

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.
NMNM03358

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 27. If Unit or CA/Agreement, Name and/or No.
NMNM137683

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other8. Well Name and No.
NEBU 604 COM 3H

2. Name of Operator

BP AMERICA PRODUCTION COMPANY

Contact: NAOMI AZULAI

Email: Naomi.Azulai@bpx.com

9. API Well No.
30-045-35829-00-X1

3a. Address

380 AIRPORT RD
DURANGO, CO 81303

3b. Phone No. (include area code)

Ph: 970-232-1439

10. Field and Pool or Exploratory Area
BASIN MANCOS

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

Sec 13 T31N R7W SWNW 1909FNL 587FWL
36.901531 N Lat, 107.529266 W Lon

11. County or Parish, State

SAN JUAN 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	Drilling Operations
	<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 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.

3/26/2018 - 4/17/2018: 48 stages perforated and fracture stimulated - see detailed reports attached.

Tubing has not been run in the well. A request to delay tubing installation will be provided separately.

The As Drilled surface location for the subject well is: Sec 13 T31N R07W SWNW 1909 FNL & 587 FWL

As Built C-102 attached.

4/18/2018 ? Well shut in after last frac stage.

5/21/2018 ? MIRU CTU.

NMOC
SEP 05 2018
DISTRICT III

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

Electronic Submission #433810 verified by the BLM Well Information System
For BP AMERICA PRODUCTION COMPANY, sent to the Farmington
Committed to AFMSS for processing by WILLIAM TAMBEKOU on 09/05/2018 (18WMT1156SE)

Name (Printed/Typed) NAOMI AZULAI

Title WELL PERMITTING ANALYST

Signature (Electronic Submission)

Date 09/04/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

ACCEPTED

WILLIAM TAMBEKOU
Title PETROLEUM ENGINEER

Date 09/05/2018

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 Farmington

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)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

NMOC

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Additional data for EC transaction #433810 that would not fit on the form

32. Additional remarks, continued

5/22/2018 - RIH, CIR, CO and DO frac plugs.

5/23/2018 ? Continue CIR, CO and DO frac plugs. CO to 16,090?.

5/28/2018 - Gas delivery.

District I
1625 N French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-9720

District II
811 S First St., Artesia, NM 88210
Phone (575) 748-1233 Fax (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6178 Fax (505) 334-6170

District IV
1220 S St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505
AS-DRILLED PLAT

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35829		² Pool Code 97232	³ Pool Name Mancos Gas
⁴ Property Code 317305	⁵ Property Name Northeast Blanco Unit 604 Com		⁶ Well Number 3H
⁷ OGRID No. 000778	⁸ Operator Name BP America Production Company		⁹ Elevation 6501

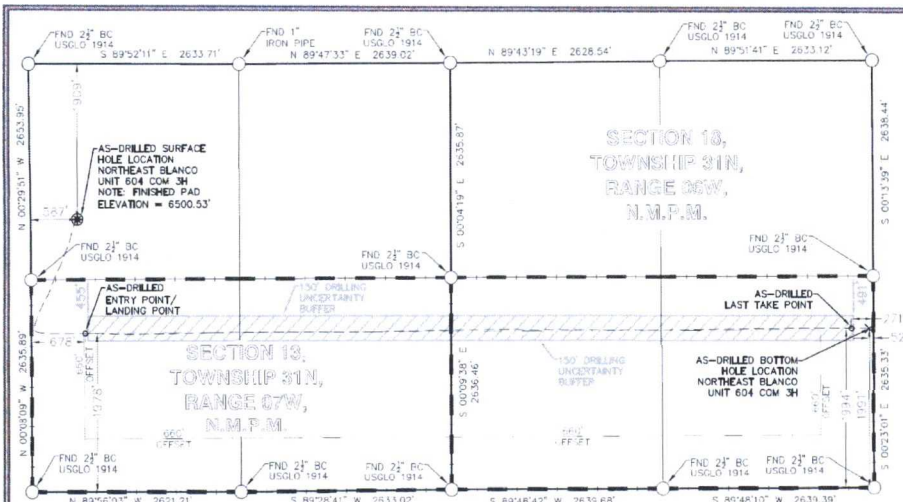
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
E	13	31N	07W		1909	North	587	West	San Juan

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
I	18	31N	06W		1991	South	52	East	San Juan

¹² Dedicated Acres 640 - S/2 - SEC. 13 S/2 - SEC. 18	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.			



LEGEND
FOUND MONUMENT O
AS-DRILLED SURFACE HOLE LOCATION ●
AS-DRILLED BOTTOM HOLE LOCATION X

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or retained mineral interest in the land including the proposed location hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *R Marshall* Date: 05/07/2018

Printed Name: Randall Marshall
E-mail Address: randall.marshall@bp.com

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: 7-22-16
Signature and Seal of Professional Surveyor:

Certificate Number: 17078
Professional Surveyor: MARSHALL W. LINDEEN
NEW MEXICO
5-7-18

NEBU 604 COM 3H	NMWZ NAD'83	NAD'83	TIES
AS-DRILLED SURFACE HOLE LOCATION (SHL)	N (Y) = 2,147,626.66' E (X) = 2,811,995.27'	LAT. = 36.90153467°N LON. = 107.52926944°W	FNL = 1909' FWL = 587'
AS-DRILLED ENTRY POINT (EP)/LANDING POINT (LP)	N (Y) = 2,146,224.13' E (X) = 2,812,094.16'	LAT. = 36.89768142°N LON. = 107.52894653°W	FSL = 1978' FWL = 678'
AS-DRILLED LAST TAKE POINT (LTP)	N (Y) = 2,146,278.67' E (X) = 2,821,668.96'	LAT. = 36.89774283°N LON. = 107.49620073°W	FSL = 1994' FEL = 271'
AS-DRILLED BOTTOM HOLE LOCATION (BHL)	N (Y) = 2,146,276.52' E (X) = 2,821,888.93'	LAT. = 36.89773478°N LON. = 107.49544847°W	FSL = 1991' FEL = 52'

NEBU 604-3H 30-045-35829

Perforation Report March 26, 2018 to April 17, 2018

3 1/8 gun used to make 0.430" diam. holes at 60 degree phasing. 4 spf. 8 holes/cluster (except stage 1)

Stage	Cluster #1		Cluster #2		Cluster #3		Cluster #4		Cluster #5		Cluster #6		Cluster #7		Cluster #8		Holes/Stage
	top	bottom	top	bottom	top	bottom	top	bottom	top	bottom	top	bottom	top	bottom	top	bottom	
1	toe sleeve @	17,169	17,122	17,120	17,101	17,099	17,079	17,077	17,058	17,056	17,037	17,035	17,016	17,014	16,995	16,993	56
2	16,943	16,941	16,921	16,919	16,900	16,898	16,879	16,877	16,858	16,856	16,837	16,835	16,816	16,814	16,794	16,792	64
3	16,742	16,740	16,721	16,719	16,700	16,698	16,679	16,677	16,658	16,656	16,636	16,634	16,615	16,613	16,594	16,592	64
4	16,542	16,540	16,521	16,519	16,500	16,498	16,478	16,476	16,457	16,455	16,436	16,434	16,415	16,413	16,394	16,392	64
5	16,403	16,401	16,374	16,372	16,345	16,343	16,316	16,314	16,287	16,285	16,258	16,256	16,229	16,227	16,200	16,198	64
6	16,141	16,139	16,120	16,118	16,099	16,097	16,078	16,076	16,059	16,057	16,035	16,033	16,014	16,012	15,993	15,991	64
7	15,941	15,939	15,920	15,918	15,899	15,897	15,877	15,875	15,856	15,854	15,835	15,833	15,814	15,812	15,793	15,791	64
8	15,741	15,739	15,720	15,718	15,699	15,697	15,677	15,675	15,656	15,654	15,635	15,633	15,616	15,614	15,592	15,590	64
9	15,540	15,538	15,519	15,517	15,498	15,496	15,477	15,475	15,456	15,454	15,434	15,432	15,413	15,411	15,392	15,390	64
10	15,340	15,338	15,319	15,317	15,298	15,296	15,276	15,274	15,252	15,250	15,234	15,232	15,213	15,211	15,192	15,190	64
11	15,140	15,138	15,119	15,117	15,097	15,095	15,076	15,074	15,055	15,053	15,034	15,032	15,013	15,011	14,991	14,989	64
12	14,939	14,937	14,918	14,916	14,897	14,895	14,876	14,874	14,855	14,853	14,833	14,831	14,812	14,810	14,791	14,789	64
13	14,739	14,737	14,718	14,716	14,697	14,695	14,672	14,670	14,654	14,652	14,637	14,635	14,612	14,610	14,591	14,589	64
14	14,539	14,537	14,518	14,516	14,496	14,494	14,475	14,473	14,454	14,452	14,433	14,431	14,412	14,410	14,390	14,388	64
15	14,338	14,336	14,314	14,312	14,296	14,294	14,271	14,269	14,254	14,252	14,232	14,230	14,211	14,209	14,190	14,188	64
16	14,134	14,132	14,117	14,115	14,092	14,090	14,074	14,072	14,053	14,051	14,032	14,030	14,011	14,009	13,990	13,988	64
17	13,938	13,936	13,913	13,911	13,895	13,893	13,877	13,875	13,853	13,851	13,832	13,830	13,811	13,809	13,789	13,787	64
18	13,733	13,731	13,716	13,714	13,695	13,693	13,674	13,672	13,653	13,651	13,631	13,629	13,610	13,608	13,589	13,587	64
19	13,537	13,535	13,518	13,516	13,495	13,493	13,473	13,471	13,452	13,450	13,431	13,429	13,410	13,408	13,389	13,387	64
20	13,339	13,337	13,316	13,314	13,295	13,293	13,273	13,271	13,252	13,250	13,231	13,229	13,210	13,208	13,188	13,186	64
21	13,136	13,134	13,115	13,113	13,094	13,092	13,073	13,071	13,052	13,050	13,030	13,028	13,009	13,007	12,988	12,986	64
22	12,936	12,934	12,915	12,913	12,894	12,892	12,873	12,871	12,851	12,849	12,830	12,828	12,809	12,807	12,788	12,786	64
23	12,736	12,734	12,715	12,713	12,693	12,691	12,672	12,670	12,651	12,649	12,630	12,628	12,609	12,607	12,587	12,585	64
24	12,535	12,533	12,514	12,512	12,493	12,491	12,472	12,470	12,451	12,449	12,429	12,427	12,408	12,406	12,385	12,383	64
25	12,335	12,333	12,314	12,312	12,293	12,291	12,272	12,270	12,250	12,248	12,229	12,227	12,208	12,206	12,187	12,185	64
26	12,135	12,133	12,114	12,112	12,092	12,090	12,071	12,069	12,050	12,048	12,029	12,027	12,008	12,006	11,986	11,984	64
27	11,934	11,932	11,913	11,911	11,892	11,890	11,871	11,869	11,850	11,848	11,828	11,826	11,807	11,805	11,786	11,784	64
28	11,734	11,732	11,713	11,711	11,692	11,690	11,671	11,669	11,649	11,647	11,628	11,626	11,607	11,605	11,586	11,584	64
29	11,534	11,532	11,513	11,511	11,491	11,489	11,470	11,468	11,449	11,447	11,428	11,426	11,407	11,405	11,385	11,383	64
30	11,333	11,331	11,312	11,310	11,291	11,289	11,270	11,268	11,249	11,247	11,227	11,225	11,206	11,204	11,185	11,183	64
31	11,133	11,131	11,112	11,110	11,091	11,089	11,070	11,068	11,048	11,046	11,027	11,025	11,006	11,004	10,985	10,983	64
32	10,933	10,931	10,912	10,910	10,890	10,888	10,869	10,867	10,848	10,846	10,827	10,825	10,806	10,804	10,784	10,782	64
33	10,732	10,730	10,711	10,709	10,690	10,688	10,669	10,667	10,648	10,646	10,626	10,624	10,605	10,603	10,584	10,582	64
34	10,532	10,530	10,511	10,509	10,490	10,488	10,469	10,467	10,447	10,445	10,426	10,424	10,405	10,403	10,384	10,382	64
35	10,332	10,330	10,311	10,309	10,289	10,287	10,268	10,266	10,247	10,245	10,226	10,224	10,205	10,203	10,183	10,181	64
36	10,131	10,129	10,110	10,108	10,089	10,087	10,068	10,066	10,047	10,045	10,025	10,023	10,004	10,002	9,983	9,981	64
37	9,931	9,929	9,910	9,908	9,889	9,887	9,868	9,866	9,846	9,844	9,825	9,823	9,804	9,802	9,783	9,781	64
38	9,727	9,725	9,710	9,708	9,688	9,686	9,667	9,665	9,646	9,644	9,625	9,623	9,604	9,602	9,582	9,580	64
39	9,530	9,528	9,510	9,508	9,488	9,486	9,467	9,465	9,446	9,444	9,425	9,423	9,403	9,401	9,382	9,380	64
40	9,330	9,328	9,309	9,307	9,288	9,286	9,267	9,265	9,245	9,243	9,224	9,222	9,203	9,201	9,182	9,180	64
41	9,130	9,128	9,109	9,107	9,087	9,085	9,066	9,064	9,045	9,043	9,024	9,022	9,003	9,001	8,981	8,979	64
42	8,932	8,930	8,908	8,906	8,887	8,885	8,866	8,864	8,845	8,843	8,824	8,822	8,802	8,800	8,781	8,779	64
43	8,729	8,727	8,708	8,706	8,687	8,685	8,666	8,664	8,644	8,642	8,623	8,621	8,602	8,600	8,581	8,579	64
44	8,529	8,527	8,508	8,506	8,486	8,484	8,465	8,463	8,444	8,442	8,423	8,421	8,402	8,400	8,380	8,378	64
45	8,328	8,326	8,307	8,305	8,286	8,284	8,265	8,263	8,244	8,242	8,223	8,221	8,201	8,199	8,180	8,178	64
46	8,128	8,126	8,107	8,105	8,086	8,084	8,065	8,063	8,043	8,041	8,022	8,020	8,001	7,999	7,980	7,978	64
47	7,928	7,926	7,907	7,905	7,885	7,883	7,864	7,862	7,843	7,841	7,822	7,820	7,801	7,799	7,779	7,777	64
48	7,727	7,725	7,706	7,704	7,685	7,683	7,664	7,662	7,643	7,641	7,622	7,620	7,600	7,598	7,583	7,581	64

NEBU 604 COM 3H
Completion Frac Report

Interval 1 4/1/2018	(17169-16993): With 1000 gal 15% HCL Acid, 15925 bbls Treated Slick Water, 103600 lbs Common White - 100 Mesh proppant, 394500 lbs Premium White - 40/70 proppant. Max rate of 91.5 bpm, average rate of 90.0 bpm with max pressure of 9144 psi and average pressure of 7087 psi.
Interval 2 4/1/2018	(16943-16792): With 1000 gal 15% HCL Acid, 11277 bbls Treated Slick Water, 90265 lbs Common White - 100 Mesh proppant, 86225 lbs Premium White - 40/70 proppant. Max rate of 91.0 bpm, average rate of 87.0bpm with max pressure of 8351 psi and average pressure of 6459 psi.
Interval 3 4/1/2018	(16742-16592): With 1000 gal 15% HCL Acid, 9109 bbls Treated Slick Water, 73900 lbs Common White - 100 Mesh proppant, 278000 lbs Premium White - 40/70 proppant. Max rate of 90.7 bpm, average rate of 90.3 bpm with max pressure of 8630 psi and average pressure of 6889 psi.
Interval 4 SKIPPED	(16542-16392):
Interval 5 4/6/2018	(16403-16198): With 1000 gal 15% HCL Acid, 10066 bbls Treated Slick Water, 85720 lbs Common White - 100 Mesh proppant, 325516 lbs Premium White - 40/70 proppant. Max rate of 90.5 bpm, average rate of 87.3 bpm with max pressure of 7013 psi and average pressure of 6499 psi.
Interval 6 4/6/2018	(16141-15991): With 1000 gal 15% HCL Acid, 11203 bbls Treated Slick Water, 100977 lbs Common White - 100 Mesh proppant, 348020 lbs Premium White - 40/70 proppant. Max rate of 90.4 bpm, average rate of 90.3 bpm with max pressure of 7005 psi and average pressure of 6457 psi.
Interval 7 4/6/2018	(15941-15791): With 1000 gal 15% HCL Acid, 11883 bbls Treated Slick Water, 100010 lbs Common White - 100 Mesh proppant, 398430 lbs Premium White - 40/70 proppant. Max rate of 94.9 bpm, average rate of 88.8 bpm with max pressure of 7230 psi and average pressure of 6819 psi.
Interval 8 4/7/2018	(15741-15590): With 1000 gal 15% HCL Acid, 11121 bbls Treated Slick Water, 105500 lbs Common White - 100 Mesh proppant, 321000 lbs Premium White - 40/70 proppant. Max rate of 90.4 bpm, average rate of 86.6 bpm with max pressure of 7487 psi and average pressure of 6723 psi.
Interval 9 4/7/2018	(15540-15390): With 1000 gal 15% HCL Acid, 12288 bbls Treated Slick Water, 101170 lbs Common White - 100 Mesh proppant, 437887 lbs Premium White - 40/70 proppant. Max rate of 90.0 bpm, average rate of 89.9 bpm with max pressure of 6797 psi and average pressure of 6372 psi.
Interval 10 4/7/2018	(15340-15190): With 1000 gal 15% HCL Acid, 12790 bbls Treated Slick Water, 100530 lbs Common White - 100 Mesh proppant, 399020 lbs Premium White - 40/70 proppant. Max rate of 90.3 bpm, average rate of 89.2 bpm with max pressure of 7112 psi and average pressure of 6380 psi.
Interval 11 4/8/2018	(15140-14989): With 1040 gal 15% HCL Acid, 13593 bbls Treated Slick Water, 100960 lbs Common White - 100 Mesh proppant, 389080 lbs Premium White - 40/70 proppant. Max rate of 91.5 bpm, average rate of 90.0 bpm with max pressure of 7270 psi and average pressure of 6947 psi.
Interval 12 4/8/2018	(14939-14789): With 1000 gal 15% HCL Acid, 13861 bbls Treated Slick Water, 99940 lbs Common White - 100 Mesh proppant, 395880 lbs Premium White - 40/70 proppant. Max rate of 90.2 bpm, average rate of 89.0 bpm with max pressure of 6995 psi and average pressure of 6301 psi.
Interval 13 4/8/2018	(14739-14589): With 1000 gal 15% HCL Acid, 12817 bbls Treated Slick Water, 101200 lbs Common White - 100 Mesh proppant, 365600 lbs Premium White - 40/70 proppant. Max rate of 92.0 bpm, average rate of 85.6 bpm with max pressure of 7714 psi and average pressure of 6525 psi.
Interval 14 4/8/2018	(14539-14388): With 1000 gal 15% HCL Acid, 12988 bbls Treated Slick Water, 102425 lbs Common White - 100 Mesh proppant, 394100 lbs Premium White - 40/70 proppant. Max rate of 91.3 bpm, average rate of 90.7 bpm with max pressure of 7232 psi and average pressure of 6693 psi.
Interval 15 4/9/2018	(14338-14188): With 1000 gal 15% HCL Acid, 12944 bbls Treated Slick Water, 100570 lbs Common White - 100 Mesh proppant, 400430 lbs Premium White - 40/70 proppant. Max rate of 91.0 bpm, average rate of 90.1 bpm with max pressure of 7044 psi and average pressure of 6588 psi.
Interval 16 4/9/2018	(14134-13988): With 1000 gal 15% HCL Acid, 12869 bbls Treated Slick Water, 97120 lbs Common White - 100 Mesh proppant, 405034 lbs Premium White - 40/70 proppant. Max rate of 98.0 bpm, average rate of 90.2 bpm with max pressure of 6629 psi and average pressure of 6149 psi.

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Completion Frac Report

Interval 17 4/9/2018	(13938-13787): With 1000 gal 15% HCL Acid, 12723 bbls Treated Slick Water, 101420 lbs Common White - 100 Mesh proppant, 397500 lbs Premium White - 40/70 proppant. Max rate of 92.0 bpm, average rate of 90.3 bpm with max pressure of 6731 psi and average pressure of 6230 psi.
Interval 18 4/9/2018	(13733-13587): With 1000 gal 15% HCL Acid, 12945 bbls Treated Slick Water, 100780 lbs Common White - 100 Mesh proppant, 389600 lbs Premium White - 40/70 proppant. Max rate of 90.3 bpm, average rate of 89.5 bpm with max pressure of 8037 psi and average pressure of 6429 psi.
Interval 19 4/10/2018	(13537-13387): With 1000 gal 15% HCL Acid, 12913 bbls Treated Slick Water, 100140 lbs Common White - 100 Mesh proppant, 400050 lbs Premium White - 40/70 proppant. Max rate of 91.1 bpm, average rate of 90.4 bpm with max pressure of 6928 psi and average pressure of 6532 psi.
Interval 20 4/10/2018	(13339-13186): With 1000 gal 15% HCL Acid, 13056 bbls Treated Slick Water, 89760 lbs Common White - 100 Mesh proppant, 410200 lbs Premium White - 40/70 proppant. Max rate of 90.5 bpm, average rate of 90.0 bpm with max pressure of 6901 psi and average pressure of 6464 psi.
Interval 21 4/10/2018	(13136-12986): With 1000 gal 15% HCL Acid, 13786 bbls Treated Slick Water, 88876 lbs Common White - 100 Mesh proppant, 406340 lbs Premium White - 40/70 proppant. Max rate of 90.8 bpm, average rate of 90.0 bpm with max pressure of 6744 psi and average pressure of 6464 psi.
Interval 22 5/10/2018	(12936-12786): With 1000 gal 15% HCL Acid, 12563 bbls Treated Slick Water, 100610 lbs Common White - 100 Mesh proppant, 400730 lbs Premium White - 40/70 proppant. Max rate of 91.9 bpm, average rate of 89.7 bpm with max pressure of 6520 psi and average pressure of 6192 psi.
Interval 23 5/11/2018	(12736-12585): With 1024 gal 15% HCL Acid, 12626 bbls Treated Slick Water, 98760 lbs Common White - 100 Mesh proppant, 401510 lbs Premium White - 40/70 proppant. Max rate of 91.4 bpm, average rate of 90.1 bpm with max pressure of 6915 psi and average pressure of 6222 psi.
Interval 24 5/11/2018	(12535-12383): With 1000 gal 15% HCL Acid, 13104 bbls Treated Slick Water, 100000 lbs Common White - 100 Mesh proppant, 400000 lbs Premium White - 40/70 proppant. Max rate of 93.0 bpm, average rate of 89.7 bpm with max pressure of 6933 psi and average pressure of 6292 psi.
Interval 25 5/11/2018	(12335-12185): With 1000 gal 15% HCL Acid, 15855 bbls Treated Slick Water, 100000 lbs Common White - 100 Mesh proppant, 400000 lbs Premium White - 40/70 proppant. Max rate of 91.5 bpm, average rate of 88.6 bpm with max pressure of 6494 psi and average pressure of 6130 psi.
Interval 26 5/21/2018	(12135-11984): With 1000 gal 15% HCL Acid, 12572 bbls Treated Slick Water, 100300 lbs Common White - 100 Mesh proppant, 400550 lbs Premium White - 40/70 proppant. Max rate of 91.3 bpm, average rate of 90.8 bpm with max pressure of 6348 psi and average pressure of 6059 psi.
Interval 27 5/12/2018	(11934-11784): With 1000 gal 15% HCL Acid, 12534 bbls Treated Slick Water, 99850 lbs Common White - 100 Mesh proppant, 400440 lbs Premium White - 40/70 proppant. Max rate of 92.7 bpm, average rate of 90.72 bpm with max pressure of 6416 psi and average pressure of 5983 psi.
Interval 28 5/12/2018	(11734-11584): With 1467 gal 15% HCL Acid, 12949 bbls Treated Slick Water, 100490 lbs Common White - 100 Mesh proppant, 400000 lbs Premium White - 40/70 proppant. Max rate of 93.0 bpm, average rate of 90.0 bpm with max pressure of 6589 psi and average pressure of 6041 psi.
Interval 29 5/12/2018	(11534-11383): With 1000 gal 15% HCL Acid, 11249 bbls Treated Slick Water, 105400 lbs Common White - 100 Mesh proppant, 275000 lbs Premium White - 40/70 proppant. Max rate of 90.7 bpm, average rate of 90.4 bpm with max pressure of 6099 psi and average pressure of 6095 psi.
Interval 30 5/13/2018	(11333-11183): With 1000 gal 15% HCL Acid, 12704 bbls Treated Slick Water, 100260 lbs Common White - 100 Mesh proppant, 400930 lbs Premium White - 40/70 proppant. Max rate of 91.8 bpm, average rate of 90.7 bpm with max pressure of 6490 psi and average pressure of 6183 psi.
Interval 31 5/13/2018	(11133-10983): With 1000 gal 15% HCL Acid, 12591 bbls Treated Slick Water, 100322 lbs Common White - 100 Mesh proppant, 400160 lbs Premium White - 40/70 proppant. Max rate of 91.0 bpm, average rate of 90.8 bpm with max pressure of 6571 psi and average pressure of 6273 psi.
Interval 32 5/13/2018	(10933-10782): With 1000 gal 15% HCL Acid, 12427 bbls Treated Slick Water, 99818 lbs Common White - 100 Mesh proppant, 400000 lbs Premium White - 40/70 proppant. Max rate of 91.0 bpm, average rate of 91.0 bpm with max pressure of 6665 psi and average pressure of 6280 psi.

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Interval 33 5/13/2018	(10732-10582):	With 1000 gal 15% HCL Acid, 12745 bbls Treated Slick Water, 100000 lbs Common White - 100 Mesh proppant, 400000 lbs Premium White - 40/70 proppant. Max rate of 95.0 bpm, average rate of 90.7 bpm with max pressure of 7497 psi and average pressure of 6284 psi.
Interval 34 5/14/2018	(10532-10382):	With 1000 gal 15% HCL Acid, 12719 bbls Treated Slick Water, 100500 lbs Common White - 100 Mesh proppant, 400000 lbs Premium White - 40/70 proppant. Max rate of 97.0 bpm, average rate of 91.0 bpm with max pressure of 6990 psi and average pressure of 6077 psi.
Interval 35 5/14/2018	(10332-10181):	With 1000 gal 15% HCL Acid, 12223 bbls Treated Slick Water, 99750 lbs Common White - 100 Mesh proppant, 400240 lbs Premium White - 40/70 proppant. Max rate of 91.1 bpm, average rate of 90.1 bpm with max pressure of 6679 psi and average pressure of 6178 psi.
Interval 36 5/14/2018	(10131-9981):	With 1000 gal 15% HCL Acid, 12362 bbls Treated Slick Water, 99178 lbs Common White - 100 Mesh proppant, 399950 lbs Premium White - 40/70 proppant. Max rate of 90.4 bpm, average rate of 89.9 bpm with max pressure of 7310 psi and average pressure of 6377 psi.
Interval 37 5/14/2018	(9931-9781):	With 1000 gal 15% HCL Acid, 12248 bbls Treated Slick Water, 100000 lbs Common White - 100 Mesh proppant, 401000 lbs Premium White - 40/70 proppant. Max rate of 92.0 bpm, average rate of 91.0 bpm with max pressure of 6775 psi and average pressure of 6358 psi.
Interval 38 5/14/2018	(9727-9580):	With 1000 gal 15% HCL Acid, 12555 bbls Treated Slick Water, 99500 lbs Common White - 100 Mesh proppant, 400000 lbs Premium White - 40/70 proppant. Max rate of 91.0 bpm, average rate of 90.0 bpm with max pressure of 7055 psi and average pressure of 6331 psi.
Interval 39 5/15/2018	(9530-9380):	With 1000 gal 15% HCL Acid, 13475 bbls Treated Slick Water, 100000 lbs Common White - 100 Mesh proppant, 400000 lbs Premium White - 40/70 proppant. Max rate of 91.0 bpm, average rate of 90.6 bpm with max pressure of 8193 psi and average pressure of 6180 psi.
Interval 40 5/15/2018	(9330-9180):	With 1000 gal 15% HCL Acid, 13273 bbls Treated Slick Water, 100229 lbs Common White - 100 Mesh proppant, 400000 lbs Premium White - 40/70 proppant. Max rate of 91.0 bpm, average rate of 89.7 bpm with max pressure of 7831 psi and average pressure of 7173 psi.
Interval 41 5/15/2018	(9130-8979):	With 1000 gal 15% HCL Acid, 12165 bbls Treated Slick Water, 100296 lbs Common White - 100 Mesh proppant, 400590 lbs Premium White - 40/70 proppant. Max rate of 90.7 bpm, average rate of 89.2 bpm with max pressure of 8139 psi and average pressure of 7272 psi.
Interval 42 5/15/2018	(8932-8779):	With 1000 gal 15% HCL Acid, 12399 bbls Treated Slick Water, 100000 lbs Common White - 100 Mesh proppant, 400000 lbs Premium White - 40/70 proppant. Max rate of 92.0 bpm, average rate of 91.0 bpm with max pressure of 6976 psi and average pressure of 6473 psi.
Interval 43 5/16/2018	(8729-8579):	With 1000 gal 15% HCL Acid, 12196 bbls Treated Slick Water, 99980 lbs Common White - 100 Mesh proppant, 402020 lbs Premium White - 40/70 proppant. Max rate of 92.0 bpm, average rate of 91.0 bpm with max pressure of 7463 psi and average pressure of 6429 psi.
Interval 44 5/16/2018	(8529-8378):	With 1000 gal 15% HCL Acid, 11933 bbls Treated Slick Water, 100044 lbs Common White - 100 Mesh proppant, 4390950 lbs Premium White - 40/70 proppant. Max rate of 91.8 bpm, average rate of 89.0 bpm with max pressure of 8764 psi and average pressure of 6990 psi.
Interval 45 5/16/2018	(8328-8178):	With 1000 gal 15% HCL Acid, 122204 bbls Treated Slick Water, 100257 lbs Common White - 100 Mesh proppant, 399675 lbs Premium White - 40/70 proppant. Max rate of 91.9 bpm, average rate of 90.7 bpm with max pressure of 7331 psi and average pressure of 6899 psi.
Interval 46 5/16/2018	(8128-7978):	With 1000 gal 15% HCL Acid, 12039 bbls Treated Slick Water, 100504 lbs Common White - 100 Mesh proppant, 399875 lbs Premium White - 40/70 proppant. Max rate of 94.0 bpm, average rate of 90.0 bpm with max pressure of 6523 psi and average pressure of 5577 psi.
Interval 47 5/16/2018	(7928-7777):	With 1000 gal 15% HCL Acid, 11008 bbls Treated Slick Water, 97980 lbs Common White - 100 Mesh proppant, 403040 lbs Premium White - 40/70 proppant. Max rate of 91.0 bpm, average rate of 90.0 bpm with max pressure of 6600 psi and average pressure of 5824 psi.
Interval 48 5/17/2018	(7727-7581):	With 1000 gal 15% HCL Acid, 12254 bbls Treated Slick Water, 99905 lbs Common White - 100 Mesh proppant, 401290 lbs Premium White - 40/70 proppant. Max rate of 91.0 bpm, average rate of 90.0 bpm with max pressure of 6072 psi and average pressure of 5712 psi.

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.
NMNM03358

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NMNM1376838. Well Name and No.
NEBU 604 COM 3H9. API Well No.
30-045-35829-00-X110. Field and Pool or Exploratory Area
BASIN MANCOS11. County or Parish, State
SAN JUAN COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator
BP AMERICA PRODUCTION COMPANY
Contact: PATTI CAMPBELL
Email: patti.campbell@bpx.ocm3a. Address
380 AIRPORT RD
DURANGO, CO 813033b. Phone No. (include area code)
Ph: 970-712-5997

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

Sec 13 T31N R7W SWNW 1909FNL 587FWL
36.901531 N Lat, 107.529266 W Lon**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	Drilling Operations
	<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.

3/26/2018 - 4/17/2018: 48 stages perforated and fracture stimulated.

Please see detailed completion operation reports attached for the subject well.
Tubing has not been run in the well.

A request to delay tubing installation will be provided separately.

**Please note the As Drilled surface location for the subject well is:
Sec 13 T31N R07W SWNW 1909 FNL & 587 FWL

As Built C-102 attached.

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

**Electronic Submission #431357 verified by the BLM Well Information System
For BP AMERICA PRODUCTION COMPANY, sent to the Farmington
Committed to AFMSS for processing by JACK SAVAGE on 08/15/2018 (18JWS0186SE)**

Name (Printed/Typed) PATTI CAMPBELL

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 08/15/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED	JACK SAVAGE Title PETROLEUM ENGINEER	Date 08/15/2018
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 Farmington		

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)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ******NMOCD**

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Completion Frac Report

Interval 1 4/1/2018	(17169-16993): With 1000 gal 15% HCL Acid, 15925 bbls Treated Slick Water, 103600 lbs Common White - 100 Mesh proppant, 394500 lbs Premium White - 40/70 proppant. Max rate of 91.5 bpm, average rate of 90.0 bpm with max pressure of 9144 psi and average pressure of 7087 psi.
Interval 2 4/1/2018	(16943-16792): With 1000 gal 15% HCL Acid, 11277 bbls Treated Slick Water, 90265 lbs Common White - 100 Mesh proppant, 86225 lbs Premium White - 40/70 proppant. Max rate of 91.0 bpm, average rate of 87.0bpm with max pressure of 8351 psi and average pressure of 6459 psi.
Interval 3 4/1/2018	(16742-16592): With 1000 gal 15% HCL Acid, 9109 bbls Treated Slick Water, 73900 lbs Common White - 100 Mesh proppant, 278000 lbs Premium White - 40/70 proppant. Max rate of 90.7 bpm, average rate of 90.3 bpm with max pressure of 8630 psi and average pressure of 6889 psi.
Interval 4	(16542-16392): SKIPPED
Interval 5 4/6/2018	(16403-16198): With 1000 gal 15% HCL Acid, 10066 bbls Treated Slick Water, 85720 lbs Common White - 100 Mesh proppant, 325516 lbs Premium White - 40/70 proppant. Max rate of 90.5 bpm, average rate of 87.3 bpm with max pressure of 7013 psi and average pressure of 6499 psi.
Interval 6 4/6/2018	(16141-15991): With 1000 gal 15% HCL Acid, 11203 bbls Treated Slick Water, 100977 lbs Common White - 100 Mesh proppant, 348020 lbs Premium White - 40/70 proppant. Max rate of 90.4 bpm, average rate of 90.3 bpm with max pressure of 7005 psi and average pressure of 6457 psi.
Interval 7 4/6/2018	(15941-15791): With 1000 gal 15% HCL Acid, 11883 bbls Treated Slick Water, 100010 lbs Common White - 100 Mesh proppant, 398430 lbs Premium White - 40/70 proppant. Max rate of 94.9 bpm, average rate of 88.8 bpm with max pressure of 7230 psi and average pressure of 6819 psi.
Interval 8 4/7/2018	(15741-15590): With 1000 gal 15% HCL Acid, 11121 bbls Treated Slick Water, 105500 lbs Common White - 100 Mesh proppant, 321000 lbs Premium White - 40/70 proppant. Max rate of 90.4 bpm, average rate of 86.6 bpm with max pressure of 7487 psi and average pressure of 6723 psi.
Interval 9 4/7/2018	(15540-15390): With 1000 gal 15% HCL Acid, 12288 bbls Treated Slick Water, 101170 lbs Common White - 100 Mesh proppant, 4378877 lbs Premium White - 40/70 proppant. Max rate of 90.0 bpm, average rate of 89.9 bpm with max pressure of 6797 psi and average pressure of 6372 psi.
Interval 10 4/7/2018	(15340-15190): With 1000 gal 15% HCL Acid, 12790 bbls Treated Slick Water, 100530 lbs Common White - 100 Mesh proppant, 399020 lbs Premium White - 40/70 proppant. Max rate of 90.3 bpm, average rate of 89.2 bpm with max pressure of 7112 psi and average pressure of 6380 psi.
Interval 11 4/8/2018	(15140-14989): With 1040 gal 15% HCL Acid, 13593 bbls Treated Slick Water, 100960 lbs Common White - 100 Mesh proppant, 389080 lbs Premium White - 40/70 proppant. Max rate of 91.5 bpm, average rate of 90.0 bpm with max pressure of 7270 psi and average pressure of 6947 psi.
Interval 12 4/8/2018	(14939-14789): With 1000 gal 15% HCL Acid, 13861 bbls Treated Slick Water, 99940 lbs Common White - 100 Mesh proppant, 395880 lbs Premium White - 40/70 proppant. Max rate of 90.2 bpm, average rate of 89.0 bpm with max pressure of 6995 psi and average pressure of 6301 psi.
Interval 13 4/8/2018	(14739-14589): With 1000 gal 15% HCL Acid, 12817 bbls Treated Slick Water, 101200 lbs Common White - 100 Mesh proppant, 365600 lbs Premium White - 40/70 proppant. Max rate of 92.0 bpm, average rate of 85.6 bpm with max pressure of 7714 psi and average pressure of 6525 psi.
Interval 14 4/8/2018	(14539-14388): With 1000 gal 15% HCL Acid, 12988 bbls Treated Slick Water, 102425 lbs Common White - 100 Mesh proppant, 394100 lbs Premium White - 40/70 proppant. Max rate of 91.3 bpm, average rate of 90.7 bpm with max pressure of 7232 psi and average pressure of 6693 psi.
Interval 15 4/9/2018	(14338-14188): With 1000 gal 15% HCL Acid, 12944 bbls Treated Slick Water, 100570 lbs Common White - 100 Mesh proppant, 400430 lbs Premium White - 40/70 proppant. Max rate of 91.0 bpm, average rate of 90.1 bpm with max pressure of 7044 psi and average pressure of 6588 psi.
Interval 16 4/9/2018	(14134-13988): With 1000 gal 15% HCL Acid, 12869 bbls Treated Slick Water, 97120 lbs Common White - 100 Mesh proppant, 405034 lbs Premium White - 40/70 proppant. Max rate of 98.0 bpm, average rate of 90.2 bpm with max pressure of 6629 psi and average pressure of 6149 psi.

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Interval 17 4/9/2018	(13938-13787): With 1000 gal 15% HCL Acid, 12723 bbls Treated Slick Water, 101420 lbs Common White - 100 Mesh proppant, 397500 lbs Premium White - 40/70 proppant. Max rate of 92.0 bpm, average rate of 90.3 bpm with max pressure of 6731 psi and average pressure of 6230 psi.
Interval 18 4/9/2018	(13733-13587): With 1000 gal 15% HCL Acid, 12945 bbls Treated Slick Water, 100780 lbs Common White - 100 Mesh proppant, 389600 lbs Premium White - 40/70 proppant. Max rate of 90.3 bpm, average rate of 89.5 bpm with max pressure of 8037 psi and average pressure of 6429 psi.
Interval 19 4/10/2018	(13537-13387): With 1000 gal 15% HCL Acid, 12913 bbls Treated Slick Water, 100140 lbs Common White - 100 Mesh proppant, 400050 lbs Premium White - 40/70 proppant. Max rate of 91.1 bpm, average rate of 90.4 bpm with max pressure of 6928 psi and average pressure of 6532 psi.
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Interval 23 5/11/2018	(12736-12585): With 1024 gal 15% HCL Acid, 12626 bbls Treated Slick Water, 98760 lbs Common White - 100 Mesh proppant, 401510 lbs Premium White - 40/70 proppant. Max rate of 91.4 bpm, average rate of 90.1 bpm with max pressure of 6915 psi and average pressure of 6222 psi.
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Interval 30 5/13/2018	(11333-11183): With 1000 gal 15% HCL Acid, 12704 bbls Treated Slick Water, 100260 lbs Common White - 100 Mesh proppant, 400930 lbs Premium White - 40/70 proppant. Max rate of 91.8 bpm, average rate of 90.7 bpm with max pressure of 6490 psi and average pressure of 6183 psi.
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Interval 33 5/13/2018	(10732-10582): With 1000 gal 15% HCL Acid, 12745 bbls Treated Slick Water, 100000 lbs Common White - 100 Mesh proppant, 400000 lbs Premium White - 40/70 proppant. Max rate of 95.0 bpm, average rate of 90.7 bpm with max pressure of 7497 psi and average pressure of 6284 psi.
Interval 34 5/14/2018	(10532-10382): With 1000 gal 15% HCL Acid, 12719 bbls Treated Slick Water, 100500 lbs Common White - 100 Mesh proppant, 400000 lbs Premium White - 40/70 proppant. Max rate of 97.0 bpm, average rate of 91.0 bpm with max pressure of 6990 psi and average pressure of 6077 psi.
Interval 35 5/14/2018	(10332-10181): With 1000 gal 15% HCL Acid, 12223 bbls Treated Slick Water, 99750 lbs Common White - 100 Mesh proppant, 400240 lbs Premium White - 40/70 proppant. Max rate of 91.1 bpm, average rate of 90.1 bpm with max pressure of 6679 psi and average pressure of 6178 psi.
Interval 36 5/14/2018	(10131-9981): With 1000 gal 15% HCL Acid, 12362 bbls Treated Slick Water, 99178 lbs Common White - 100 Mesh proppant, 399950 lbs Premium White - 40/70 proppant. Max rate of 90.4 bpm, average rate of 89.9 bpm with max pressure of 7310 psi and average pressure of 6377 psi.
Interval 37 5/14/2018	(9931-9781): With 1000 gal 15% HCL Acid, 12248 bbls Treated Slick Water, 100000 lbs Common White - 100 Mesh proppant, 401000 lbs Premium White - 40/70 proppant. Max rate of 92.0 bpm, average rate of 91.0 bpm with max pressure of 6775 psi and average pressure of 6358 psi.
Interval 38 5/14/2018	(9727-9580): With 1000 gal 15% HCL Acid, 12555 bbls Treated Slick Water, 99500 lbs Common White - 100 Mesh proppant, 400000 lbs Premium White - 40/70 proppant. Max rate of 91.0 bpm, average rate of 90.0 bpm with max pressure of 7055 psi and average pressure of 6331 psi.
Interval 39 5/15/2018	(9530-9380): With 1000 gal 15% HCL Acid, 13475 bbls Treated Slick Water, 100000 lbs Common White - 100 Mesh proppant, 400000 lbs Premium White - 40/70 proppant. Max rate of 91.0 bpm, average rate of 90.6 bpm with max pressure of 8193 psi and average pressure of 6180 psi.
Interval 40 5/15/2018	(9330-9180): With 1000 gal 15% HCL Acid, 13273 bbls Treated Slick Water, 100229 lbs Common White - 100 Mesh proppant, 400000 lbs Premium White - 40/70 proppant. Max rate of 91.0 bpm, average rate of 89.7 bpm with max pressure of 7831 psi and average pressure of 7173 psi.
Interval 41 5/15/2018	(9130-8979): With 1000 gal 15% HCL Acid, 12165 bbls Treated Slick Water, 100296 lbs Common White - 100 Mesh proppant, 400590 lbs Premium White - 40/70 proppant. Max rate of 90.7 bpm, average rate of 89.2 bpm with max pressure of 8139 psi and average pressure of 7272 psi.
Interval 42 5/15/2018	(8932-8779): With 1000 gal 15% HCL Acid, 12399 bbls Treated Slick Water, 100000 lbs Common White - 100 Mesh proppant, 400000 lbs Premium White - 40/70 proppant. Max rate of 92.0 bpm, average rate of 91.0 bpm with max pressure of 6976 psi and average pressure of 6473 psi.
Interval 43 5/16/2018	(8729-8579): With 1000 gal 15% HCL Acid, 12196 bbls Treated Slick Water, 99980 lbs Common White - 100 Mesh proppant, 402020 lbs Premium White - 40/70 proppant. Max rate of 92.0 bpm, average rate of 91.0 bpm with max pressure of 7463 psi and average pressure of 6429 psi.
Interval 44 5/16/2018	(8529-8378): With 1000 gal 15% HCL Acid, 11933 bbls Treated Slick Water, 100044 lbs Common White - 100 Mesh proppant, 4390950 lbs Premium White - 40/70 proppant. Max rate of 91.8 bpm, average rate of 89.0 bpm with max pressure of 8764 psi and average pressure of 6990 psi.
Interval 45 5/16/2018	(8328-8178): With 1000 gal 15% HCL Acid, 122204 bbls Treated Slick Water, 100257 lbs Common White - 100 Mesh proppant, 399675 lbs Premium White - 40/70 proppant. Max rate of 91.9 bpm, average rate of 90.7 bpm with max pressure of 7331 psi and average pressure of 6899 psi.
Interval 46 5/16/2018	(8128-7978): With 1000 gal 15% HCL Acid, 12039 bbls Treated Slick Water, 100504 lbs Common White - 100 Mesh proppant, 399875 lbs Premium White - 40/70 proppant. Max rate of 94.0 bpm, average rate of 90.0 bpm with max pressure of 6523 psi and average pressure of 5577 psi.
Interval 47 5/16/2018	(7928-7777): With 1000 gal 15% HCL Acid, 11008 bbls Treated Slick Water, 97980 lbs Common White - 100 Mesh proppant, 403040 lbs Premium White - 40/70 proppant. Max rate of 91.0 bpm, average rate of 90.0 bpm with max pressure of 6600 psi and average pressure of 5824 psi.
Interval 48 5/17/2018	(7727-7581): With 1000 gal 15% HCL Acid, 12254 bbls Treated Slick Water, 99905 lbs Common White - 100 Mesh proppant, 401290 lbs Premium White - 40/70 proppant. Max rate of 91.0 bpm, average rate of 90.0 bpm with max pressure of 6072 psi and average pressure of 5712 psi.

NEBU 604-3H 30-045-35829

Perforation Report March 26, 2018 to April 17, 2018

3 1/8 gun used to make 0.430" diam. holes at 60 degree phasing. 4 spf. 8 holes/cluster (except stage 1)

Stage	Cluster #1		Cluster #2		Cluster #3		Cluster #4		Cluster #5		Cluster #6		Cluster #7		Cluster #8		Holes/Stage
	top	bottom	top	bottom	top	bottom	top	bottom	top	bottom	top	bottom	top	bottom	top	bottom	
1	toe sleeve @	17,169	17,122	17,120	17,101	17,099	17,079	17,077	17,058	17,056	17,037	17,035	17,016	17,014	16,995	16,993	56
2	16,943	16,941	16,921	16,919	16,900	16,898	16,879	16,877	16,858	16,856	16,837	16,835	16,816	16,814	16,794	16,792	64
3	16,742	16,740	16,721	16,719	16,700	16,698	16,679	16,677	16,658	16,656	16,636	16,634	16,615	16,613	16,594	16,592	64
4	16,542	16,540	16,521	16,519	16,500	16,498	16,478	16,476	16,457	16,455	16,436	16,434	16,415	16,413	16,394	16,392	64
5	16,403	16,401	16,374	16,372	16,345	16,343	16,316	16,314	16,287	16,285	16,258	16,256	16,229	16,227	16,200	16,198	64
6	16,141	16,139	16,120	16,118	16,099	16,097	16,078	16,076	16,059	16,057	16,035	16,033	16,014	16,012	15,993	15,991	64
7	15,941	15,939	15,920	15,918	15,899	15,897	15,877	15,875	15,856	15,854	15,835	15,833	15,814	15,812	15,793	15,791	64
8	15,741	15,739	15,720	15,718	15,699	15,697	15,677	15,675	15,656	15,654	15,635	15,633	15,616	15,614	15,592	15,590	64
9	15,540	15,538	15,519	15,517	15,498	15,496	15,477	15,475	15,456	15,454	15,434	15,432	15,413	15,411	15,392	15,390	64
10	15,340	15,338	15,319	15,317	15,298	15,296	15,276	15,274	15,252	15,250	15,234	15,232	15,213	15,211	15,192	15,190	64
11	15,140	15,138	15,119	15,117	15,097	15,095	15,076	15,074	15,055	15,053	15,034	15,032	15,013	15,011	14,991	14,989	64
12	14,939	14,937	14,918	14,916	14,897	14,895	14,876	14,874	14,855	14,853	14,833	14,831	14,812	14,810	14,791	14,789	64
13	14,739	14,737	14,718	14,716	14,697	14,695	14,672	14,670	14,654	14,652	14,637	14,635	14,612	14,610	14,591	14,589	64
14	14,539	14,537	14,518	14,516	14,496	14,494	14,475	14,473	14,454	14,452	14,433	14,431	14,412	14,410	14,390	14,388	64
15	14,338	14,336	14,314	14,312	14,296	14,294	14,271	14,269	14,254	14,252	14,232	14,230	14,211	14,209	14,190	14,188	64
16	14,134	14,132	14,117	14,115	14,092	14,090	14,074	14,072	14,053	14,051	14,032	14,030	14,011	14,009	13,990	13,988	64
17	13,938	13,936	13,913	13,911	13,895	13,893	13,877	13,875	13,853	13,851	13,832	13,830	13,811	13,809	13,789	13,787	64
18	13,733	13,731	13,716	13,714	13,695	13,693	13,674	13,672	13,653	13,651	13,631	13,629	13,610	13,608	13,589	13,587	64
19	13,537	13,535	13,518	13,516	13,495	13,493	13,473	13,471	13,452	13,450	13,431	13,429	13,410	13,408	13,389	13,387	64
20	13,339	13,337	13,316	13,314	13,295	13,293	13,273	13,271	13,252	13,250	13,231	13,229	13,210	13,208	13,188	13,186	64
21	13,136	13,134	13,115	13,113	13,094	13,092	13,073	13,071	13,052	13,050	13,030	13,028	13,009	13,007	12,988	12,986	64
22	12,936	12,934	12,915	12,913	12,894	12,892	12,873	12,871	12,851	12,849	12,830	12,828	12,809	12,807	12,788	12,786	64
23	12,736	12,734	12,715	12,713	12,693	12,691	12,672	12,670	12,651	12,649	12,630	12,628	12,609	12,607	12,587	12,585	64
24	12,535	12,533	12,514	12,512	12,493	12,491	12,472	12,470	12,451	12,449	12,429	12,427	12,408	12,406	12,385	12,383	64
25	12,335	12,333	12,314	12,312	12,293	12,291	12,272	12,270	12,250	12,248	12,229	12,227	12,208	12,206	12,187	12,185	64
26	12,135	12,133	12,114	12,112	12,092	12,090	12,071	12,069	12,050	12,048	12,029	12,027	12,008	12,006	11,986	11,984	64
27	11,934	11,932	11,913	11,911	11,892	11,890	11,871	11,869	11,850	11,848	11,828	11,826	11,807	11,805	11,786	11,784	64
28	11,734	11,732	11,713	11,711	11,692	11,690	11,671	11,669	11,649	11,647	11,628	11,626	11,607	11,605	11,586	11,584	64
29	11,534	11,532	11,513	11,511	11,491	11,489	11,470	11,468	11,449	11,447	11,428	11,426	11,407	11,405	11,385	11,383	64
30	11,333	11,331	11,312	11,310	11,291	11,289	11,270	11,268	11,249	11,247	11,227	11,225	11,206	11,204	11,185	11,183	64
31	11,133	11,131	11,112	11,110	11,091	11,089	11,070	11,068	11,048	11,046	11,027	11,025	11,006	11,004	10,985	10,983	64
32	10,933	10,931	10,912	10,910	10,890	10,888	10,869	10,867	10,848	10,846	10,827	10,825	10,806	10,804	10,784	10,782	64
33	10,732	10,730	10,711	10,709	10,690	10,688	10,669	10,667	10,648	10,646	10,626	10,624	10,605	10,603	10,584	10,582	64
34	10,532	10,530	10,511	10,509	10,490	10,488	10,469	10,467	10,447	10,445	10,426	10,424	10,405	10,403	10,384	10,382	64
35	10,332	10,330	10,311	10,309	10,289	10,287	10,268	10,266	10,247	10,245	10,226	10,224	10,205	10,203	10,183	10,181	64
36	10,131	10,129	10,110	10,108	10,089	10,087	10,068	10,066	10,047	10,045	10,025	10,023	10,004	10,002	9,983	9,981	64
37	9,931	9,929	9,910	9,908	9,889	9,887	9,868	9,866	9,846	9,844	9,825	9,823	9,804	9,802	9,783	9,781	64
38	9,727	9,725	9,710	9,708	9,688	9,686	9,667	9,665	9,646	9,644	9,625	9,623	9,604	9,602	9,582	9,580	64
39	9,530	9,528	9,510	9,508	9,488	9,486	9,467	9,465	9,446	9,444	9,425	9,423	9,403	9,401	9,382	9,380	64
40	9,330	9,328	9,309	9,307	9,288	9,286	9,267	9,265	9,245	9,243	9,224	9,222	9,203	9,201	9,182	9,180	64
41	9,130	9,128	9,109	9,107	9,087	9,085	9,066	9,064	9,045	9,043	9,024	9,022	9,003	9,001	8,981	8,979	64
42	8,932	8,930	8,908	8,906	8,887	8,885	8,866	8,864	8,845	8,843	8,824	8,822	8,802	8,800	8,781	8,779	64
43	8,729	8,727	8,708	8,706	8,687	8,685	8,666	8,664	8,644	8,642	8,623	8,621	8,602	8,600	8,581	8,579	64
44	8,529	8,527	8,508	8,506	8,486	8,484	8,465	8,463	8,444	8,442	8,423	8,421	8,402	8,400	8,380	8,378	64
45	8,328	8,326	8,307	8,305	8,286	8,284	8,265	8,263	8,244	8,242	8,223	8,221	8,201	8,199	8,180	8,178	64
46	8,128	8,126	8,107	8,105	8,086	8,084	8,065	8,063	8,043	8,041	8,022	8,020	8,001	7,999	7,980	7,978	64
47	7,928	7,926	7,907	7,905	7,885	7,883	7,864	7,862	7,843	7,841	7,822	7,820	7,801	7,799	7,779	7,777	64
48	7,727	7,725	7,706	7,704	7,685	7,683	7,664	7,662	7,643	7,641	7,622	7,620	7,600	7,598	7,583	7,581	64