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

HOBBS OCD
SEP 29 2017
RECEIVED

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

[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 – 025-43465	WC-025 G-06 S253206M; Bone Spring	97899

[7] Property Code	[8] Property Name	[9] Well Number
40143	Windward Federal	6H

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	560	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		247	South	1021	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	8/23/17			

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
12/8/16	12/29/16	18961'	18845'	9398-18815'	

[27] Hole Size	[28] Casing & Tubing Size	[29] Depth Set	[30] Sacks Cement
17 1/2"	13 3/8"	810'	1000
12 1/4"	9 5/8"	4530'	1500
8 3/4"	5 1/2"	18953'	3350
	2 7/8"	8568'	

V. Well Test Data

[31] Date New Oil	[32] Gas Delivery Date	[33] Test Date	[34] Test Length	[35] Tbg. Pressure	[36] Csg. Pressure
8/23/17	8/23/17	8/23/17	24 Hrs	730#	250#
[37] Choke Size	**[38] Oil**	**[39] Water**	**[40] Gas**		**[41] Test Method**
	207	2140	505		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: 9/27/17

Phone: 575-748-6946

OIL CONSERVATION DIVISION

Approved by:

Title: Petroleum Engineer

Approval Date: 10/05/17

Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD
SEP 29 2017
RECEIVED

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.

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 6H

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

9. API Well No.
30-025-43465

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 560FWL

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.

2/20/17 to 2/24/17 Test csg to 8500# for 30 mins. Good test. Drill out FC, FS & 8' of new formation.

4/4/17 to 7/1/17 Load and test annulus to 1500# for 30 mins. Ran CBL. TOC @ 2906'. Set CBP @ 18845'. Test to 8160#. Perf 9398-18815' (2772). Acdz w/93,744 gal 7 1/2% and 97,440 gal 15%; Frac w/18,228,014# sand & 25,521,572 gal fluid.

8/8/17 to 8/10/17 Drilled out CFP's. Clean down to CBP @ 18845'.

8/11/17 to 8/12/17 Set 2 7/8" 6.5# L-80 tbg @ 8568' & pkr @ 8561'. Installed gas-lift system.

8/22/17 Began flowing back & testing.

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #389999 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 09/27/2017

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 #389999 that would not fit on the form

32. Additional remarks, continued

8/23/17 Date of first production.

HOBBS OCD

SEP 29 2017

RECEIVED

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 6H

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

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

9. API Well No.: 30-025-43465

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 560FWL

At top prod interval reported below: Sec 31 T24S R32E Mer NMP

At total depth: SWSW Lot 4 247FSL 1021FWL

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: 12/08/2016

15. Date T.D. Reached: 12/29/2016

16. Date Completed: ☐ D & A ☒ Ready to Prod. 08/22/2017

17. Elevations (DF, KB, RT, GL)*: 3538 GL

18. Total Depth: MD 18961 TVD 9120

19. Plug Back T.D.: MD 18845 TVD 9132

20. Depth Bridge Plug Set: MD 18845 TVD 9132

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	810		1000		0	
12.250	9.625 J55	40.0	0	4530		1500		0	
8.750	5.500 P110	17.0	0	18953		3350		2906	

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	8568	8561						

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	BONE SPRING	9398	18815	9398 TO 18815	0.430	2772	OPEN
B)							
C)							
D)							

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

Depth Interval	Amount and Type of Material
9398 TO 18815	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
08/23/2017	08/23/2017	24	→	207.0	505.0	2140.0			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
	730	250.0	→	207	505	2140		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 #390014 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	4520	4543		RUSTLER	782
BELL CANYON	4544	5503		TOS	1015
CHERRY CANYON	5504	6744		BOS	4296
BRUSHY CANYON	6745	8431		LAMAR	4520
BONE SPRING LM	8432	9201		BELL CANYON	4544
				CHERRY CANYON	5504
				BRUSHY CANYON	6745
				BONE SPRING LM	8432

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 #390014 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 09/27/2017

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 #6H

Perfs	7 1/2% Acid (Gal)	15% Acid (Gal)	Sand (#)	Fluid (Gal)
1	0	1512	244851	361914
2	1512	3024	299680	439866
3	1512	1512	240540	354732
4	1500	1512	300070	475428
5	1500	1512	300240	459552
6	1500	1512	152130	357366
7	1500	1512	300160	501930
8	1512	1512	300280	379470
9	1512	1512	299060	463806
10	1500	1512	300120	441660
11	1512	1512	298580	477204
12	1512	1512	171440	449274
13	1500	1512	303350	538554
14	1512	1512	299530	482790
15	1512	1512	300680	426804
16	1500	1512	300270	458712
17	1512	1512	300130	421302
18	1512	1512	320770	506436
19	1500	1512	302220	416124
20	1512	1512	302140	420420
21	1512	1512	300620	426216
22	1512	1512	206980	323232
23	1512	1512	301360	411768
24	1512	1512	283280	435666
25	1500	1512	297770	458796
26	1512	1512	299740	445914
27	1512	1554	300020	416640
28	1512	1512	300490	382116
29	1512	1512	301950	362796
30	1512	1512	302015	352926
31	1500	1974	300250	369336
32	1512	1512	302380	365442
33	1512	1512	298910	384720
34	1512	1512	300080	371028
35	1512	1512	186000	412734
36	1512	1512	301660	359394
37	1512	1512	277870	474704
38	1512	1512	293950	361452
39	1512	1512	303670	357336
40	1512	1512	301150	358218
41	1512	1554	291440	354228
42	1512	1554	298470	353682
43	1512	1512	301130	358386
44	1512	1512	300340	369138
45	1512	1512	297520	373254
46	1512	1512	301110	385854
47	1512	1554	288760	348642
48	1512	1512	300870	421806
49	1512	1512	300600	493038
50	1512	1512	300020	418656
51	1512	1554	300000	417774
52	1512	1512	301460	392952
53	1512	1512	300100	390096
54	1512	1512	305590	368340
55	1512	1512	300820	354480
56	1512	1512	264060	435582
57	1512	1512	300440	361410
58	1512	1512	303618	381192
59	1512	1512	276840	386190
60	1512	1512	301150	428484
61	1512	1512	300520	356244
62	1512	1512	300250	358176
63	1634	1512	296520	350192
Totals	**93,744**	**97,440**	**18,228,014**	**25,521,572**

Windward Federal 6H

	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	18,815	38	14	18,624	77	6	18,515	19	6	18,352	33	6	18,201	33	6
	18,777	38	12	18,610	14	6	18,497	19	6	18,341	13	6	18,189	13	6
	18,739	38	10	18,596	14	6	18,478	20	6	18,328	19	6	18,176	19	6
	18,701		8	18,582	16	6	18,458	18	6	18,309	23	6	18,157	16	6
				18,566	14	5	18,440		5	18,286	14	5	18,141	16	5
				18,552	9	5	18,425	22	5	18,272	19	5	18,125	22	5
				18,543	9	5	18,403	18	5	18,253	19	5	18,103	18	5
				18,534		5	18,385		5	18,234		5	18,085		5
	Plug to Plug	213	44	Plug to Plug	107	44	Plug to Plug	165	44	Plug to Plug	142	44	Plug to Plug	153	44
	Frac Plug	18,845	Total Shots	Frac Plug	18,632	Total Shots	Frac Plug	18,525	Total Shots	Frac Plug	18,360	Total Shots	Frac Plug	18,218	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	18,055	30	6	17,912	23	6	17,752	33	6	17,608	27	6	17,456	30	6
	18,040	14	6	17,897	18	6	17,740	13	6	17,596	17	6	17,437	14	6
	18,026	16	6	17,879	22	6	17,727	17	6	17,579	14	6	17,423	12	6
	18,010	21	6	17,857	16	6	17,710	16	6	17,565	23	6	17,411	16	6
	17,989	17	5	17,841	16	5	17,694	22	5	17,542	19	5	17,395	22	5
	17,972	16	5	17,825	21	5	17,672	18	5	17,523	19	5	17,373	19	5
	17,956	21	5	17,804	19	5	17,654	19	5	17,504	18	5	17,354	18	5
	17,935		5	17,785		5	17,635		5	17,486		5	17,336		5
	Plug to Plug	145	44	Plug to Plug	168	44	Plug to Plug	132	44	Plug to Plug	164	44	Plug to Plug	130	44
	Frac Plug	18,065	Total Shots	Frac Plug	17,920	Total Shots	Frac Plug	17,752	Total Shots	Frac Plug	17,620	Total Shots	Frac Plug	17,456	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	17,317	19	6	17,157	29	6	17,010	26	6	16,850	36	6	16,708	34	6
	17,295	15	6	17,142	12	6	16,992	14	6	16,839	10	6	16,690	10	6
	17,280	16	6	17,130	19	6	16,978	17	6	16,829	17	6	16,680	18	6
	17,264	22	6	17,111	19	6	16,961	18	6	16,812	19	6	16,662	19	6
	17,242	19	5	17,092	18	5	16,943	19	5	16,793	19	5	16,643	19	5
	17,223	18	5	17,074	19	5	16,924	19	5	16,774	14	5	16,624	18	5
	17,205	19	5	17,055	19	5	16,905	19	5	16,760	18	5	16,606	19	5
	17,186		5	17,036		5	16,886		5	16,742		5	16,587		5
	Plug to Plug	161	44	Plug to Plug	147	44	Plug to Plug	160	44	Plug to Plug	141	44	Plug to Plug	159	44
	Frac Plug	17,326	Total Shots	Frac Plug	17,165	Total Shots	Frac Plug	17,018	Total Shots	Frac Plug	16,858	Total Shots	Frac Plug	16,717	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	16,550	37	6	16,404	28	6	16,269	18	6	16,112	26	6	15,946	42	6
	16,534	18	6	16,389	14	6	16,250	19	6	16,099	18	6	15,935	10	6
	16,516	20	6	16,375	13	6	16,231	19	6	16,081	18	6	15,925	17	6
	16,496	20	6	16,362	19	6	16,212	18	6	16,063	19	6	15,908	16	6
	16,476	18	5	16,343	18	5	16,194	19	5	16,044	19	5	15,892	23	5
	16,458	15	5	16,325	25	5	16,175	19	5	16,025	23	5	15,869	12	5
	16,443	11	5	16,300	13	5	16,156	18	5	16,002	14	5	15,857	17	5
	16,432		5	16,287		5	16,138		5	15,988		5	15,840		5
	Plug to Plug	146	44	Plug to Plug	134	44	Plug to Plug	158	44	Plug to Plug	166	44	Plug to Plug	134	44
	Frac Plug	16,558	Total Shots	Frac Plug	16,412	Total Shots	Frac Plug	16,278	Total Shots	Frac Plug	16,120	Total Shots	Frac Plug	15,954	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	15,811	29	6	15,654	34	6	15,505	33	6	15,348	41	6	15,217	29	6
	15,801	19	6	15,637	11	6	15,492	16	6	15,340	8	6	15,201	18	6
	15,782	19	6	15,626	16	6	15,476	16	6	15,332	18	6	15,183	19	6
	15,763	19	6	15,610	15	6	15,460	22	6	15,314	19	6	15,164	19	6
	15,744	18	5	15,595	18	5	15,438	12	5	15,295	19	5	15,145	18	5
	15,726	16	5	15,577	20	5	15,426	19	5	15,276	18	5	15,127	19	5
	15,710	22	5	15,557	19	5	15,407	18	5	15,258	12	5	15,108	13	5
	15,688		5	15,538		5	15,389		5	15,246		5	15,095		5
	Plug to Plug	150	44	Plug to Plug	157	44	Plug to Plug	148	44	Plug to Plug	133	44	Plug to Plug	162	44
	Frac Plug	15,820	Total Shots	Frac Plug	15,670	Total Shots	Frac Plug	15,513	Total Shots	Frac Plug	15,365	Total Shots	Frac Plug	15,232	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	15,062	33	6	14,908	31	6	14,760	32	6	14,622	28	6	14,462	28	6
	15,052	19	6	14,895	12	6	14,752	19	6	14,602	18	6	14,448	15	6
	15,033	19	6	14,883	19	6	14,733	18	6	14,584	19	6	14,433	18	6
	15,014	19	6	14,864	18	6	14,715	19	6	14,565	19	6	14,415	16	6
	14,995	18	5	14,846	21	5	14,696	19	5	14,546	15	5	14,399	21	5
	14,977	16	5	14,825	17	5	14,677	13	5	14,531	22	5	14,378	19	5
	14,961	22	5	14,808	16	5	14,664	14	5	14,509	19	5	14,359	19	5
	14,939		5	14,792		5	14,650		5	14,490		5	14,340		5
	Plug to Plug	150	44	Plug to Plug	150	44	Plug to Plug	140	44	Plug to Plug	154	44	Plug to Plug	154	44
	Frac Plug	15,070	Total Shots	Frac Plug	14,920	Total Shots	Frac Plug	14,770	Total Shots	Frac Plug	14,630	Total Shots	Frac Plug	14,476	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
From Bottom to Top	14,310	30	6	14,168	32	6	14,012	29	6	13,860	31	6	13,712	29	6
	14,303	19	6	14,153	15	6	13,996	12	6	13,850	15	6	13,704	19	6
	14,284	19	6	14,138	22	6	13,984	18	6	13,835	19	6	13,685	25	6
	14,265	18	6	14,116	19	6	13,966	19	6	13,816	19	6	13,660	15	6
	14,247	19	5	14,097	19	5	13,947	19	5	13,797	22	5	13,645	16	5
	14,228	19	5	14,078	19	5	13,928	21	5	13,775	15	5	13,629	14	5
	14,209	9	5	14,059	18	5	13,907	16	5	13,760	19	5	13,615	24	5
	14,200		5	14,041		5	13,891		5	13,741		5	13,591		5
	Plug to Plug	139	44	Plug to Plug	163	44	Plug to Plug	138	44	Plug to Plug	157	44	Plug to Plug	149	44
	Frac Plug	14,322	Total Shots	Frac Plug	14,183	Total Shots	Frac Plug	14,020	Total Shots	Frac Plug	13,882	Total Shots	Frac Plug	13,725	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
From Bottom to Top	13,568	23	6	13,410	32	6	13,263	29	6	13,108	34	6	12,962	28	6
	13,554	19	6	13,400	20	6	13,250	14	6	13,095	18	6	12,946	14	6
	13,535	21	6	13,380	13	6	13,236	19	6	13,077	13	6	12,932	15	6
	13,514	16	6	13,367	19	6	13,217	19	6	13,064	16	6	12,917	18	6
	13,498	18	5	13,348	19	5	13,198	19	5	13,048	18	5	12,899	19	5
	13,480	20	5	13,329	19	5	13,179	18	5	13,030	19	5	12,880	22	5
	13,460	18	5	13,310	18	5	13,161	19	5	13,011	21	5	12,858	16	5
	13,442		5	13,292		5	13,142		5	12,990		5	12,842		5
	Plug to Plug	156	44	Plug to Plug	149	44	Plug to Plug	155	44	Plug to Plug	146	44	Plug to Plug	160	44
	Frac Plug	13,576	Total Shots	Frac Plug	13,420	Total Shots	Frac Plug	13,271	Total Shots	Frac Plug	13,116	Total Shots	Frac Plug	12,970	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	12,802	40	6	12,665	28	6	12,501	42	6	12,365	28	6	12,215	28	6
	12,784	16	6	12,650	13	6	12,496	14	6	12,350	16	6	12,200	13	6
	12,768	13	6	12,637	19	6	12,482	17	6	12,334	16	6	12,187	25	6
	12,755	13	6	12,618	24	6	12,465	16	6	12,318	16	6	12,162	16	6
	12,742	15	5	12,594	14	5	12,449	16	5	12,302	21	5	12,146	13	5
	12,727	16	5	12,580	15	5	12,433	21	5	12,281	19	5	12,133	21	5
	12,711	18	5	12,565	22	5	12,412	19	5	12,262	19	5	12,112	18	5
	12,693		5	12,543		5	12,393		5	12,243		5	12,094		5
	Plug to Plug	137	44	Plug to Plug	149	44	Plug to Plug	151	44	Plug to Plug	150	44	Plug to Plug	149	44
	Frac Plug	12,810	Total Shots	Frac Plug	12,673	Total Shots	Frac Plug	12,524	Total Shots	Frac Plug	12,373	Total Shots	Frac Plug	12,223	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	12,066	28	6	11,911	33	6	11,765	27	6	11,605	39	6	11,472	28	6
	12,052	15	6	11,898	17	6	11,748	13	6	11,594	20	6	11,457	19	6
	12,037	18	6	11,881	16	6	11,735	16	6	11,574	12	6	11,438	18	6
	12,019	19	6	11,865	15	6	11,719	19	6	11,562	17	6	11,420	22	6
	12,000	19	5	11,850	19	5	11,700	18	5	11,545	15	5	11,398	16	5
	11,981	18	5	11,831	18	5	11,682	22	5	11,530	17	5	11,382	18	5
	11,963	19	5	11,813	21	5	11,660	16	5	11,513	13	5	11,364	19	5
	11,944		5	11,792		5	11,644		5	11,500		5	11,345		5
	Plug to Plug	155	44	Plug to Plug	146	44	Plug to Plug	160	44	Plug to Plug	133	44	Plug to Plug	155	44
	Frac Plug	12,074	Total Shots	Frac Plug	11,919	Total Shots	Frac Plug	11,773	Total Shots	Frac Plug	11,613	Total Shots	Frac Plug	11,480	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	11,308	37	6	11,160	35	6	11,012	28	6	10,866	29	6	10,720	26	6
	11,294	14	6	11,150	20	6	10,998	12	6	10,850	15	6	10,700	11	6
	11,280	16	6	11,130	20	6	10,986	16	6	10,835	15	6	10,689	18	6
	11,264	14	6	11,110	20	6	10,970	18	6	10,820	18	6	10,671	19	6
	11,250	18	5	11,090	20	5	10,952	19	5	10,802	19	5	10,652	19	5
	11,232	18	5	11,070	10	5	10,933	19	5	10,783	19	5	10,633	18	5
	11,214	19	5	11,060	20	5	10,914	19	5	10,764	18	5	10,615	19	5
	11,195		5	11,040		5	10,895		5	10,746		5	10,596		5
	Plug to Plug	155	44	Plug to Plug	150	44	Plug to Plug	146	44	Plug to Plug	146	44	Plug to Plug	158	44
	Frac Plug	11,325	Total Shots	Frac Plug	11,170	Total Shots	Frac Plug	11,020	Total Shots	Frac Plug	10,874	Total Shots	Frac Plug	10,728	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	10,562	34	6	10,416	30	6	10,270	26	6	10,120	24	6	9,959	38	6
	10,552	11	6	10,404	14	6	10,259	19	6	10,100	10	6	9,944	18	6
	10,541	20	6	10,390	19	6	10,240	19	6	10,090	18	6	9,926	11	6
	10,521	19	6	10,371	19	6	10,221	18	6	10,072	19	6	9,915	14	6
	10,502	19	5	10,352	18	5	10,203	19	5	10,053	19	5	9,901	17	5
	10,483	18	5	10,334	19	5	10,184	19	5	10,034	19	5	9,884	18	5
	10,465	19	5	10,315	19	5	10,165	21	5	10,015	18	5	9,866	15	5
	10,446		5	10,296		5	10,144		5	9,997		5	9,851		5
	Plug to Plug	146	44	Plug to Plug	137	44	Plug to Plug	157	44	Plug to Plug	163	44	Plug to Plug	133	44
	Frac Plug	10,570	Total Shots	Frac Plug	10,424	Total Shots	Frac Plug	10,287	Total Shots	Frac Plug	10,130	Total Shots	Frac Plug	9,967	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	9,826	25	6	9,664	36	6	9,518	29	6		9398			0	
	9,809	18	6	9,652	16	6	9,507	19	6						
	9,791	19	6	9,636	16	6	9,488	16	6						
	9,772	19	6	9,620	16	6	9,472	15	6						
	9,753	18	5	9,604	14	5	9,457	22	5						
	9,735	15	5	9,590	24	5	9,435	19	5						
	9,720	20	5	9,566	19	5	9,416	18	5						
	9,700		5	9,547		5	9,398		5						
	Plug to Plug	154	44	Plug to Plug	154	44	Plug to Plug	54	44	Plug to Plug	0	0	Plug to Plug	0	0
	Frac Plug	9,834	Total Shots	Frac Plug	9,680	Total Shots	Frac Plug	9,526	Total Shots	Frac Plug		Total Shots	Frac Plug		Total Shots