

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

Form C-104
Revised August 1, 2011

MAY 23 2018

Submit one copy to appropriate District Office

RECEIVED ☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address COG Operating LLC 2208 W. Main Street Artesia, NM 88210		² OGRID Number 229137
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30 - 025-43924	⁵ Pool Name Dogie Draw; Wolfcamp	⁶ Pool Code 17980
⁷ Property Code 319402	⁸ Property Name Montera Federal	⁹ Well Number 23H

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
N	10	25S	35E		190	South	1650	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
K	3	25S	35E		2438	South	1979	West	Lea

¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 5/10/18	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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III. Oil and Gas Transporters

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

IV. Well Completion Data

²¹ Spud Date 12/4/17	²² Ready Date 5/2/18	²³ TD 19659' 12315	²⁴ PBSD 19550'	²⁵ Perforations 12558-19525'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
13 1/2"	10 3/4"	1000'	750		
9 7/8"	7 5/8"	11694'	1825		
6 3/4"	5" & 5 1/2"	19650'	1565		
	2 7/8"	11382'			

V. Well Test Data

³¹ Date New Oil 5/4/18	³² Gas Delivery Date 5/10/18	³³ Test Date 5/5/18	³⁴ Test Length 24 Hrs	³⁵ Tbg. Pressure 3800#	³⁶ Csg. Pressure 2200#
³⁷ Choke Size 17/64"	³⁸ Oil 403	³⁹ Water 2325	⁴⁰ Gas 163		⁴¹ Test Method 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:

Printed name:
Stormi Davis

Title:
Regulatory Analyst

E-mail Address:
sdavis@concho.com

Date:
5/17/18

Phone:
575-748-6946

OIL CONSERVATION DIVISION

Approved by:

Karen Sharp

Title:

Staff Mgr

Approval Date:

6-7-18

Pending BLM approvals will
subsequently be reviewed
and scanned

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.*5. Lease Serial No.
NMNM101608

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 28. Well Name and No.
MONTERA FEDERAL 23H9. API Well No.
30-025-4392410. Field and Pool or Exploratory Area
DOGIE DRAW; WOLFCAMP11. County or Parish, State
LEA COUNTY, NM1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
COG OPERATING LLC
Contact: STORMI DAVIS
E-Mail: sdavis@concho.com3a. Address
2208 WEST MAIN
ARTESIA, NM 88210
3b. Phone No. (include area code)
Ph: 575-748-69464. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 10 T25S R35E Mer NMP SESW 190FSL 1650FWL**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.

1/23/18 to 1/24/18 Test csg to 1500# for 30 mins. Set CBP @ 19550'. Test to 6500#. Test csg to 11005#. Good test. Perf 19515-19525' (60). Injection test.
4/7/18 to 4/19/18 Perf 12558-19468' (2024). Acdz w/140,574 gal 7 1/2%; frac w/17,642,238# sand & 16,198,308 gal fluid.

4/24/18 to 4/25/18 Drilled out CFP's. Clean down to CBP @ 19550'.
5/2/18 Set 2 7/8" 6.5# L-80 tbg @ 11382' & pkr @ 11374'. Installed gas-lift system.

5/4/18 Began flowing back & testing. Date of first production.

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #420994 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Hobbs**

Name (Printed/Typed) STORMI DAVIS

Title PREPARER

Signature (Electronic Submission)

Date 05/22/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE

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.

to make to any department or agency of the United

(Instructions on page 2)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

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

3. Address 2208 WEST MAIN ARTESIA, NM 88210 3a. Phone No. (include area code) Ph: 575-748-6946

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface Sec 10 T25S R35E Mer NMP SESW 190FSL 1650FWL
At top prod interval reported below Sec 3 T25S R35E Mer NMP
At total depth NESW 2438FSL 1979FWL

5. Lease Serial No. NMNM101608

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No. MONTERA FEDERAL 23H

9. API Well No. 30-025-43924

10. Field and Pool, or Exploratory DOGIE DRAW; WOLFCAMP

11. Sec., T., R., M., or Block and Survey or Area Sec 10 T25S R35E Mer NMP

12. County or Parish LEA 13. State NM

14. Date Spudded 12/04/2017 15. Date T.D. Reached 01/11/2018 16. Date Completed ☐ D & A ☒ Ready to Prod. 05/02/2018

17. Elevations (DF, KB, RT, GL)* 3221 GL

18. Total Depth: MD 19659 TVD 12315 19. Plug Back T.D.: MD 19550 TVD 12308 20. Depth Bridge Plug Set: MD 19550 TVD 12308

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
13.500	10.750 L80	45.5	0	1000		750		0	
6.750	5.500 P110	23.0	0	11163		1565		0	
9.875	7.625 P110	29.7	0	11694	5246	1825		0	
6.750	5.000 P110	18.0	11163	19650					

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	11382	11374						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	12558	19525	12558 TO 19468	0.430	2024	OPEN
B)			19515 TO 19525		60	OPEN
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
12558 TO 19468	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
05/04/2018	05/05/2018	24	→	403.0	163.0	2325.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. 3800 SI	Csg. Press. 2200.0	24 Hr. Rate →	Oil BBL 403	Gas MCF 163	Water BBL 2325	Gas:Oil Ratio	Well Status	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 #421024 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

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	5241	5274		RUSTLER	729
BELL CANYON	5275	6244		TOS	1076
CHERRY CANYON	6245	7715		BOS	4841
BRUSHY CANYON	7716	8955		LAMAR	5241
BONE SPRING LM	8956	10285		BELL CANYON	5275
1ST BONE SPRING	10286	10882		CHERRY CANYON	6245
2ND BONE SPRING	10883	11897		BRUSHY CANYON	7716
3RD BONE SPRING	11898	12394		BONE SPRING LM	8956

32. Additional remarks (include plugging procedure):

Additional Tops: Wolfcamp 12395'

Perfs-Stimulation and Surveys 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 #421024 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 05/22/2018

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 ****

MONTERA FEDERAL #23H (30-025-43924)

**HOBBS OCD
MAY 23 2018
RECEIVED**

<u>Perfs</u>	<u>7 1/2% Acid (Gal)</u>	<u>Sand (#)</u>	<u>Fluid (Gal)</u>
1	4032	382792	432978
2	3234	393175	359688
3	3150	382362	356874
4	2982	382966	371322
5	2982	383491	374892
6	3024	382125	372036
7	3066	384641	349566
8	3024	383171	365484
9	3024	382436	353892
10	3024	384510	347718
11	3066	384074	348264
12	3024	383662	347256
13	3024	382772	364770
14	3066	384107	346248
15	3024	385799	350742
16	3234	383079	345534
17	3024	386037	349188
18	3024	383705	366702
19	3024	382551	348390
20	3024	382084	345828
21	3024	383211	345156
22	3024	382334	347802
23	2940	382585	367374
24	3066	381821	346332
25	3024	382064	340158
26	3024	383976	350658
27	3024	384246	347928
28	3066	382361	345324
29	3066	381847	338520
30	3024	382605	342300
31	3024	382216	347634
32	3066	383848	344148
33	3024	382474	345030
34	3024	383405	359394
35	3024	382620	341922
36	3024	382125	342930
37	3024	382511	342594
38	3024	382392	344862
39	3024	385029	342720
40	3234	383705	344568
41	3024	383036	367038
42	3024	383775	339822
43	3024	381512	336336
44	3024	382794	343056
45	2604	384388	342594
46	3024	389819	344736
Totals	140,574	17,642,238	16,198,308

MONTERA FEDERAL 23H															
From Bottom to Top	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
	19,468	15	6	19,325	23	6	19,166	26	6	19,018	23	6	18,873	18	6
	19,453	16	6	19,302	16	6	19,151	15	6	19,004	19	6	18,852	18	6
	19,437	19	6	19,286	19	6	19,136	19	6	18,985	19	6	18,834	17	6
	19,418	17	6	19,267	18	6	19,117	19	6	18,968	24	6	18,817	21	6
	19,401	20	5	19,249	19	5	19,098	19	5	18,942	16	5	18,796	19	5
	19,381	19	5	19,230	19	5	19,078	18	5	18,926	17	5	18,777	18	5
	19,362	14	5	19,211	19	5	19,060	19	5	18,909	18	5	18,769	17	5
	19,348	5	5	19,192	5	5	19,041	5	5	18,891	5	5	18,742	5	5
	Plug to Plug	143	44	Plug to Plug	152	44	Plug to Plug	155	44	Plug to Plug	145	44	Plug to Plug	148	44
Frac Plug	19,476	Total Shots	Frac Plug	19,333	Total Shots	Frac Plug	19,181	Total Shots	Frac Plug	19,028	Total Shots	Frac Plug	18,881	Total Shots	
From Bottom to Top	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
	18,717	25	6	18,570	23	6	18,420	18	6	18,268	22	6	18,116	18	6
	18,702	19	6	18,551	19	6	18,400	18	6	18,250	17	6	18,099	19	6
	18,683	19	6	18,532	18	6	18,382	24	6	18,233	21	6	18,080	19	6
	18,664	18	6	18,514	21	6	18,358	14	6	18,212	19	6	18,061	19	6
	18,646	19	5	18,493	17	5	18,344	19	5	18,193	19	5	18,042	18	5
	18,627	19	5	18,478	18	5	18,325	19	5	18,174	19	5	18,024	17	5
	18,608	15	5	18,458	20	5	18,308	16	5	18,155	21	5	18,007	21	5
	18,593	5	5	18,438	5	5	18,290	5	5	18,134	5	5	17,986	5	5
	Plug to Plug	154	44	Plug to Plug	150	44	Plug to Plug	148	44	Plug to Plug	156	44	Plug to Plug	148	44
Frac Plug	18,732	Total Shots	Frac Plug	18,578	Total Shots	Frac Plug	18,426	Total Shots	Frac Plug	18,280	Total Shots	Frac Plug	18,124	Total Shots	
From Bottom to Top	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
	17,968	18	6	17,806	29	6	17,666	18	6	17,516	18	6	17,358	25	6
	17,948	19	6	17,790	16	6	17,649	21	6	17,496	19	6	17,342	16	6
	17,929	20	6	17,774	14	6	17,628	19	6	17,477	19	6	17,326	19	6
	17,909	17	6	17,760	19	6	17,609	19	6	17,458	19	6	17,307	16	6
	17,892	19	5	17,741	19	5	17,600	19	5	17,439	21	5	17,291	21	5
	17,873	19	5	17,722	19	5	17,571	19	5	17,418	16	5	17,270	19	5
	17,854	19	5	17,703	19	5	17,552	18	5	17,402	19	5	17,251	19	5
	17,835	5	5	17,684	5	5	17,534	5	5	17,383	5	5	17,232	5	5
	Plug to Plug	162	44	Plug to Plug	140	44	Plug to Plug	150	44	Plug to Plug	158	44	Plug to Plug	144	44
Frac Plug	17,976	Total Shots	Frac Plug	17,814	Total Shots	Frac Plug	17,674	Total Shots	Frac Plug	17,524	Total Shots	Frac Plug	17,368	Total Shots	
From Bottom to Top	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
	17,214	18	6	17,059	25	6	16,908	23	6	16,762	18	6	16,606	25	6
	17,192	17	6	17,044	19	6	16,891	17	6	16,741	18	6	16,591	19	6
	17,175	17	6	17,025	19	6	16,874	19	6	16,723	17	6	16,572	19	6
	17,158	20	6	17,006	19	6	16,855	24	6	16,706	21	6	16,553	18	6
	17,138	19	5	16,987	21	5	16,831	14	5	16,685	18	5	16,535	19	5
	17,119	19	5	16,966	17	5	16,817	18	5	16,667	19	5	16,516	19	5
	17,100	16	5	16,949	18	5	16,799	19	5	16,648	17	5	16,497	14	5
	17,084	5	5	16,931	5	5	16,780	5	5	16,631	5	5	16,483	5	5
	Plug to Plug	148	44	Plug to Plug	158	44	Plug to Plug	146	44	Plug to Plug	149	44	Plug to Plug	153	44
Frac Plug	17,222	Total Shots	Frac Plug	17,074	Total Shots	Frac Plug	16,918	Total Shots	Frac Plug	16,770	Total Shots	Frac Plug	16,621	Total Shots	
From Bottom to Top	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
	16,460	23	6	16,309	18	6	16,146	31	6	16,005	18	6	15,857	18	6
	16,440	18	6	16,280	19	6	16,130	16	6	15,989	20	6	15,837	19	6
	16,422	19	6	16,271	23	6	16,114	16	6	15,969	19	6	15,818	19	6
	16,403	20	6	16,248	15	6	16,098	16	6	15,950	18	6	15,799	18	6
	16,383	18	5	16,233	19	5	16,082	19	5	15,932	19	5	15,781	17	5
	16,365	17	5	16,214	19	5	16,063	18	5	15,913	24	5	15,764	21	5
	16,348	21	5	16,195	18	5	16,045	22	5	15,889	14	5	15,743	19	5
	16,327	5	5	16,177	5	5	16,023	5	5	15,875	5	5	15,724	5	5
	Plug to Plug	151	44	Plug to Plug	163	44	Plug to Plug	141	44	Plug to Plug	148	44	Plug to Plug	161	44
Frac Plug	16,468	Total Shots	Frac Plug	16,317	Total Shots	Frac Plug	16,154	Total Shots	Frac Plug	16,013	Total Shots	Frac Plug	15,865	Total Shots	
From Bottom to Top	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
	15,696	28	6	15,555	18	6	15,405	18	6	15,246	26	6	15,103	18	6
	15,680	16	6	15,538	21	6	15,385	19	6	15,231	16	6	15,081	16	6
	15,664	15	6	15,517	19	6	15,366	19	6	15,215	18	6	15,065	19	6
	15,649	19	6	15,498	19	6	15,347	19	6	15,197	17	6	15,046	19	6
	15,630	19	5	15,479	19	5	15,328	14	5	15,180	21	5	15,027	19	5
	15,611	19	5	15,460	21	5	15,314	23	5	15,159	19	5	15,008	19	5
	15,592	19	5	15,439	16	5	15,291	19	5	15,140	19	5	14,989	19	5
	15,573	5	5	15,423	5	5	15,272	5	5	15,121	5	5	14,970	5	5
	Plug to Plug	141	44	Plug to Plug	150	44	Plug to Plug	159	44	Plug to Plug	143	44	Plug to Plug	151	44
Frac Plug	15,704	Total Shots	Frac Plug	15,563	Total Shots	Frac Plug	15,413	Total Shots	Frac Plug	15,254	Total Shots	Frac Plug	15,111	Total Shots	
From Bottom to Top	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
	14,945	25	6	14,797	23	6	14,651	18	6	14,495	25	6	14,348	23	6
	14,930	16	6	14,780	17	6	14,630	18	6	14,480	19	6	14,330	19	6
	14,914	19	6	14,763	19	6	14,612	17	6	14,461	18	6	14,311	19	6
	14,895	19	6	14,744	15	6	14,595	20	6	14,443	19	6	14,292	20	6
	14,876	22	5	14,729	23	5	14,575	19	5	14,424	19	5	14,272	18	5
	14,854	16	5	14,706	18	5	14,556	19	5	14,405	19	5	14,254	16	5
	14,838	18	5	14,688	19	5	14,537	17	5	14,386	15	5	14,238	22	5
	14,820	5	5	14,669	5	5	14,520	5	5	14,371	5	5	14,216	5	5
	Plug to Plug	155	44	Plug to Plug	146	44	Plug to Plug	149	4						