Form 3160-4
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Amended API #

FORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2014

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: Jicarilla Apache Lease 424

1a. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other:

OCT 15 2014
Farmington Field Office

6. If Indian, Allottee or Tribe Name: Jicarilla Apache Nation
7. Unit or CA Agreement Name and No.:

2. Name of Operator: Logos Operating, LLC
8. Lease Name and Well No.: Logos #701H

3. Address: 4001 North Butler Ave, Building 7101, Farmington, NM 87401
3a. Phone No. (include area code): 505-330-9333
9. API Well No.: 30-043-21202 -00S1

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface: 450' FNL & 510' FWL, UL D
At top prod. interval reported below: 662' FNL & 22' FEL, UL H; Sec 7, T22N, R5W
At total depth: 664' FNL & 252' FWL, UL D; Sec 7, T22N, R5W (Loc of Bot perf is 659' FNL & 347' FWL)

10. Field and Pool or Exploratory: WC 22N5W7; Wildcat Gallup
11. Sec., T., R., M., on Block and Survey or Area: Sec. 8, T22N, R5W
12. County or Parish: Sandoval
13. State: NM

14. Date Spudded	15. Date T.D. Reached	16. Date Completed	17. Elevations (DF, RKB, RT, GL)*
04/26/2014	05/09/2014	☐ D & A ☑ Ready to Prod. 07/01/2014	6961' GL

18. Total Depth:	19. Plug Back T.D.:	20. Depth Bridge Plug Set:
MD 10766' TVD 5401'	MD 10720' TVD	MD TVD

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

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"	9-5/8" J-55	36	0	518'	N/A	320 sks	63 bbls	surface	35 bbls
8-3/4"	7" K-55	23	0	5666'	4311'	750 sks	239 bbls	surface	55 bbls
6-1/8"	4-1/2" P-110	11.6	4869'	10766'	N/A	430sks	108 bbls	surface	20 bbls

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	not yet							

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Gallup	4188'	10766	5762'-10617'	0.38"	534	open
B)						
C) — —						
D)						

OIL CONS. DIV DIST. 3

OCT 20 2014

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

Depth Interval	Amount and Type of Material
10453'-10617'	1440bbls 70Q Foam, 25765# 20/40 Brown, 276160# 12/20 Brown Sand, 2.7mmscf N2
10177'-10397'	1489bbls 70Q Foam, 26523# 20/40 Brown, 273460# 12/20 Brown Sand, 2.6mmscf N2
9901'-10119'	1737bbls 70Q Foam, 35000# 20/40 Brown, 277180# 12/20 Brown Sand, 2.8mmscf N2
** see attachment for remaining	stages

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
7/12/14			→	0	0	0			1st oil prod only Flowtest will be reported on 1st Delivery.

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
		0	→	0	0	0		

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
			→					

ACCEPTED FOR RECORD

OCT 16 2014

FARMINGTON FIELD OFFICE
BY: William Tambekou

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

NMOCD

Logos 701H
API# 30-043-21202
Wildcat Gallup
Logos Operating, LLC

27. Acid, Fracture, Treatment, Cement Squeeze, etc. (cont)		
Depth Interval	Stage	Amount and Type of Material
9625'-9845'	#4	1467bbls 70Q Foam, 20280# 20/40 Brown, 274200# 12/20 Brown Sand, 2.6mmscf N2
9350'-9569'	#5	1472bbls 70Q Foam, 24890# 20/40 Brown, 271640# 12/20 Brown Sand, 2.5mmscf N2
9073'-9293'	#6	1475bbls 70Q Foam, none# 20/40 Brown, 274840# 12/20 Brown Sand, 2.4mmscf N2
8797'-9017'	#7	1400bbls 70Q Foam, 24900# 20/40 Brown, 270020# 12/20 Brown Sand, 2.4mmscf N2
8521'-8738'	#8	1404bbls 70Q Foam, 25470# 20/40 Brown, 277400# 12/20 Brown Sand, 2.5mmscf N2
8245'-8465'	#9	1343bbls 70Q Foam, 24860# 20/40 Brown, 275600# 12/20 Brown Sand, 2.3mmscf N2
7969'-8189'	#10	1402bbls 70Q Foam, 25000# 20/40 Brown, 270360# 12/20 Brown Sand, 2.4mmscf N2
7693'-7913'	#11	1375bbls 70Q Foam, 24740# 20/40 Brown, 272320# 12/20 Brown Sand, 2.3mmscf N2
7417'-7637'	#12	1430bbls 70Q Foam, 24800# 20/40 Brown, 271500# 12/20 Brown Sand, 2.3mmscf N2
7141'-7361'	#13	1346bbls 70Q Foam, 26440# 20/40 Brown, 272700# 12/20 Brown Sand, 2.2mmscf N2
6865'-7085'	#14	1290bbls 70Q Foam, 26160# 20/40 Brown, 270860# 12/20 Brown Sand, 2.4mmscf N2
6589'-6809'	#15	1334bbls 70Q Foam, 23740# 20/40 Brown, 273800# 12/20 Brown Sand, 2.5mmscf N2
6314'-6533'	#16	1316bbls 70Q Foam, 26000# 20/40 Brown, 273240# 12/20 Brown Sand, 2.2mmscf N2
6037'-6257'	#17	1551bbls 70Q Foam, 24084# 20/40 Brown, 275520# 12/20 Brown Sand, 2.3mmscf N2
5762'-5981'	#18	1352bbls 70Q Foam, 24084# 20/40 Brown, 271320# 12/20 Brown Sand, 2.5mmscf N2

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.)*

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
Ojo Alamo	1359				
Kirtland	1488				
Fruitland	--				
Pictured Cliffs	1896				
Chacra	2311				
Cliff House	3399				
Menefee	3415				
Point Lookout	4039				
Mancos	4188				
Gallup	5216				
Greenhorn					
Graneros					
Dakota					

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)* Tamra Sessions Title Operations Technician

Signature Tamra Sessions Date 07/16/2014

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)

OIL CONS. DIV DIST. 3

JUL 21 2014

Form 3160-4
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Amended TVD & TOL

FORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2014

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: Jicarilla Apache Lease 424

1a. Type of Well: ☑ Oil Well ☐ 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: Jicarilla Apache Nation

7. Unit or CA Agreement Name and No.:

2. Name of Operator: Logos Operating, LLC

8. Lease Name and Well No.: Logos #701H

3. Address: 4001 North Butler Ave, Building 7101, Farmington, NM 87401

3a. Phone No. *(include area code)*: 505-330-9333

9. API Well No.: 30-043-21219

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

At surface: 450' FNL & 510' FWL, UL D

At top prod. interval reported below: 662' FNL & 22' FEL, UL H; Sec 7, T22N, R5W

At total depth: 664' FNL & 252' FWL, UL D; Sec 7, T22N, R5W (Loc of Bot perf is 659' FNL & 347' FWL)

10. Field and Pool or Exploratory: WC 22N5W7; Wildcat Gallup

11. Sec., T., R., M., on Block and Survey or Area: Sec. 8, T22N, R5W

12. County or Parish: Sandoval

13. State: NM

14. Date Spudded	15. Date T.D. Reached	16. Date Completed	17. Elevations (DF, RKB, RT, GL)*
04/26/2014	05/09/2014	☐ D & A ☑ Ready to Prod. 07/01/2014	6961' GL

18. Total Depth:	19. Plug Back T.D.:	20. Depth Bridge Plug Set:
MD 10766' TVD 5401'	MD 10720' TVD	MD TVD

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

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"	9-5/8" J-55	36	0	518'	N/A	320 sks	63 bbls	surface	35 bbls
8-3/4"	7" K-55	23	0	5666'	4311'	750 sks	239 bbls	surface	55 bbls
6-1/8"	4-1/2" P-110	11.6	4869'	10766'	N/A	430sks	108 bbls	surface	20 bbls

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	not yet							

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Gallup	4188'	10766	5762'-10617'	0.38"	534	open
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
10453'-10617'	1440bbls 70Q Foam, 25765# 20/40 Brown, 276160# 12/20 Brown Sand, 2.7mmscf N2
10177'-10397'	1489bbls 70Q Foam, 26523# 20/40 Brown, 273460# 12/20 Brown Sand, 2.6mmscf N2
9901'-10119'	1737bbls 70Q Foam, 35000# 20/40 Brown, 277180# 12/20 Brown Sand, 2.8mmscf N2
** see attachment for remaining	stages

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
7/12/14			→	0	0	0			1st oil prod only Flowtest will be reported on 1st Delivery.

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
		0	→	0	0	0		

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
			→					

ACCEPTED FOR RECORD

JUL 18 2014

FARMINGTON FIELD OFFICE
BY: William Tambekou

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

CONFIDENTIAL

NMOCD

6

Logos 701H
API# 30-043-21202
Wildcat Gallup
Logos Operating, LLC

27. Acid, Fracture, Treatment, Cement Squeeze, etc. (cont)		
Depth Interval	Stage	Amount and Type of Material
9625'-9845'	#4	1467bbls 70Q Foam, 20280# 20/40 Brown, 274200# 12/20 Brown Sand, 2.6mmscf N2
9350'-9569'	#5	1472bbls 70Q Foam, 24890# 20/40 Brown, 271640# 12/20 Brown Sand, 2.5mmscf N2
9073'-9293'	#6	1475bbls 70Q Foam, none# 20/40 Brown, 274840# 12/20 Brown Sand, 2.4mmscf N2
8797'-9017'	#7	1400bbls 70Q Foam, 24900# 20/40 Brown, 270020# 12/20 Brown Sand, 2.4mmscf N2
8521'-8738'	#8	1404bbls 70Q Foam, 25470# 20/40 Brown, 277400# 12/20 Brown Sand, 2.5mmscf N2
8245'-8465'	#9	1343bbls 70Q Foam, 24860# 20/40 Brown, 275600# 12/20 Brown Sand, 2.3mmscf N2
7969'-8189'	#10	1402bbls 70Q Foam, 25000# 20/40 Brown, 270360# 12/20 Brown Sand, 2.4mmscf N2
7693'-7913'	#11	1375bbls 70Q Foam, 24740# 20/40 Brown, 272320# 12/20 Brown Sand, 2.3mmscf N2
7417'-7637'	#12	1430bbls 70Q Foam, 24800# 20/40 Brown, 271500# 12/20 Brown Sand, 2.3mmscf N2
7141'-7361'	#13	1346bbls 70Q Foam, 26440# 20/40 Brown, 272700# 12/20 Brown Sand, 2.2mmscf N2
6865'-7085'	#14	1290bbls 70Q Foam, 26160# 20/40 Brown, 270860# 12/20 Brown Sand, 2.4mmscf N2
6589'-6809'	#15	1334bbls 70Q Foam, 23740# 20/40 Brown, 273800# 12/20 Brown Sand, 2.5mmscf N2
6314'-6533'	#16	1316bbls 70Q Foam, 26000# 20/40 Brown, 273240# 12/20 Brown Sand, 2.2mmscf N2
6037'-6257'	#17	1551bbls 70Q Foam, 24084# 20/40 Brown, 275520# 12/20 Brown Sand, 2.3mmscf N2
5762'-5981'	#18	1352bbls 70Q Foam, 24084# 20/40 Brown, 271320# 12/20 Brown Sand, 2.5mmscf N2

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.)*

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
Ojo Alamo	1359				
Kirtland	1488				
Fruitland	--				
Pictured Cliffs	1896				
Chacra	2311				
Cliff House	3399				
Menefee	3415				
Point Lookout	4039				
Mancos	4188				
Gallup	5216				
Greenhorn					
Graneros					
Dakota					

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)* Tamra Sessions Title Operations Technician

Signature Tamra Sessions Date 07/16/2014

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)

Form 3160-4
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
JUL 14 2014

FORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2014

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
Jicarilla Apache Lease 424

1a. Type of Well ☑ Oil Well ☐ 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
Jicarilla Apache Nation

7. Unit or CA Agreement Name and No.

2. Name of Operator
Logos Operating, LLC

8. Lease Name and Well No.
Logos #701H

3. Address 4001 North Butler Ave, Building 7101
Farmington, NM 87401

3a. Phone No. *(include area code)*
505-330-9333

9. API Well No.
30-043-21219 – 0051

OIL CONS. DIV DIST. 3
JUL 16 2014

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**
At surface 450' FNL & 510' FWL, UL D

At top prod. interval reported below 662' FNL & 22' FEL, UL H; Sec 7, T22N, R5W

At total depth 664' FNL & 252' FWL, UL D; Sec 7, T22N, R5W (Loc of Bot perf is 659' FNL & 347' FWL)

10. Field and Pool or Exploratory
WC 22N5W7; Wildcat Gallup

11. Sec., T., R., M., on Block and Survey or Area Sec. 8, T22N, R5W

12. County or Parish
Sandoval

13. State
NM

14. Date Spudded	15. Date T.D. Reached	16. Date Completed	17. Elevations (DF, RKB, RT, GL)*
04/26/2014	05/09/2014	☐ D & A ☑ Ready to Prod. 07/01/2014	6961' GL

18. Total Depth:	19. Plug Back T.D.:	20. Depth Bridge Plug Set:
MD 10766' TVD 5403'	MD 10720' TVD	MD TVD

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

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"	9-5/8" J-55	36	0	518'	N/A	320 sks	63 bbls	surface	35 bbls
8-3/4"	7" K-55	23	0	5666'	4311'	750 sks	239 bbls	surface	55 bbls
6-1/8"	4-1/2" P-110	11.6	5298' 4869	10766'	N/A	430sks	108 bbls	surface	20 bbls

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	not yet							

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Gallup	4188'	10766	5762'-10617'	0.38"	534	open
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
10453'-10617'	1440bbls 70Q Foam, 25765# 20/40 Brown, 276160# 12/20 Brown Sand, 2.7mmscf N2
10177'-10397'	1489bbls 70Q Foam, 26523# 20/40 Brown, 273460# 12/20 Brown Sand, 2.6mmscf N2
9901'-10119'	1737bbls 70Q Foam, 35000# 20/40 Brown, 277180# 12/20 Brown Sand, 2.8mmscf N2
** see attachment for remaining	stages

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
				0	0	0			Flowtest will be reported on 1st Delivery.

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
		0		0	0	0		

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)

NMOCD

CONFIDENTIAL

Logos 701H
API# 30-043-21202
Wildcat Gallup
Logos Operating, LLC

27. Acid, Fracture, Treatment, Cement Squeeze, etc. (cont)		
Depth Interval	Stage	Amount and Type of Material
9625'-9845'	#4	1467bbls 70Q Foam, 20280# 20/40 Brown, 274200# 12/20 Brown Sand, 2.6mmscf N2
9350'-9569'	#5	1472bbls 70Q Foam, 24890# 20/40 Brown, 271640# 12/20 Brown Sand, 2.5mmscf N2
9073'-9293'	#6	1475bbls 70Q Foam, none# 20/40 Brown, 274840# 12/20 Brown Sand, 2.4mmscf N2
8797'-9017'	#7	1400bbls 70Q Foam, 24900# 20/40 Brown, 270020# 12/20 Brown Sand, 2.4mmscf N2
8521'-8738'	#8	1404bbls 70Q Foam, 25470# 20/40 Brown, 277400# 12/20 Brown Sand, 2.5mmscf N2
8245'-8465'	#9	1343bbls 70Q Foam, 24860# 20/40 Brown, 275600# 12/20 Brown Sand, 2.3mmscf N2
7969'-8189'	#10	1402bbls 70Q Foam, 25000# 20/40 Brown, 270360# 12/20 Brown Sand, 2.4mmscf N2
7693'-7913'	#11	1375bbls 70Q Foam, 24740# 20/40 Brown, 272320# 12/20 Brown Sand, 2.3mmscf N2
7417'-7637'	#12	1430bbls 70Q Foam, 24800# 20/40 Brown, 271500# 12/20 Brown Sand, 2.3mmscf N2
7141'-7361'	#13	1346bbls 70Q Foam, 26440# 20/40 Brown, 272700# 12/20 Brown Sand, 2.2mmscf N2
6865'-7085'	#14	1290bbls 70Q Foam, 26160# 20/40 Brown, 270860# 12/20 Brown Sand, 2.4mmscf N2
6589'-6809'	#15	1334bbls 70Q Foam, 23740# 20/40 Brown, 273800# 12/20 Brown Sand, 2.5mmscf N2
6314'-6533'	#16	1316bbls 70Q Foam, 26000# 20/40 Brown, 273240# 12/20 Brown Sand, 2.2mmscf N2
6037'-6257'	#17	1551bbls 70Q Foam, 24084# 20/40 Brown, 275520# 12/20 Brown Sand, 2.3mmscf N2
5762'-5981'	#18	1352bbls 70Q Foam, 24084# 20/40 Brown, 271320# 12/20 Brown Sand, 2.5mmscf N2

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.)*

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
Ojo Alamo	1359				
~~Kirtland~~	~~1488~~				
Fruitland	--				
Pictured Cliffs	1896				
Chacra	2311				
Cliff House	3399				
Menefee	3415				
Point Lookout	4039				
Mancos	4188				
Gallup	5216				
Greenhorn					
Graneros					
Dakota					

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)* Tamra Sessions Title Operations Technician

Signature Date 07/14/2014

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)