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

HOBBS OCD
OCT 1 0 2017
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Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

[1] Operator Name and Address	[2] OGRID Number
COG Production LLC 2208 W. Main Street Artesia, NM 88210	217955
	[3] Reason for Filing Code/ Effective Date NW

[4] API Number	[5] Pool Name	[6] Pool Code
30 – 025-43174	WC-025 G-06 S253206M; Bone Spring	97899

[7] Property Code	[8] Property Name	[9] Well Number
40143	Windward Federal	5H

II. [10] Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
1	30	24S	32E		210	North	530	West	Lea

[11] 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
4	31	24S	32E		63	South	335	West	Lea

[12] Lse Code	[13] Producing Method Code	[14] Gas Connection Date	[15] C-129 Permit Number	[16] C-129 Effective Date	[17] C-129 Expiration Date
F	F	8/22/17			

III. Oil and Gas Transporters

[18] Transporter OGRID	[19] Transporter Name and Address	[20] O/G/W
	Alpha Crude Connector Pipeline	O
	Lucid Energy	G

IV. Well Completion Data

[21] Spud Date	[22] Ready Date	[23] TD	[24] PBTD	[25] Perforations	[26] DHC, MC
11/15/16	8/20/17	19260'	19125'	9427-19105'	

[27] Hole Size	[28] Casing & Tubing Size	[29] Depth Set	[30] Sacks Cement
17 1/2"	13 3/8"	806'	1000
12 1/4"	9 5/8"	4555'	1475
8 3/4"	5 1/2"	19225'	3650
	2 7/8"	8773'	

V. Well Test Data

[31] Date New Oil	[32] Gas Delivery Date	[33] Test Date	[34] Test Length	[35] Tbg. Pressure	[36] Csg. Pressure
8/21/17	8/22/17	8/22/17	24 Hrs	500#	
[37] Choke Size	**[38] Oil**	**[39] Water**	**[40] Gas**		**[41] Test Method**
	108	2522	743		Flowing

[42] 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

Date: 10/5/17

Phone: 575-748-6946

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date: 10/14/17

C-104 TEMPORARY APPROVAL pending receipt of approved BLM forms attached

Form 3160-5
(June 2015)

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.

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SUBMIT IN TRIPLICATE - Other instructions on page 2

5. Lease Serial No.
NMNM120908

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
WINDWARD FEDERAL 5H

2. Name of Operator
COG PRODUCTION LLC
Contact: STORMI DAVIS
E-Mail: sdavis@concho.com

9. API Well No.
30-025-43174

3a. Address
2208 WEST MAIN
ARTESIA, NM 88210

3b. Phone No. (include area code)
Ph: 575-748-6946

10. Field and Pool or Exploratory Area
WILDCAT; BONE SPRING

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 30 T24S R32E Mer NMP NWNW 210FNL 530FWL

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			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ 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.

1/9/17 to 4/4/17 Test csg to 8500# for 30 mins. Good test. Perf 19155-19165' (60). Injection test.

5/2/17 to 7/1/17 Ran CBL. TOC @ 4510'. Set CBP @ 19125'. Test to 8407#. Perf 9427-19105' (2816). Acdz w/94,665 gal 7 1/2% and 97,313 gal 15%; Frac w/19,206,407# sand & 23,813,408 gal fluid.

8/3/17 to 8/6/17 Drilled out CFP's. Clean down to CBP @ 19125'.

8/7/17 Set 2 7/8" 6.5# L-80 tbg @ 8773' & pkr @ 8756'. Installed gas-lift system.

8/20/17 Began flowing back & testing.

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #391087 verified by the BLM Well Information System
For COG PRODUCTION LLC, sent to the Hobbs

Name *(Printed/Typed)* STORMI DAVIS — Title PREPARER

Signature (Electronic Submission) — Date 10/06/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By — Title — Date

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

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.

(Instructions on page 2)

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

Additional data for EC transaction #391087 that would not fit on the form

32. Additional remarks, continued

8/21/17 Date of first production.

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Form 3160-4
(August 2007)

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

5. Lease Serial No. NMNM120908

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

7. Unit or CA Agreement Name and No.

2. Name of Operator: COG PRODUCTION LLC
Contact: STORMI DAVIS
E-Mail: sdavis@concho.com

8. Lease Name and Well No.: WINDWARD FEDERAL 5H

3. Address: 2208 WEST MAIN, ARTESIA, NM 88210

3a. Phone No. (include area code): Ph: 575-748-6946

9. API Well No.: 30-025-43174

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface: Sec 30 T24S R32E Mer NMP NWNW Lot 1 210FNL 530FWL
At top prod interval reported below: Sec 31 T24S R32E Mer NMP
At total depth: SWSW Lot 4 63FSL 335FWL

10. Field and Pool, or Exploratory: WILDCAT; BONE SPRING

11. Sec., T., R., M., or Block and Survey or Area: Sec 30 T24S R32E Mer NMP

12. County or Parish: LEA

13. State: NM

14. Date Spudded: 11/15/2016

15. Date T.D. Reached: 12/04/2016

16. Date Completed ☐ D & A ☒ Ready to Prod. 08/20/2017

17. Elevations (DF, KB, RT, GL)*: 3539 GL

18. Total Depth: MD 19260 TVD 9140

19. Plug Back T.D.: MD 19125 TVD 9152

20. Depth Bridge Plug Set: MD 19125 TVD 9152

21. Type Electric & Other Mechanical Logs Run (Submit copy of each): NONE

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ 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	806		1000		0	
12.250	9.625 J55	40.0	0	4555		1475		0	
8.750	5.500 P110	17.0	0	19225		3650		4510	

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	8773	8756						

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	BONE SPRING	9427	19105	9427 TO 19105	0.430	2816	OPEN
B)				19155 TO 19165		60	UNDER CBP
C)							
D)							

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

Depth Interval	Amount and Type of Material
9427 TO 19105	SEE ATTACHED

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
08/21/2017	08/22/2017	24	→	108.0	743.0	2522.0			FLOWS FROM WELL

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
	500		→	108	743	2522		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. 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 reverse side)

ELECTRONIC SUBMISSION #391097 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

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	4601	4625		RUSTLER	844
BELL CANYON	4626	5540		TOS	1063
CHERRY CANYON	5541	6870		BOS	4375
BRUSHY CANYON	6871	8470		LAMAR	4601
BONE SPRING LM	8471	9248		BELL CANYON	4626
				CHERRY CANYON	5541
				BRUSHY CANYON	6871
				BONE SPRING LM	8471

32. Additional remarks (include plugging procedure):
Surveys, 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 #391097 Verified by the BLM Well Information System.
For COG PRODUCTION LLC, sent to the Hobbs

Name *(please print)* STORMI DAVIS Title PREPARER

Signature (Electronic Submission) Date 10/06/2017

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 fradulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

WINDWARD FEDERAL #5H

Perfs	7 1/2% Acid (Gal)	15% Acid (Gal)	Sand (#)	Fluid (Gal)
1	0	1500	300180	349890
2	1512	1500	301660	449094
3	1500	1500	301080	368274
4	1512	1512	302410	377076
5	1512	1512	301120	379428
6	1512	1512	301050	460530
7	1500	1512	300310	372486
8	1500	1500	301820	397590
9	1512	1500	299210	367278
10	1512	1512	302910	369306
11	1500	1512	302920	372612
12	1512	1512	301650	369390
13	1512	1512	299890	434112
14	1500	1512	300060	364170
15	1512	1500	299160	364002
16	1500	1512	303420	366732
17	1512	1512	300270	361494
18	1512	1512	300150	360738
19	1512	1500	299920	433302
20	1500	1512	301990	361818
21	1512	1512	276190	349272
22	1500	1512	299600	359592
23	1512	1512	302330	360822
24	1512	1512	300670	372834
25	1512	1512	301290	365988
26	1512	1512	302050	363006
27	1500	1890	290010	381600
28	1512	1512	300200	415884
29	1512	1512	300130	373674
30	1512	1512	298500	362250
31	1512	1512	300110	355572
32	1512	1512	301690	358176
33	1512	1512	298080	353682
34	1092	1512	300190	365106
35	1512	1512	300840	431382
36	1512	1680	302040	355404
37	1512	1512	296800	357504
38	1512	1512	302800	362166
39	1512	1512	297100	359562
40	1512	1512	302650	354690
41	1500	1554	299650	352914
42	1512	1554	303030	356454
43	1512	1512	300390	481362
44	1512	1512	301690	353010
45	1500	1512	301190	365304
46	1512	1512	300510	350658
47	1512	1512	306270	357588
48	1512	1512	296740	428610
49	1512	1512	300620	350280
50	1512	1512	299280	354438
51	1500	1512	301470	355014
52	1512	1512	302050	350154
53	1512	1512	300050	347718
54	1512	1512	301600	354060
55	1512	1512	301710	345240
56	1512	1512	300270	414120
57	1500	1512	300030	358752
58	1512	1512	296650	345282
59	1500	1512	300640	347790
60	1512	1512	301030	353010
61	1512	1512	301080	361410
62	1512	1512	300120	394506
63	1512	1512	301010	348474
64	1512	1512	294940	349776
Totals	**94,665**	**97,313**	**19,206,470**	**23,813,408**

Windward Federal #5H

	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
	19,105	38	14	18,914	77	6	18,801	19	6	18,636	33	6	18,488	29	6
From Bottom to Top	19,067	38	12	18,900	14	6	18,787	23	6	18,622	14	6	18,476	16	6
	19,029	38	10	18,886	13	6	18,764	19	6	18,608	15	6	18,460	15	6
	18,991		8	18,873	14	6	18,745	19	6	18,593	18	6	18,445	23	6
				18,859	15	5	18,726		5	18,575	20	5	18,422	18	5
				18,844	12	5	18,707	19	5	18,555	19	5	18,404	19	5
				18,832	12	5	18,688	19	5	18,536	19	5	18,385	19	5
				18,820		5	18,669		5	18,517		5	18,366		5
	Plug to Plug	203	44	Plug to Plug	111	44	Plug to Plug	167	44	Plug to Plug	148	44	Plug to Plug	152	44
	Frac Plug	19,125	Total Shots	Frac Plug	18,922	Total Shots	Frac Plug	18,811	Total Shots	Frac Plug	18,644	Total Shots	Frac Plug	18,496	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
	18,336	30	6	18,187	27	6	18,029	33	6	17,882	29	6	17,727	32	6
From Bottom to Top	18,324	17	6	18,176	19	6	18,017	17	6	17,870	16	6	17,712	16	6
	18,307	17	6	18,157	27	6	18,000	13	6	17,854	19	6	17,696	16	6
	18,290	16	6	18,130	11	6	17,987	19	6	17,835	19	6	17,680	15	6
	18,274	22	5	18,119	19	5	17,968	19	5	17,816	19	5	17,665	19	5
	18,252	19	5	18,100	19	5	17,949	19	5	17,797	19	5	17,646	19	5
	18,233	19	5	18,081	19	5	17,930	19	5	17,778	19	5	17,627	19	5
	18,214		5	18,062		5	17,911		5	17,759		5	17,608		5
	Plug to Plug	149	44	Plug to Plug	158	44	Plug to Plug	147	44	Plug to Plug	155	44	Plug to Plug	145	44
	Frac Plug	18,344	Total Shots	Frac Plug	18,195	Total Shots	Frac Plug	18,037	Total Shots	Frac Plug	17,890	Total Shots	Frac Plug	17,735	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
	17,582	26	6	17,422	34	6	17,277	28	6	17,124	29	6	16,966	35	6
From Bottom to Top	17,565	14	6	17,403	13	6	17,264	18	6	17,108	16	6	16,954	10	6
	17,551	16	6	17,390	16	6	17,246	11	6	17,092	20	6	16,944	19	6
	17,535	22	6	17,374	13	6	17,235	19	6	17,072	20	6	16,925	18	6
	17,513	19	5	17,361	18	5	17,216	25	5	17,052	13	5	16,907	24	5
	17,494	19	5	17,343	19	5	17,191	19	5	17,039	19	5	16,883	14	5
	17,475	19	5	17,324	19	5	17,172	19	5	17,020	19	5	16,869	17	5
	17,456		5	17,305		5	17,153		5	17,001		5	16,852		5
	Plug to Plug	158	44	Plug to Plug	147	44	Plug to Plug	153	44	Plug to Plug	151	44	Plug to Plug	151	44
	Frac Plug	17,590	Total Shots	Frac Plug	17,432	Total Shots	Frac Plug	17,285	Total Shots	Frac Plug	17,132	Total Shots	Frac Plug	16,981	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
	16,820	32	6	16,656	42	6	16,528	23	6	16,358	37	6	16,222	28	6
From Bottom to Top	16,810	17	6	16,636	12	6	16,509	19	6	16,345	11	6	16,207	20	6
	16,793	19	6	16,624	10	6	16,490	19	6	16,334	22	6	16,187	19	6
	16,774	19	6	16,614	14	6	16,471	19	6	16,312	12	6	16,168	19	6
	16,755	19	5	16,600	19	5	16,452	19	5	16,300	19	5	16,149	19	5
	16,736	23	5	16,581	15	5	16,433	19	5	16,281	18	5	16,130	21	5
	16,713	15	5	16,566	15	5	16,414	19	5	16,263	13	5	16,109	17	5
	16,698		5	16,551		5	16,395		5	16,250		5	16,092		5
	Plug to Plug	166	44	Plug to Plug	127	44	Plug to Plug	171	44	Plug to Plug	136	44	Plug to Plug	147	44
	Frac Plug	16,830	Total Shots	Frac Plug	16,664	Total Shots	Frac Plug	16,537	Total Shots	Frac Plug	16,366	Total Shots	Frac Plug	16,230	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
	16,069	23	6	15,910	30	6	15,752	37	6	15,598	35	6	15,461	33	6
From Bottom to Top	16,054	19	6	15,895	11	6	15,740	20	6	15,589	9	6	15,448	19	6
	16,035	19	6	15,884	19	6	15,720	15	6	15,580	19	6	15,429	19	6
	16,016	19	6	15,865	19	6	15,705	15	6	15,561	18	6	15,410	19	6
	15,997	19	5	15,846	19	5	15,690	15	5	15,543	19	5	15,391	19	5
	15,978	19	5	15,827	19	5	15,675	19	5	15,524	19	5	15,372	19	5
	15,959	19	5	15,808	19	5	15,656	23	5	15,505	11	5	15,353	13	5
	15,940		5	15,789		5	15,633		5	15,494		5	15,340		5
	Plug to Plug	163	44	Plug to Plug	160	44	Plug to Plug	150	44	Plug to Plug	134	44	Plug to Plug	156	44
	Frac Plug	16,083	Total Shots	Frac Plug	15,920	Total Shots	Frac Plug	15,760	Total Shots	Frac Plug	15,610	Total Shots	Frac Plug	15,476	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
	15,312	28	6	15,162	21	6	15,000	31	6	14,855	24	6	14,709	29	6
From Bottom to Top	15,296	19	6	15,145	19	6	14,988	14	6	14,842	19	6	14,692	21	6
	15,277	19	6	15,126	19	6	14,974	18	6	14,823	19	6	14,671	19	6
	15,258	19	6	15,107	19	6	14,956	20	6	14,804	19	6	14,652	19	6
	15,239	19	5	15,088	19	5	14,936	19	5	14,785	19	5	14,633	19	5
	15,220	19	5	15,069	19	5	14,917	19	5	14,766	19	5	14,614	19	5
	15,201	18	5	15,050	19	5	14,898	19	5	14,747	9	5	14,595	19	5
	15,183		5	15,031		5	14,879		5	14,738		5	14,576		5
	Plug to Plug	150	44	Plug to Plug	162	44	Plug to Plug	138	44	Plug to Plug	152	44	Plug to Plug	156	44
	Frac Plug	15,320	Total Shots	Frac Plug	15,170	Total Shots	Frac Plug	15,008	Total Shots	Frac Plug	14,870	Total Shots	Frac Plug	14,718	Total Shots

	Stage 31	Distance Between Perfs	Shots	Stage 32	Distance Between Perfs	Shots	Stage 33	Distance Between Perfs	Shots	Stage 34	Distance Between Perfs	Shots	Stage 35	Distance Between Perfs	Shots
	14,545	31	6	14,396	29	6	14,232	41	6	14,095	29	6	13,940	35	6
From Bottom to Top	14,530	11	6	14,387	19	6	14,220	10	6	14,084	19	6	13,928	15	6
	14,519	19	6	14,368	19	6	14,210	13	6	14,065	19	6	13,913	19	6
	14,500	18	6	14,349	19	6	14,197	19	6	14,046	19	6	13,894	19	6
	14,482	19	5	14,330	19	5	14,178	21	5	14,027	19	5	13,875	19	5
	14,463	19	5	14,311	19	5	14,157	17	5	14,008	14	5	13,856	19	5
	14,444	19	5	14,292	19	5	14,140	16	5	13,994	19	5	13,837	19	5
	14,425		5	14,273		5	14,124		5	13,975		5	13,818		5
	Plug to Plug	152	44	Plug to Plug	170	44	Plug to Plug	135	44	Plug to Plug	155	44	Plug to Plug	152	44
	Frac Plug	14,562	Total Shots	Frac Plug	14,410	Total Shots	Frac Plug	14,240	Total Shots	Frac Plug	14,105	Total Shots	Frac Plug	13,950	Total Shots

	Stage 36	Distance Between Perfs	Shots	Stage 37	Distance Between Perfs	Shots	Stage 38	Distance Between Perfs	Shots	Stage 39	Distance Between Perfs	Shots	Stage 40	Distance Between Perfs	Shots
	13,790	28	6	13,640	27	6	13,475	40	6	13,332	28	6	13,172	40	6
From Bottom to Top	13,780	18	6	13,629	19	6	13,465	17	6	13,316	14	6	13,158	18	6
	13,762	19	6	13,610	19	6	13,448	9	6	13,302	14	6	13,140	13	6
	13,743	17	6	13,591	19	6	13,439	19	6	13,288	19	6	13,127	17	6
	13,726	21	5	13,572	19	5	13,420	18	5	13,269	19	5	13,110	16	5
	13,705	19	5	13,553	19	5	13,402	19	5	13,250	22	5	13,094	19	5
	13,686	19	5	13,534	19	5	13,383	23	5	13,228	16	5	13,075	13	5
	13,667		5	13,515		5	13,360		5	13,212		5	13,062		5
	Plug to Plug	148	44	Plug to Plug	160	44	Plug to Plug	150	44	Plug to Plug	160	44	Plug to Plug	140	44
	Frac Plug	13,798	Total Shots	Frac Plug	13,650	Total Shots	Frac Plug	13,490	Total Shots	Frac Plug	13,340	Total Shots	Frac Plug	13,180	Total Shots

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	Stage 41	Distance Between Perfs	Shots	Stage 42	Distance Between Perfs	Shots	Stage 43	Distance Between Perfs	Shots	Stage 44	Distance Between Perfs	Shots	Stage 45	Distance Between Perfs	Shots
From Bottom to Top	13,032	30	6	12,874	35	6	12,730	27	6	12,580	26	6	12,426	28	6
	13,015	15	6	12,861	17	6	12,715	15	6	12,564	15	6	12,410	16	6
	13,000	15	6	12,844	14	6	12,700	18	6	12,549	25	6	12,394	16	6
	12,985	23	6	12,830	16	6	12,682	16	6	12,524	13	6	12,378	17	6
	12,962	17	5	12,814	17	5	12,666	22	5	12,511	19	5	12,361	21	5
	12,945	15	5	12,797	21	5	12,644	19	5	12,492	19	5	12,340	18	5
	12,930	21	5	12,776	19	5	12,625	19	5	12,473	19	5	12,322	19	5
	12,909		5	12,757		5	12,606		5	12,454		5	12,303		5
	Plug to Plug	150	44	Plug to Plug	152	44	Plug to Plug	150	44	Plug to Plug	154	44	Plug to Plug	153	44
	Frac Plug	13,040	Total Shots	Frac Plug	12,890	Total Shots	Frac Plug	12,738	Total Shots	Frac Plug	12,588	Total Shots	Frac Plug	12,434	Total Shots

	Stage 46	Distance Between Perfs	Shots	Stage 47	Distance Between Perfs	Shots	Stage 48	Distance Between Perfs	Shots	Stage 49	Distance Between Perfs	Shots	Stage 50	Distance Between Perfs	Shots
From Bottom to Top	12,273	30	6	12,118	33	6	11,971	28	6	11,820	28	6	11,660	45	6
	12,260	14	6	12,104	20	6	11,956	13	6	11,810	19	6	11,650	11	6
	12,246	17	6	12,084	16	6	11,943	19	6	11,791	19	6	11,639	18	6
	12,229	21	6	12,068	16	6	11,924	19	6	11,772	19	6	11,621	19	6
	12,208	19	5	12,052	17	5	11,905	19	5	11,753	19	5	11,602	22	5
	12,189	19	5	12,035	17	5	11,886	19	5	11,734	19	5	11,580	16	5
	12,170	19	5	12,018	19	5	11,867	19	5	11,715	10	5	11,564	14	5
	12,151		5	11,999		5	11,848		5	11,705		5	11,550		5
	Plug to Plug	155	44	Plug to Plug	147	44	Plug to Plug	149	44	Plug to Plug	150	44	Plug to Plug	150	44
	Frac Plug	12,281	Total Shots	Frac Plug	12,126	Total Shots	Frac Plug	11,979	Total Shots	Frac Plug	11,830	Total Shots	Frac Plug	11,680	Total Shots

	Stage 51	Distance Between Perfs	Shots	Stage 52	Distance Between Perfs	Shots	Stage 53	Distance Between Perfs	Shots	Stage 54	Distance Between Perfs	Shots	Stage 55	Distance Between Perfs	Shots
From Bottom to Top	11,522	28	6	11,366	27	6	11,205	35	6	11,066	34	6	10,912	26	6
	11,507	19	6	11,355	25	6	11,190	15	6	11,052	19	6	10,901	21	6
	11,488	19	6	11,330	20	6	11,175	10	6	11,033	19	6	10,880	17	6
	11,469	19	6	11,310	20	6	11,165	18	6	11,014	20	6	10,863	19	6
	11,450	20	5	11,290	20	5	11,147	15	5	10,994	18	5	10,844	14	5
	11,430	18	5	11,270	20	5	11,132	17	5	10,976	16	5	10,830	24	5
	11,412	19	5	11,250	10	5	11,115	15	5	10,960	22	5	10,806	16	5
	11,393		5	11,240		5	11,100		5	10,938		5	10,790		5
	Plug to Plug	156	44	Plug to Plug	150	44	Plug to Plug	150	44	Plug to Plug	154	44	Plug to Plug	150	44
	Frac Plug	11,530	Total Shots	Frac Plug	11,374	Total Shots	Frac Plug	11,224	Total Shots	Frac Plug	11,074	Total Shots	Frac Plug	10,920	Total Shots

	Stage 56	Distance Between Perfs	Shots	Stage 57	Distance Between Perfs	Shots	Stage 58	Distance Between Perfs	Shots	Stage 59	Distance Between Perfs	Shots	Stage 60	Distance Between Perfs	Shots
From Bottom to Top	10,760	30	6	10,612	28	6	10,456	28	6	10,313	19	6	10,140	41	6
	10,749	19	6	10,597	19	6	10,442	18	6	10,294	19	6	10,115	15	6
	10,730	19	6	10,578	22	6	10,424	16	6	10,275	15	6	10,100	15	6
	10,711	21	6	10,556	15	6	10,408	17	6	10,260	23	6	10,085	15	6
	10,690	17	5	10,541	17	5	10,391	21	5	10,237	17	5	10,070	10	5
	10,673	18	5	10,524	21	5	10,370	19	5	10,220	21	5	10,060	15	5
	10,655	15	5	10,503	19	5	10,351	19	5	10,199	18	5	10,045	16	5
	10,640		5	10,484		5	10,332		5	10,181		5	10,029		5
	Plug to Plug	150	44	Plug to Plug	156	44	Plug to Plug	141	44	Plug to Plug	173	44	Plug to Plug	140	44
	Frac Plug	10,770	Total Shots	Frac Plug	10,620	Total Shots	Frac Plug	10,464	Total Shots	Frac Plug	10,323	Total Shots	Frac Plug	10,150	Total Shots

	Stage 61	Distance Between Perfs	Shots	Stage 62	Distance Between Perfs	Shots	Stage 63	Distance Between Perfs	Shots	Stage 64	Distance Between Perfs	Shots	Stage 65	Distance Between Perfs	Shots
From Bottom to Top	10,002	27	6	9,837	40	6	9,696	30	6	9,538	36			9427	
	9,986	14	6	9,823	13	6	9,681	16	6	9,525	20				
	9,972	18	6	9,810	15	6	9,665	15	6	9,505	15				
	9,954	20	6	9,795	12	6	9,650	19	6	9,490	14				
	9,934	19	5	9,783	19	5	9,631	19	5	9,476	15				
	9,915	19	5	9,764	19	5	9,612	19	5	9,461	19				
	9,896	19	5	9,745	19	5	9,593	19	5	9,442	15				
	9,877		5	9,726		5	9,574		5	9,427					
	Plug to Plug	165	44	Plug to Plug	141	44	Plug to Plug	158	44	Plug to Plug	56	0	Plug to Plug	0	0
	Frac Plug	10,010	Total Shots	Frac Plug	9,845	Total Shots	Frac Plug	9,704	Total Shots	Frac Plug	9,546	Total Shots	Frac Plug		Total Shots