

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-104  
Revised August 1, 2011

Submit one copy to appropriate District Office

AMENDED REPORT

**I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**

<sup>1</sup> Operator name and Address <b>COG Operating LLC 2208 W. Main Street Artesia, NM 88210</b>		<sup>2</sup> OGRID Number <b>229137</b>
		<sup>3</sup> Reason for Filing Code/ Effective Date <b>NW</b>
<sup>4</sup> API Number <b>30 - 025-44092</b>	<sup>5</sup> Pool Name <b>Berry; Bone Spring, North</b>	<sup>6</sup> Pool Code <b>5535</b>
<sup>7</sup> Property Code <b>319724</b>	<sup>8</sup> Property Name <b>Mas Federal Com</b>	<sup>9</sup> Well Number <b>1H</b>

**II. <sup>10</sup> Surface Location**

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
D	35	20S	34E		190	North	660	West	Lea

**<sup>11</sup> Bottom Hole Location**

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
M	35	20S	34E		202	South	675	West	Lea
<sup>12</sup> Lse Code F	<sup>13</sup> Producing Method Code F	<sup>14</sup> Gas Connection Date 4/5/18	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date				

**III. Oil and Gas Transporters**

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> O/G/W
	<b>Alpha Crude Connector Pipeline</b>	<b>O</b>
<b>24650</b>	<b>Targa Midstream Services, LP 1000 Louisiana - Ste 4700 Houston, TX 77002</b>	<b>G</b>

**IV. Well Completion Data**

<sup>21</sup> Spud Date 12/20/17	<sup>22</sup> Ready Date 4/4/18	<sup>23</sup> TD 15934' <i>11338</i>	<sup>24</sup> PBTD 15825'	<sup>25</sup> Perforations 11429-15802'	<sup>26</sup> DHC, MC
<sup>27</sup> Hole Size	<sup>28</sup> Casing & Tubing Size	<sup>29</sup> Depth Set	<sup>30</sup> Sacks Cement		
17 1/2"	13 3/8"	1706'	1390		
12 1/4"	9 5/8"	5837'	3270		
8 3/4"	5 1/2"	15902'	2390		
	2 7/8"	10594'			

**V. Well Test Data**

<sup>31</sup> Date New Oil 4/5/18	<sup>32</sup> Gas Delivery Date 4/5/18	<sup>33</sup> Test Date 4/5/18	<sup>34</sup> Test Length 24 Hrs	<sup>35</sup> Tbg. Pressure 2200#	<sup>36</sup> Csg. Pressure 1250#
<sup>37</sup> Choke Size 22/64"	<sup>38</sup> Oil 956	<sup>39</sup> Water 173	<sup>40</sup> Gas 1986	<sup>41</sup> Test Method Flowing	

<sup>42</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Stormi Davis*

Printed name:  
Stormi Davis

Title:  
Regulatory Analyst

E-mail Address:  
[sdavis@concho.com](mailto:sdavis@concho.com)

Date:  
4/17/18

Phone:  
575-748-6946

OIL CONSERVATION DIVISION	
Approved by:	<i>Karen Sharp</i>
Title:	<i>Staff Mgr</i>
Approval Date:	<i>4-25-18</i>

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

HOBBS OCD  
 APR 19 2018  
 RECEIVED

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Serial No. NMNM0897
2. Name of Operator COG OPERATING LLC	6. If Indian, Allottee or Tribe Name
3a. Address 2208 WEST MAIN ARTESIA, NM 88210	7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 575-748-6946	8. Well Name and No. MAS FEDERAL COM 1H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 35 T20S R34E Mer NMP NWNW 190FNL 660FWL	9. API Well No. 30-025-44092
10. Field and Pool or Exploratory Area BERRY; BONE SPRING, N	11. County or Parish, State LEA COUNTY, NM

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

2/9/18 Install test plug and test to 9500# for 15 mins.  
 2/13/18 to 3/5/18 Set CBP @ 15825' & test to 6078#. Test csg to 8523#. Good test. Perf 11429-15802' (1232). Acdz w/83,160 gals 7 1/2%; frac w/8,791,483# sand and 7,720,225 gals fluid.

3/18/18 to 3/19/18 Drilled out CFP's and clean down to CBP @ 15825'.  
 3/24/18 Set 2 7/8" 6.5# L-80 tbg @ 10594' & pkr @ 10577'.

4/4/18 Began flowing back & testing.

4/5/18 Date of first production.

14. I hereby certify that the foregoing is true and correct.  
**Electronic Submission #411884 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Hobbs**

Name (Printed/Typed) <b>STORMI DAVIS</b>	Title <b>PREPARER</b>
Signature (Electronic Submission)	Date <b>04/17/2018</b>

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By _____	Title _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office _____

Pending BLM approvals will  
 subsequently be reviewed  
 and scanned

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

HOBBS OCD  
APR 19 2018  
RECEIVED

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		5. Lease Serial No. NMNM0897	
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____		6. If Indian, Allottee or Tribe Name	
2. Name of Operator COG OPERATING LLC		7. Unit or CA Agreement Name and No.	
Contact: STORMI DAVIS E-Mail: sdavis@concho.com		8. Lease Name and Well No. MAS FEDERAL COM 1H	
3. Address 2208 WEST MAIN ARTESIA, NM 88210		9. API Well No. 30-025-44092	
3a. Phone No. (include area code) Ph: 575-748-6946		10. Field and Pool, or Exploratory BERRY; BONE SPRING, N	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 35 T20S R34E Mer NMP At surface NWNW 190FNL 660FWL At top prod interval reported below Sec 35 T20S R34E Mer NMP At total depth SWSW 202FSL 675FWL		11. Sec., T., R., M., or Block and Survey or Area Sec 35 T20S R34E Mer NMP	
12. County or Parish LEA		13. State NM	
14. Date Spudded 12/20/2017		15. Date T.D. Reached 01/11/2018	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 04/04/2018		17. Elevations (DF, KB, RT, GL)* 3722 GL	
18. Total Depth: MD 15934 TVD 11338		19. Plug Back T.D.: MD 15825 TVD 11336	
20. Depth Bridge Plug Set: MD 15825 TVD 11336		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) NONE	
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 analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis)			

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
17.500	13.375 J55	54.5	0	1706		1390		0	
12.250	9.625 L80	40.0	0	5837	3433	3270		0	
8.750	5.500 P110	17.0	0	15902		2390		0	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	10594	10577						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	11429	15802	11429 TO 15802	0.430	1232	OPEN
B)						
C)						
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
11429 TO 15802	SEE ATTACHED

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

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
04/05/2018	04/05/2018	24	→	956.0	1986.0	173.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
22/64	2200 SI	1250.0	→	956	1986	173		POW	

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		
			→						

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

ELECTRONIC SUBMISSION #411893 VERIFIED BY THE BLM WELL INFORMATION S'Y  
\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED

Pending BLM approvals will subsequently be reviewed and scanned

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.)  
SOLD

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
LAMAR	5747	5793		RUSTLER	1606
BELL CANYON	5794	5837		TOS	1702
CHERRY CANYON	5838	6796		BOS	5553
BRUSHY CANYON	6797	8587		LAMAR	5747
BONE SPRING LM	8588	9725		BELL CANYON	5794
1ST BONE SPRING	9726	10255		CHERRY CANYON	5838
2ND BONE SPRING	10256	11113		BRUSHY CANYON	6797
3RD BONE SPRING	11114	11338		BONE SPRING LM	8588

32. Additional remarks (include plugging procedure):

Additional Tops:

- 1st Bone Spring: 9726'
- 2nd Bone Spring: 10256'
- 3rd Bone Spring: 11114'

Survey and Perfs/Stimulation are attached.

33. Circle enclosed attachments:

- 1. Electrical/Mechanical Logs (1 full set req'd.)
- 2. Geologic Report
- 3. DST Report
- 4. Directional Survey
- 5. Sundry Notice 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):

**Electronic Submission #411893 Verified by the BLM Well Information System.  
For COG OPERATING LLC, sent to the Hobbs**

Name (please print) STORMI DAVIS Title PREPARER

Signature (Electronic Submission) Date 04/17/2018

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.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

### MAS FEDERAL COM #1H (30-025-44092)

<u>Perfs</u>	<u>7 1/2% Acid (Gal)</u>	<u>Sand (#)</u>	<u>Fluid (Gal)</u>
1	1512	312580	286146
2	3024	313570	278166
3	3024	313450	335958
4	3024	312340	275142
5	3024	312260	272622
6	3024	312160	272664
7	3024	312190	275616
8	3024	313920	276009
9	3024	312280	273168
10	3024	312980	270690
11	3024	312120	272076
12	3024	313230	274092
13	3024	312910	275016
14	3024	312950	272328
15	3024	315630	272540
16	3024	312310	269598
17	3024	312850	271313
18	3024	312070	288674
19	3024	313560	275940
20	3024	309400	268040
21	3024	312870	271572
22	3024	311350	266952
23	3024	312070	267498
24	3024	313670	272412
25	3024	318520	270354
26	3024	314383	269346
27	3024	312120	267918
28	3024	341740	278376
<b>Totals</b>	<b>83160</b>	<b>8791483</b>	<b>7720225</b>

MAS FEDERAL COM 1H

	Stage 1	Distance Between Perfs	Shots	Stage 2	Distance Between Perfs	Shots	Stage 3	Distance Between Perfs	Shots	Stage 4	Distance Between Perfs	Shots	Stage 5	Distance Between Perfs	Shots
From Bottom to Top	15,800	20	6	15,643	20	6	15,486	20	6	15,321	28	6	15,171	24	6
	15,780	19	6	15,624	20	6	15,467	20	6	15,310	20	6	15,153	19	6
	15,761	20	6	15,604	20	6	15,447	19	6	15,290	23	6	15,134	20	6
	15,741	19	6	15,584	19	6	15,428	20	6	15,267	16	6	15,114	20	6
	15,722	20	6	15,565	20	6	15,408	19	6	15,251	24	5	15,094	19	5
	15,702	20	5	15,545	19	5	15,388	19	5	15,227	15	5	15,075	20	5
	15,682	19	5	15,526	20	5	15,369	20	5	15,212	17	5	15,055	19	5
	15,663	5	5	15,506	5	5	15,349	5	5	15,195	5	5	15,036	5	5
	Plug to Plug	172	44	Plug to Plug	157	44	Plug to Plug	166	44	Plug to Plug	150	44	Plug to Plug	164	44
Frac Plug	15,825	Total Shots	Frac Plug	15,653	Total Shots	Frac Plug	15,496	Total Shots	Frac Plug	15,330	Total Shots	Frac Plug	15,160	Total Shots	

	Stage 6	Distance Between Perfs	Shots	Stage 7	Distance Between Perfs	Shots	Stage 8	Distance Between Perfs	Shots	Stage 9	Distance Between Perfs	Shots	Stage 10	Distance Between Perfs	Shots
From Bottom to Top	15,008	28	6	14,855	24	6	14,704	18	6	14,546	19	6	14,381	27	6
	14,986	19	6	14,840	20	6	14,683	20	6	14,521	15	6	14,369	19	6
	14,977	20	6	14,820	20	6	14,663	19	6	14,506	39	6	14,350	20	6
	14,957	21	6	14,800	17	6	14,644	20	6	14,467	39	6	14,330	20	6
	14,936	18	5	14,783	22	5	14,624	20	5	14,428	20	5	14,310	19	5
	14,918	20	5	14,761	19	5	14,604	19	5	14,408	5	5	14,291	20	5
	14,898	19	5	14,742	20	5	14,585	20	5				14,271	19	5
	14,879	5	5	14,722	5	5	14,565	5	5				14,252	5	5
	Plug to Plug	144	44	Plug to Plug	160	44	Plug to Plug	157	44	Plug to Plug	164	34	Plug to Plug	163	44
Frac Plug	15,018	Total Shots	Frac Plug	14,872	Total Shots	Frac Plug	14,712	Total Shots	Frac Plug	14,555	Total Shots	Frac Plug	14,391	Total Shots	

	Stage 11	Distance Between Perfs	Shots	Stage 12	Distance Between Perfs	Shots	Stage 13	Distance Between Perfs	Shots	Stage 14	Distance Between Perfs	Shots	Stage 15	Distance Between Perfs	Shots
From Bottom to Top	14,218	34	6	14,075	20	6	13,916	25	6	13,749	32	6	13,605	19	6
	14,205	20	6	14,056	20	6	13,899	20	6	13,742	20	6	13,585	19	6
	14,185	12	6	14,036	20	6	13,879	19	6	13,722	19	6	13,566	20	6
	14,173	18	6	14,016	19	6	13,860	20	6	13,703	20	6	13,546	20	6
	14,155	21	5	13,997	23	5	13,840	20	5	13,683	19	5	13,526	19	5
	14,134	20	5	13,974	16	5	13,820	19	5	13,664	20	5	13,507	20	5
	14,114	19	5	13,958	17	5	13,801	20	5	13,644	20	5	13,487	23	5
	14,095	5	5	13,941	5	5	13,781	5	5	13,624	5	5	13,464	5	5
	Plug to Plug	143	44	Plug to Plug	159	44	Plug to Plug	168	44	Plug to Plug	143	44	Plug to Plug	157	44
Frac Plug	14,228	Total Shots	Frac Plug	14,085	Total Shots	Frac Plug	13,926	Total Shots	Frac Plug	13,758	Total Shots	Frac Plug	13,615	Total Shots	

	Stage 16	Distance Between Perfs	Shots	Stage 17	Distance Between Perfs	Shots	Stage 18	Distance Between Perfs	Shots	Stage 19	Distance Between Perfs	Shots	Stage 20	Distance Between Perfs	Shots
From Bottom to Top	13,450	14	6	13,181	130	6	13,111	43	6	12,973	24	6	12,821	24	6
	13,434	25	6	13,272	20	6	13,100	14	6	12,958	20	6	12,803	21	6
	13,409	20	6	13,252	20	6	13,086	14	6	12,938	21	6	12,782	20	6
	13,389	19	6	13,232	19	6	13,072	16	6	12,917	18	6	12,762	20	6
	13,370	18	5	13,213	20	5	13,056	20	5	12,899	23	5	12,742	19	5
	13,352	22	5	13,193	23	5	13,036	19	5	12,876	16	5	12,723	20	5
	13,330	19	5	13,170	16	5	13,017	20	5	12,860	15	5	12,703	19	5
	13,311	5	5	13,154	5	5	12,997	5	5	12,845	5	5	12,684	5	5
	Plug to Plug	162	44	Plug to Plug	170	44	Plug to Plug	139	44	Plug to Plug	156	44	Plug to Plug	169	44
Frac Plug	13,458	Total Shots	Frac Plug	13,296	Total Shots	Frac Plug	13,126	Total Shots	Frac Plug	12,987	Total Shots	Frac Plug	12,831	Total Shots	

	Stage 21	Distance Between Perfs	Shots	Stage 22	Distance Between Perfs	Shots	Stage 23	Distance Between Perfs	Shots	Stage 24	Distance Between Perfs	Shots	Stage 25	Distance Between Perfs	Shots
From Bottom to Top	12,652	32	6	12,500	27	6	12,347	23	6	12,184	26	6	12,027	29	6
	12,644	19	6	12,488	17	6	12,331	20	6	12,154	39	6	12,017	19	6
	12,625	20	6	12,471	23	6	12,311	19	6	12,115	19	6	11,998	20	6
	12,605	21	6	12,448	19	6	12,292	20	6	12,096	20	6	11,978	20	6
	12,584	18	5	12,429	20	5	12,272	20	5	12,076	20	5	11,958	19	5
	12,566	23	5	12,409	19	5	12,252	19	5	12,056	5	5	11,939	23	5
	12,543	16	5	12,390	20	5	12,233	23	5				11,916	16	5
	12,527	5	5	12,370	5	5	12,210	5	5				11,900	5	5
	Plug to Plug	145	44	Plug to Plug	157	44	Plug to Plug	160	44	Plug to Plug	163	34	Plug to Plug	147	44
Frac Plug	12,662	Total Shots	Frac Plug	12,517	Total Shots	Frac Plug	12,360	Total Shots	Frac Plug	12,200	Total Shots	Frac Plug	12,037	Total Shots	

	Stage 26	Distance Between Perfs	Shots	Stage 27	Distance Between Perfs	Shots	Stage 28	Distance Between Perfs	Shots	Stage 29	Distance Between Perfs	Shots	Stage 30	Distance Between Perfs	Shots
From Bottom to Top	11,874	26	6	11,723	20	6	11,553	33	6		11429			0	
	11,860	27	6	11,707	23	6	11,543	16	6						
	11,833	12	6	11,684	17	6	11,527	19	6						
	11,821	19	6	11,667	22	6	11,508	20	6						
	11,802	20	5	11,645	20	5	11,488	20	5						
	11,782	20	5	11,625	19	5	11,468	19	5						
	11,762	19	5	11,606	20	5	11,449	20	5						
	11,743	5	5	11,586	5	5	11,429	5	5						
	Plug to Plug	157	44	Plug to Plug	166	44	Plug to Plug	59	44	Plug to Plug	0	0	Plug to Plug	0	0
Frac Plug	11,890	Total Shots	Frac Plug	11,733	Total Shots	Frac Plug	11,567	Total Shots	Frac Plug		Total Shots	Frac Plug		Total Shots	