

District I
1625th 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

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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 - 025-44046	⁵ Pool Name Wildcat; Bone Spring	⁶ Pool Code 97088
⁷ Property Code 319617	⁸ Property Name Square Bill Federal Com	⁹ Well Number 1H

II. ¹⁰ Surface Location

UL or lot no P	Section 31	Township 25S	Range 35E	Lot Idn	Feet from the 210	North/South Line South	Feet from the 957	East/West line East	County Lea
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¹¹ Bottom Hole Location

UL or lot no I	Section 30	Township 25S	Range 35E	Lot Idn	Feet from the 2420	North/South line South	Feet from the 665	East/West line East	County Lea
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 8/17/18	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

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 11/30/17	²² Ready Date 8/17/18	²³ TD 19780 12412	²⁴ PBSD 19680	²⁵ Perforations 12560-19601	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
13 1/2	10 3/4	1170'	850		
9 7/8	7 5/8	11,803'	2150		
6 3/4	5 5 1/2	19780-11299 11299 - 0	1800		
	2 7/8	11456			

V. Well Test Data

³¹ Date New Oil 8/17/18	³² Gas Delivery Date 08/17/18	³³ Test Date 8/17/18	³⁴ Test Length 24 Hrs	³⁵ Tbg. Pressure 4800	³⁶ Csg. Pressure 1900
³⁷ Choke Size 15/64	³⁸ Oil 724	³⁹ Water 1682	⁴⁰ Gas 413	⁴¹ Test Method	

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: *Amanda Avery*

Printed name:
Amanda Avery

Title:
Regulatory Tech II

E-mail Address:
aavery@concho.com

Date:
10/15/18

Phone:
575-748-6962

OIL CONSERVATION DIVISION

Approved by:

Daren Sharp

Title:

Staff Mgr

Approval Date:

10-24-18

Documents pending BLM approvals will
subsequently be reviewed and scanned

Provide additional well information
required by Horizontal Rule effective
6-26-18

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.

HOBBS OGD

OCT 19 2018

SUBMIT IN TRIPLICATE - Other instructions on page 2

RECEIVED

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM119280
2. Name of Operator COG OPERATING LLC Contact: AMANDA AVERY E-Mail: aavery@concho.com		6. If Indian, Allottee or Tribe Name
3a. Address 2208 W MAIN STREET ARTESIA, NM 88210	3b. Phone No. (include area code) Ph: 575-748-6940	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 31 T25S R35E SESE 210FSL 957FEL 32.080803 N Lat, 103.401136 W Lon		8. Well Name and No. SQUARE BILL FEDERAL COM 1H
		9. API Well No. 30-025-44046
		10. Field and Pool or Exploratory Area WILDCAT; BONE SPRING
		11. County or Parish, State LEA COUNTY, NM

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

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

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat 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 recompleat 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.

05/17/18 Test annulus to 1500# Set CBP @ 19,680' and test csg to 12,000#. Good test. Perf 19,645-19,655' (60). Injection test.
06/15/18 to 07/15/18 Perf 12,560-19,601' (1600). Acdz w/59,262 gal 7 1/2%; frac w/12,309,953# sand & 11,789,694 gal fluid.
07/24/18 to 07/25/18 Drilled out CFP's. Clean down to CBP @ 19,680'.

08/04/18 Set 2 7/8" 6.5# L-80 tbg @ 11,456' @ packer @ 11,441. Installed gas lift system.

08/17/18 Began flowing back & testing.
08/17/18 Date of first production.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #439836 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Hobbs	
Name (Printed/Typed) AMANDA AVERY	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 10/16/2018

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 States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED *

Documents pending BLM approvals will
subsequently be reviewed and scanned

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD

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

WELL COMPLETION OR RECOMPLETION REPORT

DATE 10/18/2018

5. Lease Serial No.
NMNM119280

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

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator
COG OPERATING LLC

Contact: AMANDA AVERY
E-Mail: aavery@concho.com

8. Lease Name and Well No.
SQUARE BILL FEDERAL COM 1H

3. Address
2208 W MAIN STREET
ARTESIA, NM 88210

3a. Phone No. (include area code)
Ph: 575-748-6940

9. API Well No.
30-025-44046

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface SESE Lot P 210FSL 957FEL 32.080203 N Lat, 103.401136 W Lon
Sec 31 T25S R35E Mer NMP
At top prod interval reported below SESE Lot P 210FSL 957FEL 32.080203 N Lat, 103.401136 W Lon
Sec 31 T25S R35E Mer NMP
At total depth SESE 2420FSL 665FEL 32.100780 N Lat, 103.400222 W Lon

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

11. Sec., T., R., M., or Block and Survey
or Area Sec 31 T25S R35E Mer NMP

12. County or Parish
LEA

13. State
NM

14. Date Spudded
11/30/2017

15. Date T.D. Reached
02/16/2018

16. Date Completed
☐ D & A ☒ Ready to Prod.
08/17/2018

17. Elevations (DF, KB, RT, GL)*
3274 GL

18. Total Depth: MD 19780
TVD 12412

19. Plug Back T.D.: MD 19680
TVD 12412

20. Depth Bridge Plug Set: MD 19680
TVD 12412

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

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 N80	45.5	0	1170		850		0	
6.750	5.500 P110	18.0	0	11299					
9.875	7.625 P110	29.7	0	11803	5367	2150		0	
6.750	5.000 P110	23.0	11299	19780		1800		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	11456	11441						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	12560	19601	12560 TO 19601		1600	
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material

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
08/17/2018	08/17/2018	24	→	724.0	413.0	1682.0			GAS LIFT
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
15/64	SI	1900.0	→	724	413	1982		POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

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

ELECTRONIC SUBMISSION #439837 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Documents 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
RSLR	1083			RSLR	1083
TOS	1502			TOS	1502
BOS	5061			BOS	5061
LMAR	5358			LMAR	5358
BLCN	5396			BLCN	5396
CYCN	6356			CYCN	6353
BYCN	7930			BYCN	7930
FBSG	10366			FBSG	10366

32. Additional remarks (include plugging procedure):

Zone Formation Marker
 SBSG 11100 SBSG 11100
 TBSG 12002 TBSG 12002

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 #439837 Verified by the BLM Well Information System.
 For COG OPERATING LLC, sent to the Hobbs

Name (please print) AMANDA AVERYTitle AUTHORIZED REPRESENTATIVE

Signature _____ (Electronic Submission)

Date 10/16/2018

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.

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From Bottom to Top		Distance Between Perfs	Shots	Stage 2	Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots	
		19,601	18	5	19,428	19	5	19,252	22	5	19,075	22	5	18,898	22	5
		19,583	22	5	19,406	22	5	19,230	23	5	19,053	22	5	18,876	22	5
		19,561	22	5	19,384	22	5	19,207	22	5	19,031	22	5	18,854	22	5
		19,539	22	5	19,362	22	5	19,185	22	5	19,009	22	5	18,832	22	5
		19,517	25	5	19,340	22	5	19,163		5	18,987	22	5	18,810	22	5
		19,492	22	5	19,318	22	5	19,141	22	5	18,965	23	5	18,788	22	5
		19,470	23	5	19,296	22	5	19,119	22	5	18,942	22	5	18,766	22	5
		19,447		5	19,274		5	19,097		5	18,920		5	18,744		5
		Plug to Plug	71	40	Plug to Plug	75	40	Plug to Plug	76	40	Plug to Plug	75	40	Plug to Plug	75	40
	Frac Plug	19,610	Total Shots	Frac Plug	19,437	Total Shots	Frac Plug	19,261	Total Shots	Frac Plug	19,084	Total Shots	Frac Plug	18,907	Total Shots	

From Bottom to Top		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots	
		18,722	22	5	18,545	22	5	18,368	27	5	18,192	24	5	18,009	28	5
		18,700	23	5	18,520	19	5	18,349	25	5	18,170	23	5	17,990	19	5
		18,677	22	5	18,501	19	5	18,324	20	5	18,147	22	5	17,971	22	5
		18,655	22	5	18,482	25	5	18,304	24	5	18,125	22	5	17,949	22	5
		18,633	22	5	18,457	27	5	18,280	21	5	18,103	22	5	17,927	23	5
		18,611	22	5	18,430	18	5	18,259	23	5	18,081	22	5	17,904	22	5
		18,589	22	5	18,412	17	5	18,236	20	5	18,059	22	5	17,882	22	5
		18,567		5	18,395		5	18,216		5	18,037		5	17,860		5
		Plug to Plug	76	40	Plug to Plug	72	40	Plug to Plug	73	40	Plug to Plug	76	40	Plug to Plug	69	40
	Frac Plug	18,731	Total Shots	Frac Plug	18,554	Total Shots	Frac Plug	18,377	Total Shots	Frac Plug	18,201	Total Shots	Frac Plug	18,018	Total Shots	

From Bottom to Top		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots
	17,831	29	5	17,662	26	5	17,483	25	5	17,313	19	5	17,133	21	5
	17,813	19	5	17,639	22	5	17,463	24	5	17,291	23	5	17,109	18	5
	17,794	22	5	17,617	22	5	17,439	20	5	17,268	26	5	17,091	26	5
	17,772	22	5	17,595	22	5	17,419	27	5	17,242	19	5	17,065	22	5
	17,750	22	5	17,573	22	5	17,392	18	5	17,223	25	5	17,043	22	5
	17,728	20	5	17,551	24	5	17,374	18	5	17,198	19	5	17,021	22	5
	17,708	20	5	17,527	19	5	17,356	24	5	17,179	25	5	16,999	22	5
	17,688		5	17,508		5	17,332		5	17,154		5	16,977		5
	Plug to Plug	68	40	Plug to Plug	83	40	Plug to Plug	79	40	Plug to Plug	80	40	Plug to Plug	77	40
Frac Plug	17,840	Total Shots	Frac Plug	17,678	Total Shots	Frac Plug	17,498	Total Shots	Frac Plug	17,322	Total Shots	Frac Plug	17,142	Total Shots	

From Bottom to Top	Distance Between Perfs	Shots	Distance Between Perfs	Shots	Distance Between Perfs	Shots	Distance Between Perfs	Shots	Distance Between Perfs	Shots	Distance Between Perfs	Shots			
	16,955	22	5	16,778	22	5	16,603	21	5	16,427	20	5	16,243	24	5
	16,933	22	5	16,756	22	5	16,579	22	5	16,402	21	5	16,220	16	5
	16,911	22	5	16,734	22	5	16,557	22	5	16,381	24	5	16,204	19	5
	16,889	23	5	16,712	22	5	16,535	22	5	16,357	21	5	16,185	25	5
	16,866	22	5	16,690	22	5	16,513	22	5	16,336	25	5	16,160	29	5
	16,844	22	5	16,668	22	5	16,491	5	5	16,311	19	5	16,131	19	5
	16,822	22	5	16,646	22	5	16,469	49	5	16,292	25	5	16,112	17	5
	16,800		5	16,624		5	16,447		5	16,267		5	16,095		5
	Plug to Plug	75	40	Plug to Plug	75	40	Plug to Plug	77	40	Plug to Plug	79	40	Plug to Plug	72	40
Frac Plug	16,964	Total Shots	Frac Plug	16,787	Total Shots	Frac Plug	16,612	Total Shots	Frac Plug	16,436	Total Shots	Frac Plug	16,257	Total Shots	

From Bottom to Top	Stage 21	Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots
	16,073	22	5	15,893	24	5	15,713	27	5	15,532	31	5	15,365	25	5
	16,052	25	5	15,873	22	5	15,694	20	5	15,515	18	5	15,343	22	5
	16,027	30	5	15,851	23	5	15,674	22	5	15,497	22	5	15,321	23	5
	15,997	21	5	15,828	22	5	15,652	22	5	15,475	22	5	15,298	23	5
	15,976	13	5	15,806	22	5	15,630	22	5	15,453	22	5	15,275	21	5
	15,963	24	5	15,784	22	5	15,608	22	5	15,431	22	5	15,254	23	5
	15,939	22	5	15,762	22	5	15,586	23	5	15,409	19	5	15,231	20	5
	15,917		5	15,740		5	15,563		5	15,390		5	15,211		5
	Plug to Plug	85	40	Plug to Plug	74	40	Plug to Plug	70	40	Plug to Plug	66	40	Plug to Plug	82	40
Frac Plug	16,082	Total Shots	Frac Plug	15,902	Total Shots	Frac Plug	15,722	Total Shots	Frac Plug	15,541	Total Shots	Frac Plug	15,380	Total Shots	

From Bottom to Top		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots
	15,186	25	5	15,006	27	5	14,836	21	5	14,658	22	5	14,481	22	5
	15,166	26	5	14,989	18	5	14,813	22	5	14,636	22	5	14,459	22	5
	15,140	18	5	14,971	26	5	14,791	23	5	14,614	22	5	14,437	22	5
	15,122	17	5	14,945	20	5	14,768	22	5	14,592	22	5	14,415	22	5
	15,105	27	5	14,925	24	5	14,746	22	5	14,570	22	5	14,393	22	5
	15,078	27	5	14,901	21	5	14,724	22	5	14,548	23	5	14,371	22	5
	15,051	18	5	14,880	23	5	14,702	22	5	14,525	22	5	14,349	22	5
	15,033		5	14,857		5	14,680		5	14,503		5	14,327		5
	Plug to Plug	79	40	Plug to Plug	76	40	Plug to Plug	77	40	Plug to Plug	75	40	Plug to Plug	75	40
Frac Plug	15,201	Total Shots	Frac Plug	15,021	Total Shots	Frac Plug	14,845	Total Shots	Frac Plug	14,667	Total Shots	Frac Plug	14,490	Total Shots	

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From Bottom to Top		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots
	14,272	55	5	14,128	22	5	13,950	19	5	13,775	24	5	13,595	25	5
	14,255	17	5	14,106	22	5	13,929	22	5	13,754	24	5	13,576	22	5
	14,238	17	5	14,084	23	5	13,907	18	5	13,730	22	5	13,554	22	5
	14,221	17	5	14,061	21	5	13,889	26	5	13,708	22	5	13,532	22	5
	14,204	17	5	14,040	25	5	13,863	19	5	13,686	22	5	13,510	23	5
	14,187	19	5	14,015	20	5	13,844	25	5	13,664	22	5	13,487	22	5
	14,168	18	5	13,995	26	5	13,819	20	5	13,642	22	5	13,465	22	5
	14,150		5	13,969		5	13,799		5	13,620		5	13,443		5
	Plug to Plug	60	40	Plug to Plug	76	40	Plug to Plug	70	40	Plug to Plug	76	40	Plug to Plug	72	40
	Frac Plug	14,281	Total Shots	Frac Plug	14,137	Total Shots	Frac Plug	13,959	Total Shots	Frac Plug	13,784	Total Shots	Frac Plug	13,604	Total Shots

From Bottom to Top		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots
	13,416	27	5	13,235	32	5	13,068	25	5	12,889	24	5	12,716	21	5
	13,395	18	5	13,218	18	5	13,046	26	5	12,866	24	5	12,692	21	5
	13,377	22	5	13,200	22	5	13,020	18	5	12,842	18	5	12,671	23	5
	13,355	22	5	13,178	22	5	13,002	26	5	12,824	18	5	12,648	22	5
	13,333	22	5	13,156	22	5	12,976	19	5	12,806	22	5	12,626	22	5
	13,311	22	5	13,134	22	5	12,957	23	5	12,784	22	5	12,604	22	5
	13,289	22	5	13,112	19	5	12,934	21	5	12,762	25	5	12,582	22	5
	13,267		5	13,093		5	12,913		5	12,737		5	12,560		5
	Plug to Plug	70	40	Plug to Plug	66	40	Plug to Plug	81	40	Plug to Plug	79	40	Plug to Plug	77	40
	Frac Plug	13,425	Total Shots	Frac Plug	13,244	Total Shots	Frac Plug	13,083	Total Shots	Frac Plug	12,903	Total Shots	Frac Plug	12,725	Total Shots

Square Bill Federal Com #1H

<u>Perfs</u>	<u>7 1/2% Acid (Gal)</u>	<u>Sand (#)</u>	<u>Fluid (Gal)</u>
1	2562	361294	323022
2	1554	359611	293286
3	1512	358335	296352
4	1512	362587	296268
5	1512	360357	296604
6	1512	361830	288288
7	1512	362548	297822
8	1428	360859	325332
9	1596	360337	307146
10	1470	362555	302316
11	1512	363932	296856
12	1512	360861	297402
13	1512	361819	298032
14	1512	361743	297276
15	1470	361929	296898
16	1512	362262	295680
17	1512	362414	295722
18	1512	358985	294630
19	1344	361650	289170
20	1260	361815	290430
21	1260	362898	288456
22	1260	362120	298032
23	1260	361539	316008
24	1302	366436	284340
25	1260	362003	282324
26	1260	362702	290556
27	1512	360037	285096
28	1554	357881	298536
29	1596	364199	293580
30	1512	362389	285306
31	1512	364717	303954
32	1554	362548	287616
33	882	359506	294756
34	1512	363244	281316
35	1512	361471	272664
36	1470	362604	295134
37	1512	361099	284634
38	1512	363364	300762
39	1512	361322	275562
40	1680	364165	292530
Totals	59,262	12,309,953	11,789,694