss	Ojo Alamo	2094'
Kirltand	2285'	2528'	Gry sh interbedded w/tight, gry, fine-gr ss	Kirltand	2285'
Fruitland	2528'	2750'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss	Fruitland	2528'
Pictured Cliffs	2750'	2926'	Bn-Gry, fine grn, tight ss	Pictured Cliffs	2750'
Lewis	2926'	3203'	Shale w/ siltstone stingers	Lewis	2926'
Huerfanito Bentonite	3203'	3630'	*White, waxy chalky bentonite*	*Huerfanito Bentonite*	3203'
Chacra	3630'	4404'	Gry fn grn silty, glauconitic sd stone w/ drk gry shale	Chacra	3630'
Mesa Verde	4404'	4439'	Light gry, med-fine gr ss, carb sh & coal	Mesa Verde	4404'
Menefee	4439'	4980'	Med-dark gry, fine gr ss, carb sh & coal	Menefee	4439'
Point Lookout	4980'	5432'	Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation	Point Lookout	4980'
Mancos	5432'	6070'	Dark gry carb sh	Mancos	5432'
Gallup	6070'	6898'	Lt gry to brn calc carb micac gluac silts & very fine gry gry ss w/ irreg interbed sh	Gallup	6070'
Greenhorn	6898'	6952'	Highly calc gry sh w/ thin lmst	Greenhorn	6898'
Graneros	6952'	6980'	Dk gry shale, fossil & carb w/ pyrite incl	Graneros	6952'
Dakota	6980'	7318'	Lt to dark gry foss carb sl calc sl silty ss w/ pyrite incl thin sh bands cly Y shale breaks	Dakota	6980'
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 trimingle well under DHC4534.

33 Indicate which items have been attached by placing a check in the appropriate boxes.

[X] 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 _____

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

(Continued on page 3)

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WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5 Lease Serial No: SF-079296

1a Type of Well: [ ] Oil Well [X] Gas Well [ ] Dry [ ] Other
b Type of Completion: [ ] New Well [ ] Work Over [ ] Deepen [ ] Plug Back [ ] Diff Resvr ,
Other

6 If Indian, Allottee or Tribe Name

7 Unit or CA Agreement Name and No: Need CA

2 Name of Operator: ConocoPhillips Company

8 Lease Name and Well No: FEDERAL 11M

3 Address: PO Box 4289, Farmington, NM 87499

3a Phone No (include area code): (505) 326-9700

9 API Well No: 30-039-30673 - 0062

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

10 Field and Pool or Exploratory: BASIN MANCOS

At surface: UNIT I (NE/SE), 2445' FSL & 785' FEL

11 Sec , T , R , M , on Block and Survey or Area: SEC: 23, T26N, R06W

At top prod Interval reported below: SAME AS ABOVE

12 County or Parish: Rio Arriba

13 State: New Mexico

At total depth: SAME AS ABOVE

14 Date Spudded	15 Date T D Reached	16 Date Completed	17 Elevations (DF, RKB, RT, GL)*
4/9/2012	4/26/2012	[ ] D & A [X] Ready to Prod 07/09/12 GRC	6405'

18 Total Depth	19 Plug Back T D	20 Depth Bridge Plug Set
MD 7318'	MD 7293'	MD
TVD	TVD	TVD

21 Type Electric & Other Mechanical Logs Run (Submit copy of each): GR/CCL/CBL

22 Was well cored? [X] No [ ] Yes (Submit analysis)
Was DST run? [X] No [ ] Yes (Submit report)
Directional Survey? [X] 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"	9 5/8" / H-40	32.3#	0	354'	n/a	153sx-Pre-mix	42bbls	Surface	.25bbl
8 3/4"	7" / J-55	20# / 23#	0	4560'	n/a	655sx-Premuim Lite	236bbls	Surface	62bbls
6 1/4"	4 1/2" / L-80	11.6#	0	7315'	n/a	205sx-Premuim Lite	74bbls	3620'	n/a

RCVD AUG 7 '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"	7167'	n/a						

25 Producing Intervals / 26 Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf Status
A)	Lower Mancos	6296'	6400'	3SPF	.34"	51	open
B)	Upper Mancos	6020'	6222'	3SPF	.34"	60	open
C)							
D)							

27 Acid, Fracture, Treatment, Cement Squeeze, etc

Depth Interval	Amount and Type of Material
6296' - 6400'	Frac'd w/ 48,174bbls X-Link of 70% foam water w/ 111,568# of 20/40 Arizona sand. Pumped 98bbls of fluid flush.
6020' - 6222'	Start w/ 2% KCL water. Frac'd w/ 44,604bbls X-Link of 70% pad w/ 153,891# of 20/40 Arizona sand. Pumped 93bbls of fluid flush.

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
07/09/12 GRC	7/11/2012	1hr.	→	n/a /boph	8 /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-739psi	SI-812psi	→	n/a/bopd	189/mcf/d	10/ 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 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)

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FARMINGTON FIELD OFFICE
BY TL Salyers

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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 *(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	2094'	2285'	White, cr-gr ss	Ojo Alamo	2094'
Kirltand	2285'	2528'	Gry sh interbedded w/tight, gry, fine-gr ss	Kirltand	2285'
Fruitland	2528'	2750'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss	Fruitland	2528'
Pictured Cliffs	2750'	2926'	Bn-Gry, fine grn, tight ss	Pictured Cliffs	2750'
Lewis	2926'	3203'	Shale w/ siltstone stingers	Lewis	2926'
Huerfanito Bentonite	3203'	3630'	White, waxy chalky bentonite	Huerfanito Bentonite	3203'
Chacra	3630'	4404'	Gry fn grn silty, glauconitic sd stone w/ drk gry shale	Chacra	3630'
Mesa Verde	4404'	4439'	Light gry, med-fine gr ss, carb sh & coal	Mesa Verde	4404'
Menefee	4439'	4980'	Med-dark gry, fine gr ss, carb sh & coal	Menefee	4439'
Point Lookout	4980'	5432'	Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation	Point Lookout	4980'
Mancos	5432'	6070'	Dark gry carb sh	Mancos	5432'
Gallup	6070'	6898'	Lt gry to brn calc carb micac gluac silts & very fine gry gry ss w/ irreg interbed sh	Gallup	6070'
Greenhorn	6898'	6952'	Highly calc gry sh w/ thin lmst	Greenhorn	6898'
Graneros	6952'	6980'	Dk gry shale, fossil & carb w/ pyrite incl	Graneros	6952'
Dakota	6980'	7318'	Lt to dark gry foss carb sl calc sl silty ss w/ pyrite incl thin sh bands cly Y shale breaks	Dakota	6980'
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 trimingle well under DHC4534.

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 _____

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1a Type of Well: [ ] Oil Well [X] Gas Well [ ] Dry [ ] Other
b Type of Completion: [X] New Well [ ] Work Over [ ] Deepen [ ] Plug Back [ ] Diff Resvr,
Other

6 If Indian, Allottee or Tribe Name:

7. Unit or CA Agreement Name and No: NMNM- 76139

2 Name of Operator: ConocoPhillips Company

8 Lease Name and Well No: FEDERAL 11M

3 Address: PO Box 4289, Farmington, NM 87499

3a Phone No (include area code): (505) 326-9700

9 API Well No: 30-039-30673-00C3

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

At surface: UNIT I (NE/SE), 2445' FSL & 785' FEL

10 Field and Pool or Exploratory: BLANCO MV

11 Sec, T, R, M, on Block and Survey or Area: SEC: 23, T26N, R06W

At top prod Interval reported below: SAME AS ABOVE

12 County or Parish: Rio Arriba

13 State: New Mexico

At total depth: SAME AS ABOVE

14 Date Spudded	15 Date T D Reached	16 Date Completed	17 Elevations (DF, RKB, RT, GL)*
4/9/2012	4/26/2012	[ ] D & A [X] Ready to Prod 07/09/12 GRC	6405'

18 Total Depth	19 Plug Back T D	20 Depth Bridge Plug Set
MD 7318'	MD 7293'	MD
TVD	TVD	TVD

21 Type Electric & Other Mechanical Logs Run (Submit copy of each): GR/CCL/CBL

22 Was well cored? [X] No [ ] Yes (Submit analysis)
Was DST run? [X] No [ ] Yes (Submit report)
Directional Survey? [X] 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"	9 5/8" / H-40	32.3#	0	354'	n/a	153sx-Pre-mix	42bbls	Surface	.25bbl
8 3/4"	7" / J-55	20# / 23#	0	4560'	n/a	655sx-Premuim Lite	236bbls	Surface	62bbls
6 1/4"	4 1/2" / L-80	11.6#	0	7315'	n/a	205sx-Premuim Lite	74bbls	3620'	n/a

RCVD AUG 7 '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"	7167'	n/a						

25 Producing Intervals / 26 Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf Status
A)	Point Lookout / LMF	4874'	5374'	1SPF	.34"	25	open
B)							
C)							
D)							

27 Acid, Fracture, Treatment, Cement Squeeze, etc

Depth Interval	Amount and Type of Material
4874' - 5374'	Acidize w/ 10bbls of 15% HCL. Frac'd w/ 40,320gals 70% Quality Slickwater foam w/ 133,900# of 20/40 Arizona sand. Pumped 75bbls of foam flush. Total N2:1,574,000SCF.

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
07/09/12 GRC	7/11/2012	1hr.	→	n/a /boph	21 /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-739psi	SI-812psi	→	n/a/bopd	499/mcf/d	22 / 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 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)

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FARMINGTON FIELD OFFICE
BY TL Salyers

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

TO BE SOLD

30 Summary of Porous Zones (Include Aquifers)

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Fruitland	2528'	2750'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss	Fruitland	2528'
Pictured Cliffs	2750'	2926'	Bn-Gry, fine grn, tight ss	Pictured Cliffs	2750'
Lewis	2926'	3203'	Shale w/ siltstone stingers	Lewis	2926'
Huerfanito Bentonite	3203'	3630'	White, waxy chalky bentonite	Huerfanito Bentonite	3203'
Chacra	3630'	4404'	Gry fn grn silty, glauconitic sd stone w/ drk gry shale	Chacra	3630'
Mesa Verde	4404'	4439'	Light gry, med-fine gr ss, carb sh & coal	Mesa Verde	4404'
Menefee	4439'	4980'	Med-dark gry, fine gr ss, carb sh & coal	Menefee	4439'
Point Lookout	4980'	5432'	Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation	Point Lookout	4980'
Mancos	5432'	6070'	Dark gry carb sh	Mancos	5432'
Gallup	6070'	6898'	Lt gry to brn calc carb micac gluac silts & very fine gry gry ss w/ irreg interbed sh	Gallup	6070'
Greenhorn	6898'	6952'	Highly calc gry sh w/ thin lmst	Greenhorn	6898'
Graneros	6952'	6980'	Dk gry shale, fossil & carb w/ pyrite incl	Graneros	6952'
Dakota	6980'	7318'	Lt to dark gry foss carb sl calc sl silty ss w/ pyrite incl thin sh bands cly Y shale breaks	Dakota	6980'
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 trimingle well under DHC4534.

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☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other.

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Name *(please print)* Marie E. Jaramillo Title Staff Regulatory Tech

Signature Date

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