

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

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

NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 05 2017

Submit one copy to appropriate District Office

RECEIVED

☐ AMENDED REPORT

Form C-104
Revised August 1, 2011

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address COG Operating LLC 2208 W. Main Street Artesia, NM 88210		² OGRID Number 229137
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30 - 015-44102	⁵ Pool Name WC-015 G-03 S252636M; Bone Spring	⁶ Pool Code 97818
⁷ Property Code 315065	⁸ Property Name Populus Federal	⁹ Well Number 2H

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
B	29	25S	27E		115	North	2310	East	Eddy

¹¹ Bottom Hole Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
O	29	25S	27E		211	South	1961	East	Eddy
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 8/12/17	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
16696	Oxy USA Inc PO Box 4294 Houston, TX 77210	O
	Lucid Energy	G

IV. Well Completion Data

²¹ Spud Date 4/17/17	²² Ready Date 8/10/17	²³ TD 12200' / 7482	²⁴ PBTD 12080'	²⁵ Perforations 7600-12055'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13 3/8"	425'	520		
12 1/4"	9 5/8"	2050'	810		
8 3/4"	5 1/2"	12200'	2110		
	2 7/8"	6965'			

V. Well Test Data

³¹ Date New Oil 8/11/17	³² Gas Delivery Date 8/12/17	³³ Test Date 8/11/17	³⁴ Test Length 24 Hrs	³⁵ Tbg. Pressure 680#	³⁶ Csg. Pressure 500#
³⁷ Choke Size 32/64"	³⁸ Oil 20	³⁹ Water 1286	⁴⁰ Gas 0	⁴¹ Test Method Flowing	

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:
Stormi Davis

Title:
Regulatory Analyst

E-mail Address:
sdavis@concho.com

Date:
8/30/17

Phone:
575-748-6946

Approved by:

Title:

Approval Date:

OIL CONSERVATION DIVISION

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: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM114348

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name	
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____		7. Unit or CA Agreement Name and No.	
2. Name of Operator COG OPERATING LLC		Contact: STORMI DAVIS E-Mail: sdavis@concho.com	
3. Address 2208 WEST MAIN ARTESIA, NM 88210		3a. Phone No. (include area code) Ph: 575-748-6946	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface Sec 29 T25S R27E Mer NMP NWNE 115FNL 2310FEL At top prod interval reported below Sec 29 T25S R27E Mer NMP At total depth SWSE 211FSL 1961FEL		8. Lease Name and Well No. POPULUS FEDERAL 2H	
14. Date Spudded 04/17/2017		15. Date T.D. Reached 04/26/2017	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 08/10/2017		9. API Well No. 30-015-44102	
18. Total Depth: MD 12200 TVD 7472		19. Plug Back T.D.: MD 12080 TVD 7472	
20. Depth Bridge Plug Set: MD 12080 TVD 7472		10. Field and Pool, or Exploratory WILDCAT; BONE SPRING	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) NONE		11. Sec., T., R., M., or Block and Survey or Area Sec 29 T25S R27E Mer NMP	
22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis)		12. County or Parish EDDY	
23. Casing and Liner Record (Report all strings set in well)		13. State NM	
24. Tubing Record		17. Elevations (DF, KB, RT, GL)* 3147 GL	

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
17.500	13.375 J55	54.5	0	425		520		0	
12.250	9.625 J55	40.0	0	2050		810		0	
8.750	5.500 P110	17.0	0	12200		2110		886	

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	6965	6946						

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	7600	12055	7600 TO 11990	0.430	1232	OPEN
B)			12045 TO 12055		60	OPEN
C)						
D)						

Depth Interval	Amount and Type of Material
7600 TO 11990	SEE ATTACHED

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/11/2017	08/11/2017	24	→	20.0	0.0	1286.0			FLOW FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
32/64	680	500.0	→	20	0	1286		POW	

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Grav	Well
			→						
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 #387012 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

NM OIL CONSERVATION

ARTESIA DISTRICT

SEP 05 2017

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subsequently be reviewed
and scanned

BC 9-7-17

28b. Production - Interval C

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

28c. Production - Interval D

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

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
LAMAR	2038	2086		RUSTLER	245
BELL CANYON	2087	2913		TOS	433
CHERRY CANYON	2914	3991		BOS	1845
BRUSHY CANYON	3992	5595		LAMAR	2038
BONE SPRING LM	5596	6545		BELL CANYON	2087
1ST BONE SPRING	6546	7349		CHERRY CANYON	2914
2ND BONE SPRING	7350	7479		BRUSHY CANYON	3992
				BONE SPRING LM	5596

32. Additional remarks (include plugging procedure):
Surveys, perms & stimulation are attached.

Additional Tops:
1st Bone Spring: 6546'
2nd Bone Spring: 7350'

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 #387012 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Carlsbad

Name (please print) STORMI DAVISTitle PREPARER

Signature _____ (Electronic Submission)

Date 08/31/2017

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 ****

POPULUS FEDERAL #2H (30-015-44102)

<u>Perfs</u>	<u>7 1/2% Acid (Gal)</u>	<u>Sand (#)</u>	<u>Fluid (Gal)</u>
1	5628	312011	382032
2	3276	312018	336252
3	3024	312171	333690
4	3024	312739	332220
5	3024	312325	333690
6	3024	312412	333858
7	2562	312038	326382
8	2016	312231	313152
9	3024	312033	308826
10	3024	314506	308406
11	3024	312983	306768
12	3024	309396	310143
13	3024	312334	310800
14	3024	311672	308112
15	3024	313892	306306
16	3024	310368	306978
17	3024	314652	307482
18	3024	313100	315462
19	3066	312533	305718
20	3024	312503	302862
21	2982	312625	304332
22	3024	312006	304038
23	3024	312695	307902
24	3066	312509	302190
25	2982	311030	305676
26	2982	312024	296184
27	3024	312464	293118
28	3066	312698	304164
Totals	86,058	8,745,968	8,806,743

NM OIL CONSERVATION
ARTESIA DISTRICT

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From Bottom to Top	Stage 1	Distance	Shots	Stage 2	Distance	Shots	Stage 3	Distance	Shots	Stage 4	Distance	Shots	Stage 5	Distance	Shots
	Between Perfs			Between Perfs			Between Perfs			Between Perfs			Between Perfs		
	11,988		6	11,849	15	6	11,679	30	6	11,531	20	6	11,371	23	6
	-11948		0	11,827	20	6	11,689	22	6	11,511	20	6	11,353	20	6
	11,948	19	6	11,807	28	6	11,647	17	6	11,491	19	6	11,333	19	6
	11,929	20	6	11,781	13	6	11,630	17	6	11,472	20	6	11,314	20	6
	11,909	20	5	11,768	20	5	11,613	20	5	11,452	23	5	11,294	20	5
	11,877	12	5	11,748	20	5	11,590	20	5	11,429	17	5	11,274	20	5
	11,864	13	5	11,728	19	5	11,570	19	5	11,412	18	5	11,254	16	5
			5	11,709		5	11,551		5	11,394		5	11,238		5
Plug to Plug	139		38	Plug to Plug	170		Plug to Plug	148		Plug to Plug	180		Plug to Plug	152	
Frac Plug	11,986	Total Shots	44	Frac Plug	11,857	Total Shots	Frac Plug	11,687	Total Shots	Frac Plug	11,539	Total Shots	Frac Plug	11,379	Total Shots

From Bottom to Top	Stage 6	Distance	Shots	Stage 7	Distance	Shots	Stage 8	Distance	Shots	Stage 9	Distance	Shots	Stage 10	Distance	Shots
	Between Perfs			Between Perfs			Between Perfs			Between Perfs			Between Perfs		
	11,219	19	6	11,057	18	6	10,897	32	6	10,737	24	6	10,579	24	6
	11,195	20	6	11,034	17	6	10,871	16	6	10,721	20	6	10,561	18	6
	11,175	19	6	11,017	18	6	10,855	15	6	10,701	21	6	10,543	19	6
	11,156	20	6	10,999	21	6	10,840	20	6	10,680	18	6	10,524	20	6
	11,136	20	5	10,978	20	5	10,820	20	5	10,662	17	5	10,504	20	5
	11,116	20	5	10,958	20	5	10,800	20	5	10,645	23	5	10,484	20	5
	11,096	21	5	10,938	19	5	10,780	19	5	10,622	19	5	10,468	23	5
	11,075		5	10,919		5	10,761		5	10,603		5	10,445		5
Plug to Plug	182		44	Plug to Plug	170		Plug to Plug	150		Plug to Plug	158		Plug to Plug	154	
Frac Plug	11,227	Total Shots	44	Frac Plug	11,085	Total Shots	Frac Plug	10,885	Total Shots	Frac Plug	10,745	Total Shots	Frac Plug	10,587	Total Shots

From Bottom to Top	Stage 11	Distance	Shots	Stage 12	Distance	Shots	Stage 13	Distance	Shots	Stage 14	Distance	Shots	Stage 15	Distance	Shots
	Between Perfs			Between Perfs			Between Perfs			Between Perfs			Between Perfs		
	10,455	20	6	10,297	23	6	10,103	26	6	9,951	19	6	9,790	23	6
	10,405	20	6	10,247	20	6	10,034	19	6	9,931	20	6	9,773	20	6
	10,386	19	6	10,227	20	6	10,065	16	6	9,911	24	6	9,753	20	6
	10,366	20	6	10,207	19	6	10,049	25	6	9,897	15	6	9,733	21	6
	10,325	21	5	10,188	20	5	10,024	14	5	9,872	25	5	9,712	18	5
	10,308	19	5	10,168	20	5	10,010	20	5	9,847	15	5	9,694	16	5
	10,290	16	5	10,148	19	5	9,990	20	5	9,932	19	5	9,878	24	5
			5	10,129		5	9,970		5	9,913		5	9,854		5
Plug to Plug	158		44	Plug to Plug	157		Plug to Plug	159		Plug to Plug	161		Plug to Plug	155	
Frac Plug	10,433	Total Shots	44	Frac Plug	10,275	Total Shots	Frac Plug	10,118	Total Shots	Frac Plug	9,959	Total Shots	Frac Plug	9,798	Total Shots

From Bottom to Top	Stage 16	Distance	Shots	Stage 17	Distance	Shots	Stage 18	Distance	Shots	Stage 19	Distance	Shots	Stage 20	Distance	Shots
	Between Perfs			Between Perfs			Between Perfs			Between Perfs			Between Perfs		
	9,635	19	6	9,476	19	6	9,319	25	6	9,161	19	6	9,000	19	6
	9,615	20	6	9,459	22	6	9,299	21	6	9,141	20	6	8,984	21	6
	9,595	20	6	9,437	18	6	9,278	19	6	9,121	20	6	8,963	20	6
	9,575	19	6	9,419	21	6	9,259	22	6	9,101	19	6	8,943	19	6
	9,559	21	5	9,398	20	5	9,237	17	5	9,082	21	5	8,924	20	5
	9,535	19	5	9,378	18	5	9,220	25	5	9,061	19	5	8,904	20	5
	9,516	21	5	9,360	16	5	9,195	15	5	9,042	23	5	8,884	18	5
	9,495		5	9,344		5	9,180		5	9,019		5	8,866		5
Plug to Plug	159		44	Plug to Plug	150		Plug to Plug	165		Plug to Plug	161		Plug to Plug	152	
Frac Plug	9,643	Total Shots	44	Frac Plug	9,484	Total Shots	Frac Plug	9,334	Total Shots	Frac Plug	9,169	Total Shots	Frac Plug	9,008	Total Shots

From Bottom to Top	Stage 21	Distance	Shots	Stage 22	Distance	Shots	Stage 23	Distance	Shots	Stage 24	Distance	Shots	Stage 25	Distance	Shots
	Between Perfs			Between Perfs			Between Perfs			Between Perfs			Between Perfs		
	8,841	25	6	8,686	20	6	8,518	30	6	8,370	20	6	8,211	23	6
	8,825	19	6		16	6	8,504	17	6	8,351	20	6	8,193	20	6
	8,806	21	6	8,647	18	6	8,487	18	6	8,331	22	6	8,173	20	6
	8,785	19	6	8,629	22	6	8,469	26	6	8,309	18	6	8,153	20	6
	8,766	20	5	8,607	19	5	8,443	13	5	8,291	16	5	8,133	19	5
	8,746	20	5	8,588	20	5	8,430	20	5	8,275	23	5	8,114	25	5
	8,726	20	5	8,568	20	5	8,410	20	5	8,252	18	5	8,098	15	5
	8,706		5	8,548		5	8,390		5	8,234		5	8,074		5
Plug to Plug	182		44	Plug to Plug	168		Plug to Plug	148		Plug to Plug	159		Plug to Plug	157	
Frac Plug	8,856	Total Shots	44	Frac Plug	8,694	Total Shots	Frac Plug	8,528	Total Shots	Frac Plug	8,378	Total Shots	Frac Plug	8,218	Total Shots

From Bottom to Top	Stage 26	Distance	Shots	Stage 27	Distance	Shots	Stage 28	Distance	Shots	Stage 29	Distance	Shots	Stage 30	Distance	Shots
	Between Perfs			Between Perfs			Between Perfs			Between Perfs			Between Perfs		
	8,054	20	6	7,896	20	6	7,694	74	6						
	8,035	20	6	7,875	18	6	7,672	10	6						
	8,015	20	6	7,857	17	6	7,662	14	6						
	7,995	20	6	7,838	23	6	7,648	12	6						
	7,975	19	5	7,817	19	5	7,638	12	5						
	7,956	20	5	7,798	20	5	7,624	9	5						
	7,936	20	5	7,778	20	5	7,615	15	5						
	7,916		5	7,758		5	7,600		5						
Plug to Plug	158		44	Plug to Plug	212		Plug to Plug	44		Plug to Plug	0		Plug to Plug	0	
Frac Plug	8,082	Total Shots	44	Frac Plug	7,904	Total Shots	Frac Plug	7,892	Total Shots	Frac Plug		Total Shots	Frac Plug		Total Shots

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.
NMNM114348

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 28. Well Name and No.
POPULUS FEDERAL 2H9. API Well No.
30-015-4410210. Field and Pool or Exploratory Area
WILDCAT; BONE SPRING11. County or Parish, State
EDDY 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.

5/22/17 Test csg to 1500# for 30 mins. Ran CBL. TOC @ 886'. Set CBP @ 12080'. Test to 8306#.

Perf 12045-12055' (60). Injection test.

7/17/17 to 7/24/17 Perf 7600-11990' (1232). Acldz w/86,058 gal 7 1/2%; frac w/8,745,968# sand & 8,806,743 gal fluid.

7/26/17 to 7/30/17 Drilled out CFP's. Clean down to CBP @ 12080'.

8/7/17 to 8/8/17 Set 2 7/8" 6.5# J-55 tbg @ 6965' & pkr @ 6946'. Installed gas-lift system.

8/10/17 Began flowing back & testing.

8/11/17 Date of first production.

NM OIL CONSERVATION
ARTESIA DISTRICT

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

**Electronic Submission #387006 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Carlsbad**

Name (Printed/Typed) STORMI DAVIS

Title PREPARER

Signature (Electronic Submission)

Date 08/31/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Pending BLM approvals will subsequently be reviewed and scanned

Office

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

(Instructions on page 2)

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