

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

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 - 015-44147	⁵ Pool Name Cottonwood Draw; Bone Spring	⁶ Pool Code 97494
⁷ Property Code 316776	⁸ Property Name Road Runner Federal Com	⁹ Well Number 2H

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
O	25	25S	26E		210	South	1965	East	Eddy

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
B	24	25S	26E		206	North	2268	East	Eddy

¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 12/21/17	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	O
	Lucid Energy	G
	NM OIL CONSERVATION ARTESIA DISTRICT	
	JAN 22 2018	

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IV. Well Completion Data

²¹ Spud Date 7/16/17	²² Ready Date 12/19/17	²³ TD 17320' / 7253	²⁴ PBD 17210'	²⁵ Perforations 7508-17185'	²⁶ DHIC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13 3/8"	290'	500		✓
12 1/4"	9 5/8"	2400'	1025		✓
8 3/4"	5 1/2"	17310'	3455		✓
	2 7/8"	6679'			

V. Well Test Data

³¹ Date New Oil 12/19/17	³² Gas Delivery Date 12/21/17	³³ Test Date 12/19/17	³⁴ Test Length 24 Hrs	³⁵ Tbg. Pressure 600#	³⁶ Csg. Pressure
³⁷ Choke Size 34/64"	³⁸ Oil 160	³⁹ Water 2636	⁴⁰ Gas 270		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: *[Signature]*

Printed name:
Stormi Davis

Title:
Regulatory Analyst

E-mail Address:
sdavis@concho.com

Date:
1/17/18

Phone:
575-748-6946

OIL CONSERVATION DIVISION

Approved by: *[Signature]*

Title:
Geology, St.

Approval Date:
1-26-2018

Pending BLM approvals will subsequently be reviewed and scanned

Re-scanned
8-30-18

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**SUNDY 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.*FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 20185. Lease Serial No.
NMNM112907

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
ROAD RUNNER FEDERAL COM 2H9. API Well No.
30-015-4414710. Field and Pool or Exploratory Area
COTTONWOOD DRAW; BONE SPR11. County or Parish, State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
COG OPERATING LLCContact: STORMI DAVIS
E-Mail: sdavis@concho.com3a. Address
2208 WEST MAIN
ARTESIA, NM 882103b. Phone No. (include area code)
Ph: 575-748-6946

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 25 T25S R26E Mer NMP SWSE 210FSL 1965FEL

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 recompleting 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.

9/18/17 Set CBP @ 17210' and test csg to 8509# for 30 mins. Good test. Perf 17175-17185' (60).
Injection test.

11/7/17 to 11/29/17 Perf 7508-17135' (2772). Acdz w/187,698 gal 7 1/2%; frac w/19,745,397# sand & 19,742,016 gal fluid.

12/2/17 to 12/4/17 Drilled out CFP's. Clean down to CBP @ 17210'.

12/5/17 Set 2 7/8" 6.5# J-55 tbg @ 6679' & pkr @ 6669'. Installed gas-lift system.

12/18/17 Began flowing back & testing.

NM OIL CONSERVATION!
ARTESIA DISTRICT

JAN 22 2018

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

Electronic Submission #401166 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Carlsbad

Name (Printed/Typed) STORMI DAVIS

Title PREPARER

Signature (Electronic Submission)

Date 01/17/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____
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.

Title Pending BLM approvals will
subsequently be reviewed
and scanned
Office _____

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

United

(Instructions on page 2)

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

Additional data for EC transaction #401166 that would not fit on the form

32. Additional remarks, continued

12/19/17 Date of first production.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTNM OIL CONSERVATION
ARTESIA DISTRICT

JAN 22 2018

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other		5. Lease Serial No. NMNM112907	
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ 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. ROAD RUNNER FEDERAL COM 2H	
3. Address 2208 WEST MAIN ARTESIA, NM 88210		9. API Well No. 30-015-44147	
3a. Phone No. (include area code) Ph: 575-748-6946		10. Field and Pool, or Exploratory COTTONWOOD DRAW; BONE SPR	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface Sec 25 T25S R26E Mer NMP SWSE 210FSL 1965FEL At top prod interval reported below Sec 24 T25S R26E Mer NMP At total depth NWNE 206FNL 2268FEL		11. Sec., T., R., M., or Block and Survey or Area Sec 25 T25S R26E Mer NMP	
14. Date Spudded 07/16/2017		15. Date T.D. Reached 08/12/2017	
16. Date Completed ☐ D & A ☒ Ready to Prod. 12/19/2017		17. Elevations (DF, KB, RT, GL)* 3248 GL	
18. Total Depth: MD 17320 TVD 7253		19. Plug Back T.D.: MD 17210 TVD 7256	
20. Depth Bridge Plug Set: MD 17210 TVD 7256		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	290		500		0	
12.250	9.625 J55	40.0	0	2400		1025		0	
8.750	5.500 P110	17.0	0	17310		3455		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	6679	6669						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	7508	17185	7508 TO 17135	0.430	2772	OPEN
B)			17175 TO 17185		60	OPEN
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
7508 TO 17135	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
12/19/2017	12/19/2017	24	→	160.0	270.0	2636.0			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	
34/64	600		→	160	270	2636		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	
			→						
Choke Size	Tbg. Press. Flwg. SI	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 #401204 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Pending BLM approvals will
subsequently be reviewed
and scanned
SC 1-26-18

ROAD RUNNER FEDERAL COM #2H (30-015-44147)

<u>Perfs</u>	<u>7 1/2% Acid (Gal)</u>	<u>Sand (#)</u>	<u>Fluid (Gal)</u>
1	4158	315404	497028
2	2856	312117	381612
3	3024	312097	359520
4	3024	311799	359730
5	3108	313173	358932
6	2940	312489	349188
7	2898	338443	411054
8	2940	312717	351414
9	3024	311920	392574
10	2688	312043	353262
11	3024	312882	349986
12	2898	314194	345660
13	2898	313643	344274
14	3444	312198	375060
15	2814	311765	339192
16	2646	313807	343266
17	3024	311160	341376
18	2478	312496	335916
19	2730	312060	338436
20	3024	313446	342090
21	3024	313209	334278
22	2940	311948	328944
23	2982	316442	314076
24	2940	313329	314034
25	2940	314345	349062
26	3024	313834	299544
27	3024	314345	298368
28	3024	313934	298704
29	3024	312232	311052
30	3024	311003	287364
31	2982	318039	295134
32	3108	313364	288330
33	3192	312299	286608
34	3024	313418	286398
35	3024	313995	287280
36	3024	313294	291354
37	3024	312003	283962
38	3024	312818	281106
39	2940	312645	282282
40	2940	312680	280938
41	2016	312963	281988
42	3024	313734	284172
43	3024	313689	278250
44	3066	312550	281988
45	3024	313315	288120
46	3024	312558	277326
47	2898	312606	305886
48	2982	310285	278418
49	3108	314087	281652
50	2982	314059	282576
51	3024	312045	281904
52	2646	310468	280560
53	2982	312815	284088
54	2982	309153	277956
55	2940	310997	281274
56	3108	314451	276780
57	3066	313410	285558
58	3024	313582	275184
59	3024	314532	279384
60	3024	314284	277578
61	2982	314643	281064
62	3024	313409	274806
63	2856	312733	277116
Totals	187,698	19,745,397	19,742,016

ROAD RUNNER FEDERAL COM 2H

From Bottom to Top	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
	17,125	10	0	16,961	20	0	16,823	25	0	16,676	20	0	16,572	20	0
	17,116	24	0	16,963	10	0	16,801	11	0	16,657	22	0	16,593	10	0
	17,082	14	0	16,944	20	0	16,790	17	0	16,635	17	0	16,494	19	0
	17,078	20	0	16,924	19	0	16,771	10	0	16,618	23	0	16,466	19	0
	17,069	19	0	16,905	19	0	16,762	19	0	16,595	15	0	16,446	19	0
	17,030	19	0	16,886	10	0	16,733	10	0	16,580	19	0	16,427	10	0
	17,020	19	0	16,867	19	0	16,714	10	0	16,561	19	0	16,408	19	0
	17,001	19	0	16,848	19	0	16,695	19	0	16,542	19	0	16,389	19	0
	Plug to Plug	184	44	Plug to Plug	158	44	Plug to Plug	148	44	Plug to Plug	163	44	Plug to Plug	153	44
	Frac Plug	17,148	Total Shots	Frac Plug	16,991	Total Shots	Frac Plug	16,833	Total Shots	Frac Plug	16,665	Total Shots	Frac Plug	16,532	Total Shots

From Bottom to Top	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
	16,390	20	0	16,211	24	0	16,040	35	0	15,908	21	0	15,754	23	0
	16,343	17	0	16,167	10	0	16,020	10	0	15,891	10	0	15,738	10	0
	16,331	19	0	16,178	10	0	16,019	17	0	15,872	10	0	15,719	10	0
	16,312	10	0	16,150	19	0	15,998	17	0	15,853	19	0	15,700	20	0
	16,293	17	0	16,140	19	0	15,979	16	0	15,834	25	0	15,680	19	0
	16,276	21	0	16,121	20	0	15,963	17	0	15,808	14	0	15,661	10	0
	16,265	20	0	16,101	19	0	15,946	17	0	15,795	18	0	15,642	14	0
	16,235	19	0	16,082	19	0	15,929	19	0	15,777	19	0	15,628	19	0
	Plug to Plug	158	44	Plug to Plug	165	44	Plug to Plug	138	44	Plug to Plug	154	44	Plug to Plug	148	44
	Frac Plug	16,378	Total Shots	Frac Plug	16,221	Total Shots	Frac Plug	16,064	Total Shots	Frac Plug	15,916	Total Shots	Frac Plug	15,764	Total Shots

From Bottom to Top	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
	16,003	25	0	15,450	20	0	15,287	20	0	15,142	20	0	14,982	20	0
	15,995	19	0	15,432	20	0	15,279	20	0	15,127	21	0	14,972	19	0
	15,980	20	0	15,412	19	0	15,259	22	0	15,106	16	0	14,953	19	0
	15,949	19	0	15,393	19	0	15,237	16	0	15,080	22	0	14,934	19	0
	15,937	19	0	15,374	19	0	15,221	19	0	15,068	10	0	14,915	19	0
	15,908	15	0	15,355	17	0	15,202	19	0	15,049	10	0	14,896	22	0
	15,893	23	0	15,336	21	0	15,183	21	0	15,030	10	0	14,874	17	0
	15,870	19	0	15,317	19	0	15,162	19	0	15,011	19	0	14,857	19	0
	Plug to Plug	158	44	Plug to Plug	153	44	Plug to Plug	155	44	Plug to Plug	160	44	Plug to Plug	159	44
	Frac Plug	16,016	Total Shots	Frac Plug	15,460	Total Shots	Frac Plug	15,307	Total Shots	Frac Plug	15,152	Total Shots	Frac Plug	14,992	Total Shots

From Bottom to Top	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
	14,833	34	0	14,684	20	0	14,531	20	0	14,389	20	0	14,225	20	0
	14,811	12	0	14,666	19	0	14,510	16	0	14,355	14	0	14,207	19	0
	14,799	18	0	14,647	19	0	14,494	15	0	14,341	19	0	14,188	20	0
	14,781	14	0	14,628	10	0	14,479	23	0	14,322	22	0	14,168	19	0
	14,767	24	0	14,609	19	0	14,456	20	0	14,300	17	0	14,149	19	0
	14,743	20	0	14,590	20	0	14,438	19	0	14,283	16	0	14,130	19	0
	14,723	19	0	14,570	19	0	14,417	19	0	14,267	22	0	14,111	10	0
	14,704	19	0	14,551	19	0	14,398	19	0	14,245	19	0	14,092	19	0
	Plug to Plug	139	44	Plug to Plug	153	44	Plug to Plug	162	44	Plug to Plug	144	44	Plug to Plug	163	44
	Frac Plug	14,833	Total Shots	Frac Plug	14,684	Total Shots	Frac Plug	14,531	Total Shots	Frac Plug	14,379	Total Shots	Frac Plug	14,225	Total Shots

From Bottom to Top	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
	14,072	20	0	13,907	32	0	13,758	20	0	13,614	25	0	13,448	31	0
	14,058	24	0	13,894	14	0	13,747	19	0	13,596	21	0	13,433	18	0
	14,034	17	0	13,880	18	0	13,726	19	0	13,575	19	0	13,416	12	0
	14,017	21	0	13,862	24	0	13,708	19	0	13,556	19	0	13,403	22	0
	13,998	19	0	13,839	14	0	13,690	19	0	13,537	19	0	13,381	16	0
	13,977	19	0	13,834	17	0	13,671	19	0	13,518	16	0	13,365	20	0
	13,958	19	0	13,807	21	0	13,652	13	0	13,499	20	0	13,345	19	0
	13,939	19	0	13,788	19	0	13,633	19	0	13,479	19	0	13,326	19	0
	Plug to Plug	163	44	Plug to Plug	141	44	Plug to Plug	152	44	Plug to Plug	166	44	Plug to Plug	142	44
	Frac Plug	14,083	Total Shots	Frac Plug	13,917	Total Shots	Frac Plug	13,778	Total Shots	Frac Plug	13,624	Total Shots	Frac Plug	13,458	Total Shots

From Bottom to Top	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
	13,306	20	0	13,163	20	0	12,994	26	0	12,845	25	0	12,694	20	0
	13,288	19	0	13,144	18	0	12,979	19	0	12,829	18	0	12,676	20	0
	13,269	19	0	13,116	23	0	12,960	16	0	12,811	21	0	12,658	19	0
	13,250	19	0	13,093	15	0	12,944	20	0	12,790	19	0	12,637	19	0
	13,231	19	0	13,078	18	0	12,924	19	0	12,771	19	0	12,618	23	0
	13,212	20	0	13,060	21	0	12,905	21	0	12,752	19	0	12,605	15	0
	13,192	19	0	13,039	19	0	12,884	14	0	12,733	19	0	12,580	14	0
	13,173	19	0	13,020	19	0	12,870	19	0	12,714	19	0	12,566	19	0
	Plug to Plug	163	44	Plug to Plug	159	44	Plug to Plug	144	44	Plug to Plug	166	44	Plug to Plug	153	44
	Frac Plug	13,318	Total Shots	Frac Plug	13,163	Total Shots	Frac Plug	12,994	Total Shots	Frac Plug	12,840	Total Shots	Frac Plug	12,694	Total Shots

From Bottom to Top	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
	12,541	25	0	12,379	32	0	12,229	26	0	12,081	20	0	11,928	25	0
	12,527	24	0	12,361	15	0	12,213	16	0	12,063	19	0	11,910	19	0
	12,503	19	0	12,346	15	0	12,197	19	0	12,044	23	0	11,891	19	0
	12,484	19	0	12,331	19	0	12,178	19	0	12,021	15	0	11,872	19	0
	12,465	19	0	12,312	19	0	12,159	19	0	12,006	23	0	11,853	20	0
	12,446	19	0	12,293	16	0	12,140	19	0	11,983	16	0	11,833	19	0
	12,427	19	0	12,277	22	0	12,121	20	0	11,967	16	0	11,814	19	0
	12,408	19	0	12,255	19	0	12,101	19	0	11,951	19	0	11,795	19	0
	Plug to Plug	163	44	Plug to Plug	141	44	Plug to Plug	154	44	Plug to Plug	165	44	Plug to Plug	162	44
	Frac Plug	12,581	Total Shots	Frac Plug	12,368	Total Shots	Frac Plug	12,245	Total Shots	Frac Plug	12,091	Total Shots	Frac Plug	11,936	Total Shots

From Bottom to Top	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
	11,764	31	0	11,619	25	0	11,469	20	0	11,318	25	0	11,167	26	0
	11,749	15	0	11,604	15	0	11,451	19	0	11,294	16	0	11,141	16	0
	11,734	15	0	11,589	23	0	11,432	20	0	11,278	15	0	11,125	19	0
	11,710	22	0	11,568	17	0	11,412	19	0	11,263	23	0	11,108	19	0
	11,697	17	0	11,549	22	0	11,393	20	0	11,240	19	0	11,087	19	0
	11,680	21	0	11,527	19	0	11,373	16	0	11,221	19	0	11,068	19	0
	11,659	15	0	11,508	10	0	11,355	14	0	11,202	19	0	11,049	14	0
	11,644	19	0	11,489	19	0	11,341	19	0	11,183	19	0	11,035	19	0
	Plug to Plug	140	44	Plug to Plug	155	44	Plug to Plug	153	44	Plug to Plug	159	44	Plug to Plug	142	44
	Frac Plug	11,774	Total Shots	Frac Plug	11,624	Total Shots	Frac Plug	11,470	Total Shots	Frac Plug	11,326	Total Shots	Frac Plug	11,167	Total Shots

ROAD RUNNER FEDERAL COM 2H

From Bottom to Top	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
	11,010	25	0	10,857	20	0	10,699	20	0	10,537	33	0	10,397	20	0
	10,991	23	0	10,838	19	0	10,680	16	0	10,521	14	0	10,379	19	0
	10,968	15	0	10,819	19	0	10,664	17	0	10,507	13	0	10,360	19	0
	10,953	23	0	10,800	19	0	10,647	19	0	10,494	17	0	10,341	19	0
	10,930	15	0	10,781	19	0	10,628	19	0	10,477	22	0	10,322	21	0
	10,918	16	0	10,762	19	0	10,609	20	0	10,455	19	0	10,301	19	0
	10,899	22	0	10,743	24	0	10,593	19	0	10,436	16	0	10,283	15	0
	10,877	0	0	10,719	0	0	10,570	0	0	10,417	0	0	10,268	0	0
	Plug to Plug	158	44	Plug to Plug	168	44	Plug to Plug	182	44	Plug to Plug	140	44	Plug to Plug	154	44
	Frac Plug	11,035	Total Shots	Frac Plug	10,887	Total Shots	Frac Plug	10,709	Total Shots	Frac Plug	10,547	Total Shots	Frac Plug	10,407	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
	10,243	25	0	10,085	26	0	9,934	25	0	9,785	20	0	9,632	20	0
	10,228	19	0	10,070	16	0	9,920	18	0	9,768	19	0	9,610	16	0
	10,207	19	0	10,054	20	0	9,902	21	0	9,747	19	0	9,594	16	0
	10,188	20	0	10,034	19	0	9,881	24	0	9,729	19	0	9,578	22	0
	10,168	19	0	10,015	19	0	9,857	14	0	9,709	19	0	9,558	19	0
	10,149	19	0	9,998	21	0	9,843	16	0	9,690	19	0	9,537	19	0
	10,130	19	0	9,978	16	0	9,825	20	0	9,671	19	0	9,518	19	0
	10,111	0	0	9,959	0	0	9,805	0	0	9,652	0	0	9,499	0	0
	Plug to Plug	158	44	Plug to Plug	148	44	Plug to Plug	154	44	Plug to Plug	153	44	Plug to Plug	180	44
	Frac Plug	10,253	Total Shots	Frac Plug	10,085	Total Shots	Frac Plug	9,948	Total Shots	Frac Plug	9,785	Total Shots	Frac Plug	9,642	Total Shots

From Bottom to Top	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
	9,472	27	0	9,321	24	0	9,173	19	0	9,013	26	0	8,863	25	0
	9,460	19	0	9,307	18	0	9,154	19	0	9,001	19	0	8,848	16	0
	9,441	19	0	9,289	20	0	9,135	23	0	8,982	19	0	8,830	20	0
	9,422	10	0	9,269	19	0	9,112	15	0	8,963	20	0	8,810	19	0
	9,403	19	0	9,250	19	0	9,097	16	0	8,943	19	0	8,791	20	0
	9,384	20	0	9,231	20	0	9,079	21	0	8,924	21	0	8,771	18	0
	9,364	19	0	9,211	19	0	9,058	19	0	8,903	15	0	8,753	20	0
	9,345	0	0	9,192	0	0	9,038	0	0	8,889	0	0	8,733	0	0
	Plug to Plug	148	44	Plug to Plug	153	44	Plug to Plug	160	44	Plug to Plug	145	44	Plug to Plug	155	44
	Frac Plug	9,482	Total Shots	Frac Plug	9,338	Total Shots	Frac Plug	9,193	Total Shots	Frac Plug	9,023	Total Shots	Frac Plug	8,878	Total Shots

From Bottom to Top	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
	8,719	20	0	8,522	50	0	8,390	31	0	8,254	20	0	8,089	20	0
	8,695	19	0	8,512	10	0	8,384	15	0	8,235	19	0	8,085	22	0
	8,676	20	0	8,502	15	0	8,369	19	0	8,216	19	0	8,063	19	0
	8,656	19	0	8,487	15	0	8,350	20	0	8,107	19	0	8,044	19	0
	8,637	19	0	8,472	19	0	8,330	18	0	8,178	19	0	8,026	19	0
	8,618	19	0	8,453	11	0	8,312	15	0	8,159	19	0	8,006	19	0
	8,599	21	0	8,442	15	0	8,297	23	0	8,140	21	0	7,987	20	0
	8,578	0	0	8,427	0	0	8,274	0	0	8,119	0	0	7,967	0	0
	Plug to Plug	191	44	Plug to Plug	128	44	Plug to Plug	142	44	Plug to Plug	156	44	Plug to Plug	161	44
	Frac Plug	8,783	Total Shots	Frac Plug	8,532	Total Shots	Frac Plug	8,408	Total Shots	Frac Plug	8,264	Total Shots	Frac Plug	8,108	Total Shots

From Bottom to Top	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
	7,638	20	0	7,785	29	0	7,842	19	0	7,908	0	0	7,974	0	0
	7,624	14	0	7,772	15	0	7,823	19	0	7,889	0	0	7,955	0	0
	7,610	19	0	7,757	19	0	7,804	19	0	7,870	0	0	7,936	0	0
	7,591	19	0	7,738	19	0	7,785	19	0	7,851	0	0	7,917	0	0
	7,572	19	0	7,719	20	0	7,766	20	0	7,832	0	0	7,898	0	0
	7,553	20	0	7,699	22	0	7,746	19	0	7,812	0	0	7,878	0	0
	7,533	19	0	7,677	16	0	7,727	19	0	7,793	0	0	7,859	0	0
	7,514	0	0	7,661	0	0	7,708	0	0	7,774	0	0	7,840	0	0
	Plug to Plug	153	44	Plug to Plug	143	44	Plug to Plug	87	44	Plug to Plug	0	0	Plug to Plug	0	0
	Frac Plug	7,848	Total Shots	Frac Plug	7,785	Total Shots	Frac Plug	7,832	Total Shots	Frac Plug	7,908	Total Shots	Frac Plug	7,974	Total Shots