

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

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 - 025-44302	⁵ Pool Name Bradley; Bone Spring	⁶ Pool Code 7280
⁷ Property Code 320525	⁸ Property Name Tigercat Federal Com	⁹ Well Number 1H

II. ¹⁰ Surface Location

UL or lot no B	Section 8	Township 26S	Range 33E	Lot Idn	Feet from the 355	North/SouthLine North	Feet from the 1620	East/West line East	County Lea
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¹¹ Bottom Hole Location

UL or lot no P	Section 17	Township 26S	Range 33E	Lot Idn	Feet from the 279	North/South line South	Feet from the 968	East/West line East	County Lea
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 9/20/18	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
298751	Energy Transfer 2001 Bryan Street Ste., 3700 Dallas, TX 75201	G

IV. Well Completion Data

²¹ Spud Date 1/21/18	²² Ready Date 9/20/18	²³ TD 20302	²⁴ PBSD 20200	²⁵ Perforations 10,461-20,105	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2	13 3/8	882'	750		
12 1/4	9 5/8	4950'	1862		
8 3/4	5 1/2	20272	3240		
	2 7/8	9674			

V. Well Test Data

³¹ Date New Oil 9/20/18	³² Gas Delivery Date 09/20/18	³³ Test Date 9/24/18	³⁴ Test Length 24 Hrs	³⁵ Tbg. Pressure 970	³⁶ Csg. Pressure 1700
³⁷ Choke Size 30/64	³⁸ Oil 85	³⁹ Water 2813	⁴⁰ Gas 282		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: 11/05/18 Phone: 575-748-6962

OIL CONSERVATION DIVISION

Approved by:

Karen Sharp

Title:

Staff Mgr

Approval Date:

11-9-18

Documents 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.
NMNM0160973

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

COG OPERATING LLC

Contact: AMANDA AVERY

E-Mail: aaavery@concho.com

3a. Address

2208 W MAIN STREET
ARTESIA, NM 88210

3b. Phone No. (include area code)

Ph: 575-748-6940

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

Sec 8 T26S R33E NWNE 355FNL 1620FEL
32.064315 N Lat, 103.591003 W Lon

8. Well Name and No.

TIGERCAT FEDERAL COM 1H

9. API Well No.

30-025-44302

10. Field and Pool or Exploratory Area

BRADLEY; 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			
☐ 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 recomple 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 recomple 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.

07/02/18 Test annulus to 1500# Set CBP @ 20,200'. Test to 8470#. Good test. Perf 20,165-20,174' (60). Injection test.

07/21/18 to 08/07/18 Perf 10,438-19,775' (1620). Acdz w/163,076 gal 7 1/2%; frac w/18,767,400# sand & 17,256,743 gal fluid.

08/15/18 to 08/17/18 Drilled out CFP's. Clean down to CBP @ 20,200'.

08/22/18 - 8/25/18 Set 2 7/8" 6.5# L-80 tbg @ 9,674' @ packer @ 9,657.

09/19/18 Began flowing back & testing.

09/20/18 Date of first production.

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

**Electronic Submission #442748 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 11/06/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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

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

Documents pending BLM approvals will
subsequently be reviewed and scanned

or the United

(Instructions on page 2)

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

5. Lease Serial No.
NMNM0160973

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

HOBBS OGD
NOV 09 2018
RECEIVED

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator
COG OPERATING LLCContact: AMANDA AVERY
E-Mail: aavery@concho.com8. Lease Name and Well No.
TIGERCAT FEDERAL COM 1H3. Address
2208 W MAIN STREET
ARTESIA, NM 882103a. Phone No. (include area code)
Ph: 575-748-8467

9. API Well No.

30-025-44302

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

Sec 8 T26S R33E Mer NMP
At surface NWNE 355FNL 1620FEL 32.064315 N Lat, 103.591003 W Lon
Sec 8 T26S R33E Mer NMP
At top prod interval reported below NWNE 355FNL 1620FEL 32.064315 N Lat, 103.591003 W Lon
Sec 17 T26S R33E Mer NMP
At total depth SESE 279FSL 968FEL 32.037037 N Lat, 103.588907 W Lon

10. Field and Pool, or Exploratory
BRADLEY; BONE SPRING11. Sec., T., R., M., or Block and Survey
or Area Sec 8 T26S R33E Mer NMP12. County or Parish
LEA13. State
NM14. Date Spudded
01/21/201815. Date T.D. Reached
02/17/201816. Date Completed
☐ D & A ☒ Ready to Prod.
09/20/201817. Elevations (DF, KB, RT, GL)*
3322 GL18. Total Depth: MD 20302
TVD 1032119. Plug Back T.D.: MD 20200
TVD 1032120. Depth Bridge Plug Set: MD 20200
TVD 10321

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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
8.750	5.500 P110	17.0		20272		3240		0	
17.500	13.375 J55	54.5	0	882		750		0	
12.250	9.625 K55	40.0	0	4950		1862		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	9674	9657						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	10461	20105	10461 TO 20105		1620	
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
10461 TO 20105	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
09/20/2018	09/20/2018	24	→	85.0	282.0	2813.0			ELECTRIC PUMP SUB-SURFACE
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
30/64	970	1700.0	→	85	282	2813		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	
			→						
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 #442749 VERIFIED BY THE BLM WELL INFORMATION SYSTEM.

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

--SUBMITTED--

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	850			RSLR	850
TOS	1181			TOS	1181
BOS	4635			BOS	4635
LMAR	4870			LMAR	4870
BLCN	4894			BLCN	4894
FBSG	9993			FBSG	9993

32. Additional remarks (include plugging procedure):

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 #442749 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 11/06/2018

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 ****

From Bottom to Top	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots
	20,105	21	5	19,937	19	5	19,745	34	5	19,572	32	5	19,398	23	5
	20,084	21	5	19,913	26	5	19,730	18	5	19,552	19	5	19,376	22	5
	20,063	23	4	19,887	18	4	19,712	23	4	19,533	23	4	19,354	23	4
	20,040	15	4	19,869	26	4	19,689	22	4	19,510	22	4	19,331	20	4
	20,025	18	3	19,843	19	3	19,667		3	19,488	23	3	19,311	25	3
	20,007	26	3	19,824	23	3	19,645	23	3	19,465	22	3	19,286	18	3
	19,981	25	3	19,801	22	3	19,622	18	3	19,443	22	3	19,268	27	3
	19,956		3	19,779		3	19,604		3	19,421		3	19,241		3
	Plug to Plug	75	30	Plug to Plug	78	30	Plug to Plug	64	30	Plug to Plug	74	30	Plug to Plug	78	30
	Frac Plug	20,115	Total Shots	Frac Plug	19,947	Total Shots	Frac Plug	19,753	Total Shots	Frac Plug	19,584	Total Shots	Frac Plug	19,409	Total Shots

From Bottom to Top	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots
	19,214	27	5	19,030	32	5	18,861	22	5	18,669	35	5	18,487	28	5
	19,197	23	5	19,017	22	5	18,838	22	5	18,659	22	5	18,480	27	5
	19,174	22	4	18,995	22	4	18,816	23	4	18,637	23	4	18,453	18	4
	19,152	23	4	18,973	23	4	18,793	22	4	18,614	20	4	18,435	22	4
	19,129	22	3	18,950	17	3	18,771	22	3	18,594	25	3	18,413	23	3
	19,107	22	3	18,933	28	3	18,749	23	3	18,569	19	3	18,390	22	3
	19,085	23	3	18,905	22	3	18,726	22	3	18,550	25	3	18,368	23	3
	19,062		3	18,883		3	18,704		3	18,525		3	18,345		3
	Plug to Plug	78	30	Plug to Plug	67	30	Plug to Plug	79	30	Plug to Plug	70	30	Plug to Plug	78	30
	Frac Plug	19,230	Total Shots	Frac Plug	19,040	Total Shots	Frac Plug	18,872	Total Shots	Frac Plug	18,684	Total Shots	Frac Plug	18,513	Total Shots

From Bottom to Top	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots
	18,312	33	5	18,140	28	5	17,965	20	5	17,785	23	5	17,584	35	5
	18,298	18	5	18,124	25	5	17,942	22	5	17,673	-70	5	17,584	23	5
	18,278	22	4	18,099	26	4	17,920	33	4	17,743	25	4	17,561	22	4
	18,256	23	4	18,073	19	4	17,887	12	4	17,718	26	4	17,539	22	4
	18,233	22	3	18,054	24	3	17,875	22	3	17,682	19	3	17,547	20	3
	18,211	22	3	18,030	21	3	17,853	23	3	17,673	25	3	17,487	25	3
	18,189	21	3	18,009	24	3	17,830	22	3	17,648	19	3	17,472	18	3
	18,168		3	17,985		3	17,808		3	17,629		3	17,454		3
	Plug to Plug	67	30	Plug to Plug	79	30	Plug to Plug	89	30	Plug to Plug	79	30	Plug to Plug	63	30
	Frac Plug	18,323	Total Shots	Frac Plug	18,152	Total Shots	Frac Plug	17,976	Total Shots	Frac Plug	17,797	Total Shots	Frac Plug	17,602	Total Shots

From Bottom to Top	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots
	17,426	28	5	17,248	22	5	17,063	28	5	16,886	26	5	16,710	25	5
	17,401	19	5	17,225	22	5	17,046	22	5	16,867	22	5	16,692	27	5
	17,382	25	4	17,203	22	4	17,024	23	4	16,845	23	4	16,665	25	4
	17,357	20	4	17,181	22	4	17,001	22	4	16,822	22	4	16,640	19	4
	17,337	22	3	17,159	23	3	16,979	22	3	16,800	23	3	16,621	25	3
	17,315	22	3	17,136	20	3	16,957	23	3	16,777	22	3	16,596	20	3
	17,293	23	3	17,116	25	3	16,934	22	3	16,755	20	3	16,576	23	3
	17,270		3	17,091		3	16,912		3	16,735		3	16,553		3
	Plug to Plug	79	30	Plug to Plug	78	30	Plug to Plug	79	30	Plug to Plug	68	30	Plug to Plug	81	30
	Frac Plug	17,436	Total Shots	Frac Plug	17,259	Total Shots	Frac Plug	17,080	Total Shots	Frac Plug	16,890	Total Shots	Frac Plug	16,721	Total Shots

From Bottom to Top	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots
	16,531	22	5	16,338	36	5	16,158	37	5	15,989	27	5	15,814	23	5
	16,509	23	5	16,322	22	5	16,142	16	5	15,974	25	5	15,792	23	5
	16,486	22	4	16,300	15	4	16,126	21	4	15,949	28	4	15,769	22	4
	16,464	23	4	16,285	28	4	16,105	22	4	15,921	17	4	15,747	20	4
	16,441	22	3	16,257	17	3	16,083	22	3	15,904	28	3	15,727	25	3
	16,419	22	3	16,240	25	3	16,061	23	3	15,876	17	3	15,702	26	3
	16,397	23	3	16,215	20	3	16,038	22	3	15,859	22	3	15,676	18	3
	16,374		3	16,195		3	16,016		3	15,837		3	15,658		3
	Plug to Plug	78	30	Plug to Plug	73	30	Plug to Plug	65	30	Plug to Plug	79	30	Plug to Plug	78	30
	Frac Plug	16,542	Total Shots	Frac Plug	16,358	Total Shots	Frac Plug	16,170	Total Shots	Frac Plug	16,000	Total Shots	Frac Plug	15,825	Total Shots

From Bottom to Top	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots	Depth	Distance Between Perfs	Shots
	15,633	25	5	15,450	28	5	15,277	26	5	15,091	29	5	14,907	34	5
	15,613	23	5	15,433	22	5	15,250	18	5	15,075	22	5	14,896	23	5
	15,590	22	4	15,411	22	4	15,232	24	4	15,053	23	4	14,873	22	4
	15,568	23	4	15,389	23	4	15,208	21	4	15,030	21	4	14,851	22	4
	15,545	22	3	15,366	22	3	15,187	22	3	15,009	24	3	14,829	23	3
	15,523	22	3	15,344	23	3	15,165	23	3	14,985	18	3	14,806	22	3
	15,501	23	3	15,321	18	3	15,142	22	3	14,967	26	3	14,784	23	3
	15,478		3	15,303		3	15,120		3	14,941		3	14,761		3
	Plug to Plug	80	30	Plug to Plug	71	30	Plug to Plug	80	30	Plug to Plug	70	30	Plug to Plug	66	30
	Frac Plug	15,648	Total Shots	Frac Plug	15,460	Total Shots	Frac Plug	15,288	Total Shots	Frac Plug	15,100	Total Shots	Frac Plug	14,917	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
	14,734	27	5	14,560	22	5	14,382	21	5	14,201	23	5	14,022	24	5
	14,719	25	5	14,537	22	5	14,358	19	5	14,179	22	5	14,003	26	5
	14,694	25	4	14,515	22	4	14,339	26	4	14,157	23	4	13,977	27	4
	14,669	20	4	14,493	23	4	14,313	25	4	14,134	22	4	13,950	17	4
	14,649	23	3	14,470	22	3	14,288	19	3	14,112	22	3	13,933	24	3
	14,626	21	3	14,448	23	3	14,269	23	3	14,090	23	3	13,909	21	3
	14,605	23	3	14,425	22	3	14,246	22	3	14,067	21	3	13,888	23	3
	14,582		3	14,403		3	14,224		3	14,046		3	13,865		3
	Plug to Plug	75	30	Plug to Plug	78	30	Plug to Plug	79	30	Plug to Plug	84	30	Plug to Plug	81	30
	Frac Plug	14,744	Total Shots	Frac Plug	14,571	Total Shots	Frac Plug	14,392	Total Shots	Frac Plug	14,218	Total Shots	Frac Plug	14,031	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
	13,843	22	5	13,658	28	5	13,485	22	5	13,305	23	5	13,126	29	5
	13,821	23	5	13,641	19	5	13,462	22	5	13,285	24	5	13,102	21	5
	13,798	22	4	13,622	25	4	13,440	23	4	13,261	20	4	13,081	22	4
	13,776	22	4	13,597	24	4	13,417	22	4	13,241	25	4	13,059	22	4
	13,754	23	3	13,573	21	3	13,395	22	3	13,216	28	3	13,037	23	3
	13,731	21	3	13,552	23	3	13,373	23	3	13,188	17	3	13,014	22	3
	13,710	24	3	13,529	22	3	13,350	22	3	13,171	16	3	12,992	23	3
	13,686		3	13,507		3	13,328		3	13,155		3	12,969		3
	Plug to Plug	78	30	Plug to Plug	78	30	Plug to Plug	83	30	Plug to Plug	76	30	Plug to Plug	78	30
	Frac Plug	13,854	Total Shots	Frac Plug	13,675	Total Shots	Frac Plug	13,500	Total Shots	Frac Plug	13,317	Total Shots	Frac Plug	13,137	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
	12,947	22	5	12,765	25	5	12,582	22	5	12,409	23	5	12,230	23	5
	12,925	23	5	12,745	22	5	12,566	22	5	12,387	22	5	12,208	23	5
	12,902	22	4	12,723	22	4	12,544	27	4	12,365	23	4	12,185	20	4
	12,880	22	4	12,701	23	4	12,517	18	4	12,342	27	4	12,165	24	4
	12,858	23	3	12,678	22	3	12,499	23	3	12,315	18	3	12,141	23	3
	12,835	28	3	12,656	23	3	12,476	22	3	12,297	25	3	12,118	22	3
	12,807	17	3	12,633	22	3	12,454	22	3	12,272	19	3	12,096	23	3
	12,790		3	12,611		3	12,432		3	12,253		3	12,073		3
	Plug to Plug	78	30	Plug to Plug	78	30	Plug to Plug	74	30	Plug to Plug	79	30	Plug to Plug	82	30
	Frac Plug	12,958	Total Shots	Frac Plug	12,779	Total Shots	Frac Plug	12,591	Total Shots	Frac Plug	12,421	Total Shots	Frac Plug	12,247	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
	12,051	22	5	11,870	24	5	11,693	27	5	11,513	23	5	11,329	28	5
	12,029	20	5	11,849	22	5	11,670	22	5	11,491	22	5	11,312	23	5
	12,009	25	4	11,827	22	4	11,648	23	4	11,469	23	4	11,289	22	4
	11,984	20	4	11,805	23	4	11,625	22	4	11,446	22	4	11,267	22	4
	11,964	25	3	11,782	22	3	11,603	22	3	11,424	23	3	11,245	23	3
	11,939	25	3	11,760	23	3	11,581	23	3	11,401	18	3	11,222	22	3
	11,914	20	3	11,737	17	3	11,558	22	3	11,383	26	3	11,200	23	3
	11,894		3	11,720		3	11,536		3	11,357		3	11,177		3
	Plug to Plug	78	30	Plug to Plug	78	30	Plug to Plug	79	30	Plug to Plug	79	30	Plug to Plug	52	30
	Frac Plug	12,062	Total Shots	Frac Plug	11,883	Total Shots	Frac Plug	11,704	Total Shots	Frac Plug	11,525	Total Shots	Frac Plug	11,319	Total Shots

From Bottom to Top		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots		Distance Between Perfs	Shots	Stage 55	Distance Between Perfs	Shots
	11,148	29	5	10,976	27	5	10,797	22	5	10,611	29	5		10461	
	11,130	20	5	10,953	22	5	10,774	22	5	10,595	25	5			
	11,110	21	4	10,931	24	4	10,752	23	4	10,570	20	4			
	11,089	24	4	10,907	21	4	10,729	22	4	10,550	22	4			
	11,065	18	3	10,886	22	3	10,707	22	3	10,528	23	3			
	11,047	26	3	10,864	23	3	10,685	19	3	10,505	22	3			
	11,021	18	3	10,841	22	3	10,666	26	3	10,483	22	3			
	11,003		3	10,819		3	10,640		3	10,461		3			
	Plug to Plug	70	30	Plug to Plug	80	30	Plug to Plug	79	30	Plug to Plug	79	30	Plug to Plug	0	0
	Frac Plug	11,159	Total Shots	Frac Plug	10,987	Total Shots	Frac Plug	10,808	Total Shots	Frac Plug	10,629	Total Shots	Frac Plug		Total Shots

Tigercat Federal Com #1H

<u>Perfs</u>	<u>7 1/2% Acid (Gal)</u>	<u>Sand (#)</u>	<u>Fluid (Gal)</u>
1	5502	361870	365400
2	3024	359540	347451
3	3024	362480	333858
4	3024	361490	333018
5	3000	362420	333002
6	3024	359160	369684
7	3024	361780	322434
8	3024	367270	320208
9	2940	357000	319746
10	3012	360800	321372
11	3822	362300	377202
12	3024	362490	343896
13	3012	362420	319902
14	3012	365440	318012
15	3012	363600	318810
16	3012	362180	319818
17	3096	364070	314316
18	3024	358500	344358
19	3066	364980	314748
20	3054	370220	322698
21	3066	362800	310304
22	3012	368010	310578
23	3054	360940	310662
24	3012	361900	306672
25	3012	359140	341364
26	3024	363220	317856
27	3066	363140	309372
28	3012	364280	359088
29	3054	333390	292854
30	3066	362200	368718
31	3024	351960	321384
32	3054	361840	312552
33	3024	362260	308280
34	3012	363300	311208
35	3012	332370	292224
36	3000	363980	301956
37	3012	361040	302262
38	3012	358620	298944
39	3012	362920	363586
40	3024	359890	297486
41	3000	360080	306450
42	3024	368360	300216
43	3012	359920	320070
44	3000	361260	303720
45	3012	355200	334896
46	3012	364800	299784
47	3012	360180	307470
48	3012	364900	300624
49	3024	361120	300216
50	3012	361440	305244
51	3024	357900	285348
52	3012	362160	298650
53	3024	365460	296184
54	3024	367880	300594
Totals	166,494	19,497,870	17,256,743