Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

OCD-ARTESIA

FORM APPROVED OMB NO. 1004-0137

Expires: Ja	anuary	3	i,
Lease Serial No.			

SUNDRY N	OTICES AND REPORTS ON WELLS	
Do not use this	form for proposals to drill or to re-enter an	
Handanad wall	Han form 2160 2 (ABD) for such proposals	

	NMLC028793A
6.	If Indian, Allottee or Tribe Name

SUNDKI	NO HOES AND KEPO	KIS ON A	ELLO	1	MILCOZOTOSA	_
Do not use thi abandoned wel	s form for proposals to II. Use form 3160-3 (AP	drill or to r D) for such	e-enter an proposals. 		6. If Indian, Allottee of	r Tribe Name
SUBMIT IN 1	TRIPLICATE - Other ins	tructions o	page 2		7. If Unit or CA/Agree NMB85	ement, Name and/or No. 2ミン
 Type of Well Gas Well Oth 	er				8. Well Name and No. BURCH KEELY U	INIT 363
2. Name of Operator COG OPERATING LLC	Contact: E-Mail: kcastillo@	KANICIA C concho.com	ASTILLO		9. API Well No. 30-015-32992 ~	
3a. Address 600 W ILLINOIS AVE MIDLAND, TX 79701		3b. Phone N Ph: 432-6	lo. (include area code) 85-4332		10. Field and Pool or F BK-GLORIETA-	
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description	·)			11. County or Parish,	State
Sec 19 T17S R30E Mer NMP	1750FSL 1070FWL —				EDDY COUNTY	′, NM
12. CHECK THE AF	PPROPRIATE BOX(ES)	TO INDIC.	ATE NATURE O	F NOTICE,	REPORT, OR OTH	IER DATA
TYPE OF SUBMISSION			TYPE OF	ACTION		
Notice of Intent	□ Acidize	D De	epen	☐ Product:	ion (Start/Resume)	■ Water Shut-Off
Notice of Intent	☐ Alter Casing	□ H ₂	draulic Fracturing	☐ Reclama	ation	■ Well Integrity
☐ Subsequent Report	Casing Repair	□ Ne	w Construction	☐ Recomp	lete	Other
☐ Final Abandonment Notice	Change Plans	🖸 Pl	ug and Abandon	□ Tempor	arily Abandon	
	Convert to Injection	D Pl	ug Back	☐ Water D	Disposal	
If the proposal is to deepen directions Attach the Bond under which the wor following completion of the involved testing has been completed. Final At determined that the site is ready for f	rk will be performed or provide operations. If the operation re- pandonment Notices must be fil- final inspection. Ally requests to down hole	e the Bond No. sults in a multi led only after a	on file with BLM/BIA ple completion or reco Il requirements, includ	. Required submpletion in a raining reclamation in CIL Co	osequent reports must be new interval, a Form 316	filed within 30 days 0-4 must be filed once and the operator has
Grayburg Jackson;SR-Q-G-S/ Interval 2927 - 4044 Percentages: Oil 80%, Gas				OCT	2 0 2017	•
Burch Keely -Glorieta-Upper \ Interval 4224 - 4557	% the same. he value of the production	n.	co	SEE A	CEIVED TTACHED FO ONS OF APPR	
14. I hereby certify that the foregoing is	true and correct. Electronic Submission # For COG (Committed to AFMSS for	377576 verif DPERATING processing l	DEBORAH MCKI	NNEY on 06	n System /01/2017 ()	
Name (Printed/Typed) KANICIA	CASTILLO		Title PREPA	RER		
Signature (Electronic S	Submission)		Date 05/31/2	017		
	THIS SPACE FO	OR FEDER	AL OR STATE	OFFICE U	SE	
Approved By Conditions of approval, if any, are attache certify that the applicant holds legal or equivalent would entitle the applicant to conduct the conduction of the con	uitable title to those rights in th		Title T	PET		Date 09/25//7
			/ <u>~</u>	v		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crune 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.

Ref 10-20-17

Additional data for EC transaction #377576 that would not fit on the form

32. Additional remarks, continued

Please see well commingle worksheet, map, serial register page, and oil water, gas analysis attached.

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT CASE RECORDATION

(MASS) Serial Register Page

Run Date 03/07/2017

01 02-25-1920;041STAT0437;30USC181

Case Type 318220: O&G SECONDARY UNIT

Code Action

Act Date

Total Acres

Serial Number

01:02 PM

Page 1 of 2

Run Time:

5,129.440

NMNM-- 088525X

Commodity 459: OIL & GAS Case Disposition: AUTHORIZED

Serial Number: NMNM--- 088525X

Name & Address				Int Re	i .	% Interest
BLM CARLSBAD FO COG OPERATING LL	.c	620 E GREENE ST 600 W ILLINOIS AVE	CARLSBAD NM 88220 MIDLAND TX 797014882	OFFICE OPERA	OF RECORD TOR	0000000000
			Serial Numb	er: NMNM 088	3525X	
Mer Twp Rng Sec	STyp	SNr Suff Subdivision	District/Field Office	County	Mgmt Ag	ency
23 01705 0290E 012	ALIQ	SESE,	CARLSBAD FIELD OFFICE	EDDY	BUREAU	OF LAND MGMT
23 01705 0290E 013	ALL	ENTIRE SECTION	CARLSBAD FIELD OFFICE	EDDY	BUREAU	OF LAND MGMT
23 01705 0290E 023	ALL	ENTIRE SECTION	CARESBAD FIELD OFFICE	EDDY	BUREAU	OF LAND MGMT
23 01705 0290E 024	ALL	ENTIRE SECTION	CARLSBAD FIELD OFFICE	EDDY	BUREAU	OF LAND MGMT
23 0170S 0290E 025	ALL	ENTIRE SECTION	CARLSBAD FIELD OFFICE	EDDY	BUREAU	OF LAND MGMT
23 01705 02906 026	ALL	ENTIRE SECTION	CARLSBAD FIELD OFFICE	EDDY	BUREAU	OF LAND MGMT
23 01705 0300E 018	ALL	ENTIRE SECTION	CARLSBAD FIELD OFFICE	EDDY	BUREAU	OF LAND MGMT
23 01705 0300E 019	ALL	ENTIRE SECTION	CARLSBAD FIELD OFFICE	EDDY	BUREAU	OF LAND MGMT
23 0170S 0300E 030	ALL	ENTIRE SECTION	CARLSBAD FIELD OFFICE	EDDY	BUREAU	OF LAND MGMT

Action Remark

Serial Number: NMNM-- - 088525X

Pending Office

06/03/1993	387	CASE ESTABLISHED	DESIGNATION RECEIVED
06/03/1993	590	GEOGRAPHIC NAME	BURCH-KEELY;
06/23/1993	519	AGRMT/EXPANSION DESIG	AGREEMENT
07/08/1993	690	AGREEMENT FILED	
07/19/1993	334	AGRMT APPROVED	
08/01/1993	516	FORMATION	/8/
08/01/1993	526	ACRES-FED INT 100%	5129.44;100.00%
08/01/1993	868	EFFECTIVE DATE	/A/ UNIT AGREEMENT
08/20/1993	974	AUTOMATED RECORD VERIF	MO/MC
07/01/1994	600	RECORDS NOTED	
02/23/1995	421	PLAN OPER/EXPL/DEV FILED	/1/
02/28/1995	422	PLAN OPER/EXPL/DEV APPV	/1/
10/01/2010	672	SUCCESSOR OPERATOR	MARBOB/COG
01/31/2011	519	AGRMT/EXPANSION DESIG	/c/
		•	Serial Number: NMNM~ • 088525X
Line Nr	Remar	rks	Condition (will be a cooper
0002	/A/ E	EXHIBIT C EFFECTIVE 08/01/199	93
0003	LEASE	SERIAL NO TE# PH 1%	PH 2% PH 3%
0004	NMLC	0 257B4A 1 9.72270	
0005	NMLC	O 28793A 2 12.68260	
0006	NMLC	0 28784B 3A 15.95490	
0007	NMLC	0 26784B 3B 14.45700	
0003	NMLC	0 28793C 4 20.35470	
0009	NMLC	0 28784C 5 25.98970	
0010	NMLC	0 54496 6 .83840	
0011	/B/ U	NITIZATION WILL BE LIMITED 1	TO THE FOLLOWING

NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA FOR PURPOSES NOT INTENDED BY BLM

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT CASE RECORDATION (MASS) Serial Register Page

Run Time: 01.02 PM

Page 2 of 2

Run Date:	03/07/2017	(IVIASS) Seriai Register Page	
0012	INTERVAL:	THAT INTERVAL UNDERLYING THE UNIT AREA,	
0013	THE VERTIC	AL LIMITS OF WHICH EXTEND FROM THE TOP OF	
0014	THE SEVEN	RIVERS FORMATION TO THE BASE OF THE SAN	
0015	ANDRES FOR	MATION OR 5,000' BENEATH THE SURFACE,	
0016	WHICHEVER	IS THE LESSER. THE UNITIZED FORMATION	
0017	WAS EXPAIN	ED, EFFECTIVE AS OF FEBRUARY 22, 1994, TO	
0018	INCLUDE TH	E TOP 500 FEET OF THE PADDOCK FORMATION.	
0019	/C/ UNIT T	O COMPRISE THAT INTERVAL UNDERLYING THE	
0020	UNIT AREA	FROM THE TOP OF THE SEVEN RIVERS TO A TRUE	
0021	VERTICAL I	SEPTH OF 5000 FEET BELOW THE SURFACE.	
0022	EFFECTIVE	01/31/2001.	

NM OIL CONSERVATION ARTESIA DISTRICT JUL 2 1 2015

COG Operating, LLC

RECEIVED

Lease & Well #

Burch Keely Unit 363

3001532992 Spud date 3-27-05 Completion date 4-25-05 Elevation - GL = 3618' Sec 19 T175 R30E 1750 FSE & 1070 FWL

EDDY CO, NM

KB = 3630

12 1/4" hole

08 5/8" J55 24# @ 329' Cmt w/300 sx. Circ 80 sx

DV tool @ 3275

4224- 4557' 20 holes — acidized w/2,000 gal 15% NEFE Hot acid job - 35,000 gals 20% HCI

Cmt 1st Stage 325 sx Super H, circ 75 sx

Cmt 2nd Stage 400 sx HL 500 sx Super H, circ 175 sx 05 1/2' 17# J-65 csg @ 4,743 7 7/6" hole

PBTD @ 4719'

Proposed.

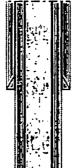
COG Operating, LLC

Lease & Well

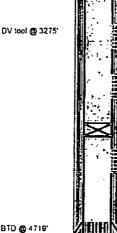
Burch Keely Unit 363

3001532992 Spud date 3-27-05 Completion date 4-25-05 Elevation - GL = 3618' KB = 3630'

Sec 19 T17S R30E, 1750 FSL & 1070 FWL EDDY CO , NM



12 1/4" hole 08 5/8" J55 24# @ 329" Cmt w/300 sx. Circ 80 sx



2810" - 3010", 3rd Estimated San Andres Set of Peris Will shoot 54 holes, 3 SPF, acidize, and frac w/ 181,250# of sand

3260' - 3520' 2nd Estimated San Andres Set of Perfs Will shoot 54 holes, 3 SPF, acidize, and frac w/ 181,250# of sand

3600' - 3900', 1st Est mated San Andrea Set of Perfs Will shoot 54 holes 3 SPF, acidize, and frac w/ 181,250# of sand

CBP @ 4200' to temparity abandon PDK for SA production data

4224- 4557' 40 holes acxtized w/2,000 gal 15% NEFE Hot acid job - 35,000 gats 20% HCi Post Paddock frac will be stimulated w/ 250 000# of 16/30 sand

Cmi 1st Stage 325 sx Super H circ 75 sx Cmt 2nd Stage 400 sx HL 500 sx Super H, circ 175 sx 05 1/2" 17# J-55 csg @ 4,743

PBTD @ 4719

Downhole Commingling Worksheet

Operator: COG Operating LLC

Lease/Well Name/API Number/Location: Burch Keely Unit #363 30-015-32992 L, 19, T17S, R30E

	l .		1
Da ta	Bottom Formation	Middle Formation Upper Formation	Estimated Combined
Poolname	BK-G-Upper Yeso		rivada di de
·		GJ,SR-Q-G-SA 28509	
PoolCode	97918	28509	
State Form C-102 with dedicated Acres			
Provided	40	40	
Formation Name	Paddock	San Andres	
Top and Bottom of Pay Section			
(Perforated or open-Hole Interval)	4224 - 4557	2927 - 4044	
Method of production	Pump	Pump	
Bottom Hole Pressure	500 psi	500 psi	
Reservoir Drive mechanism	Water Drive Reserv	eir Water Drive Reservoir	
Oil gravity and/or BTU	38 / 1448	36 / 1418	36.4 / 1433
Average Sulfur Content (Wt %)	0	0	* 0
Oil sample Analysis provided	Yes	Yes	
Gas Analysis provided	Yes	Yes	
Produce Water Analysis provided	Yes	Yes	
H2S present	No	No	* 0
Producing, Shut-In or New Zone	Shut-In	New Zone	
	2014 Average	2016 Average	
Date and Oil/Gas/Water rates of Last	Oil - 3 bbls	09 40 515	
Production (new zones or no production	Gas - 22 mcf	Oil - 12 bbls	
history Operator shall attached production	1	Gas - 23 mcf	
estimated and supporting data)	Water - 2 bbls	Water 31 bbls	
	36% Avg Decline	34% Avg Decline	
Average decline % (provide to drup data) Fixed Allocation Percentage	O-20%. G-49%. W-6%	O-80%, G-52%, W-94%	

Remarks:	Yeso Ana	llysis based on BKU #3	370	,	
Operator	Signature:	K _ C			
Date:	5/4/17				

Attached Supporting documents

State Form C-102 with dedicated Acres Provided

Oil sample Analysis provided (Must be current)

Gas Analysis provided (Must be current)

Produce Water Analysis provided (Must be current)

Any additional supporting data (i.e. offset well production and decline curves etc.)

*Utilize weighted average.



Certificate of Analysis

Number: 5030-17030103-002A

Midland Laboratory 3312 Bankhead Highway Midland, TX 79701 Phone 432-689-7252

Mar. 23, 2017

Justin Disney Catalyst O:lfield Services PO Box 8485 Midland, TX 79706

Station Name: BURCH KEELY UNIT

Station Number:#370 Method:

GPA-2261M

Analyzed:

03/23/2017 10:37:08 by KR

Sampled By:

Sample Of:

Gas

Sample Date:

Spot 03/17/2017

Sample Conditions: 26 psig

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.65 psia			
Hydrogen Sulfide	0.0000	0.0000		GPM TOTAL C2+	9 7287	
Nitrogen	1.2078	1.2991		GPM TOTAL C3+	5 0498	
Methane	62.0297	38.2083		GPM TOTAL iC5+	1.4187	
Carbon Dioxide	3.2756	5.5351				
Ethane	17.4967	20.2005	4.6789			
Propane	8.9874	15.2166	2.4758			
Iso-Butane	1.0077	2.2488	0.3297			
n-Butane	2.6189	5.8445	0.8256			
Iso-Pentane	0.6773	1.8763	0.2477			
n-Pentane	0.7840	2 1719	0.2842			
Hexanes	0.5993	1.9830	0.2464			
Heptanes Plus	1.3156	5.4159	0.6404			
	100.0000	100.0000	9.7287			
Calculated Physica	Properties		Total	C7+		
Relative Density Rea		0.	9040	3.7019		
Calculated Molecular	Weight	2	26.04	107.22		
Compressibility Factor	or	0.	9944			
26 # Gasoline		5.	2729			
GPA 2172-09 Calcu	lation:					
Calculated Gross B	TU per ft ³ @	14.65 psia &	60°F			
Real Gas Dry BTU	. •		48 4	5857.4		
Water Sat. Gas Base	BTU	14	23.7	5754.9		

Hydrocarbon Laboratory Manager



Certificate of Analysis

Number: 5030-17030103-001A

Midland Laboratory 3312 Bankhead Highway Midland, TX 79701 Phone 432-689-7252

Mar. 23, 2017

Justin Disney Catalyst Oilfield Services PO Box 8485 Midland, TX 79706

Station Name: BURCH KEELY UNIT

Station Number:#363 Method: GPA-2261M

Analyzed:

03/23/2017 10:01:06 by KR

Sampled By:

Sample Of:

Gas Spot

Sample Date. 03/17/2017

Sample Conditions: 38 psig

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.65 psia			
Hydrogen Sulfide	0.0000	0.0000		GPM TOTAL C2+	9.8481	
Nitrogen	2.1000	2 2372		GPM TOTAL C3+	5 0277	
Methane	59.0965	36 0533		GPM TOTAL iC5+	1.1121	
Carbon Dioxide	4.4371	7.4260				
Ethane	18 0283	20.6150	4.8204			
Propane	9.7918	16.4198	2.6971			
Iso-Butane	1.1037	2 4395	0.3611			
n-Butane	2.7203	6.0127	0.8574			
Iso-Pentane	0.7061	1.9373	0 2582			
n-Pentane	0 6867	1.8841	0.2489			
Hexanes	0.5569	1.8250	0.2290			
Heptanes Plus	0.7726	3.1501	0.3760			
	100.0000	100.0000	9.8481			
Calculated Physical	Properties	T	otal	C7+		
Relative Density Rea	l Gas	0.9	126	3.7019		
Calculated Molecular	Weight	26	5.30	107 22		
Compressibility Factor	or _	0 9	945			
26 # Gasoline		5 1	963			
GPA 2172-09 Calcul	ation:					
Calculated Gross B	TU per ft³ @	14.65 psia & 6	60°F			
Real Gas Dry BTU		141	17.9	58 5 7.4		
Water Sat Gas Base	BTU	139	93 8	5754 9		

Comments: H2O Mol%: 1.750; Wt%: 1 206

Hydrocarbon Laboratory Manager

Quality Assurance:

The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated



Catalyst Oilfield Services 11999 E Hwy 158 Gardendale, TX 79758 (432) 563-0727 Fax: (432) 224-1038

OIL ANALYSIS

Customer:

COG Operating LLC - NM

Report Date

3/22/2017

Area:

Shelf - New

Date Range:

12/22/2016 - 3/23/2017

Lease:

Burch-Keely Unit

Location	Sample Point	Sample Date	API Gravity	Gel Point (°F)	Pour Point (°F)	Cloud Point (°F)	% Paraffin	% Asphaltene	
363	Wellhead	3/15/2017	36				3 746	0 39	
370	Wellhead	3 15/2017	38				3 171	0 098	



Catalyst Oilfield Services 11999 E Hwy 158 Gardendale, TX 79758 (432) 563-0727 Fax: (432) 224-1038

Water Analysis Report

Customer

COG Operating LLC - NM

Sample #.

44132

Area:

Shelf - New

Analysis ID #.

42174

Lease:

Burch-Keely Unit

Location

363

0

Sample Point:

Wellhead

Sampling Date:	3/15/2017	Anlons	mg/l	meq/l	Cations	mg/l	meq/l	
Analysis Date:	3/28/2017	Chloride:	100412.6	2832.27	Sodium:	60910.0	2649.44	
Analyst:	Catalyst	Bicarbonate:	483.1	7.92	Magnesium:	897.5	73.83	
TDC (mail as alm2).	170020.7	Carbonate:			Calcium:	3247.0	162.03	
TDS (mg/l or g/m3):	1.114	Sulfate:	3100.0	64.54	Potassium:	778.7	19.91	
Density (g/cm3):	I. (14)	Borate*:	129.9	0.82	Strontium:	61.9	1.41	
		Phosphate*:			Barium:	0.0	0.	
Hydrogen Sulfide	10				Iron:	0.0	0.	
Carbon Dioxide	132		ased on measured on and phosphor	~	Manganese:	0.000	0.	
_		pH at time of samp	oling	6 54				
Comments		pH at time of analy	rsis.					
		pH used in Calculation: 6.54						
		Temperature @ la	b conditions (F):	75	Conductivity (mid Resistivity (ohm	187000 .0 5 35		

		Values Calculated at the C			en Conditions - Amounts of Scale in Ib/1000 bbl						
Temp	1			Gypsum CaSO ₄ 2H ₂ 0		Anhydrite CaSO ₄		Celestite SrSO ₄		rite aSO ₄	
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	0 48	30.30	-0.03	0.00	-0 02	0.00	-0 06	0 00	0 00	0 00	
100	0 56	36.24	-0.11	0.00	-0 03	0 00	-0 09	0 00	0 00	0.00	
120	0 64	42 47	-0.17	0.00	-0 01	0 00	-0 11	0 00	0 00	0 00	
140	0 73	49.01	-0.22	0 00	0 03	70 69	-0 11	0 00	0 00	0 00	
160	0 80	55 84	-0.26	0.00	0.09	198.40	-0 11	0 00	0 00	0 00	
180	0 88	62 67	-0.30	0 00	0 17	344 53	-0 11	0.00	0 00	0 00	
200	0.96	69 80	-0.33	0.00	0.25	496 31	-0 09	0 00	0 00	0 00	
220	1.04	76 33	-0.36	0.00	0 35	643 33	-0 08	0 00	0.00	0 00	



Catalyst Oilfield Services 11999 E Hwy 158 Gardendale, TX 79758 (432) 563-0727 Fax: (432) 224-1038

Water Analysis Report

Customer

COG Operating LLC - NM

Sample #:

44133

Area.

Shelf - New

Analysis ID#.

42175

Lease

Burch-Keely Unit

Location

370

0

Sample Point

Wellhead

Sampling Date:	3/15/2017	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	3/28/2017	Chloride:	91121.8	2570.21	Sodium:	57750.0	2511.98
Analyst:	Catalyst	Bicarbonate:	614.9	10.08	Magnesium:	324.3	26.68
TDS (mg/l or g/m3):	170020 7	Carbonate:			Calcium:	1985.0	99.05
Density (g/cm3):	1 104	Sulfate:	3200.0	66.62	Potassium:	355.6	9.09
Density (greins).	1 104	Borate*:	30.5	0.19	Strontium:	31.2	0.71
		Phosphate*:			Barlum:	0.0	0.
Hydrogen Sulfide	15				Iron:	0.0	0.
Carbon Dioxide	66	*Calculated based on measured elemental boron and phosphorus.			Manganese:	0.000	0.
0	: -	pH at time of sampling: 7 pH at time of analysis: pH used in Calculation: 7					
Comments							
Temperature @ lab conditions (F):			75	Conductivity (micro-ohms/cm): Resistivity (ohm meter):		186200 .0537	

	Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl									
Temp	Calcite CaCO ₃		Gypsum CaSO4*2H ₂ 0		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	0.48	30 72	-0.03	0.00	-0.02	0.00	-0 06	0 00	0 00	0.00
100	0 56	36 74	-0.11	0.00	-0 03	0.00	-0 0 9	0 00	0.00	0 00
120	0.64	43 07	-0.17	0.00	-0.01	0.00	-0 11	0 00	0 00	0 00
140	0.73	49 69	-0.22	0.00	0.03	71.68	-0 11	0 00	0 00	0.00
160	080	56 62	-0.26	0.00	0.09	201.18	-0 11	0 00	0 00	0 00
180	0 88	63 55	-0 30	0.00	0.17	349.35	-0 11	0 00	0 00	0 00
200	0 96	70 77	-0 33	0.00	0.25	503 25	-0 09	0 00	0 00	0 00
220	1 04	77 40	-0.36	0.00	0.35	652.32	an na	0.00	0.00	0.00

RECEIVED	REV EWER:	TYPE:	APP NO:	
		ABOVE THIS TABLE FOR GOD 6	DANIZOU RECOUTA	
	- Geolog	CO OIL CONSERV ical & Engineering rancis Drive, Sant	g Bureau –	
	ADMINIST	RATIVE APPLICATI	ON CHECKLIST	
THIS	CHECKLIST IS MANDATORY FOR A REGULATIONS WHICH F	ALL ADMINISTRATIVE APPLIC REQUIRE PROCESSING AT THE		
·bb	G Operating LLC			ID Number: 229137
· · · · · · · · · · · · · · · · · · ·	rch Keely Unit #363			30-015-32992
ool: Grayburg Jacks	on;SR-Q-G-SA		Pool	Code:
SUBMIT ACCUR	ATE AND COMPLETE IN	IFORMATION REQUI		THE TYPE OF APPLICATION
1) TYPE OF APPL	ICATION: Check those			
,	n – Spacing Unit – Simu		•	
	NSL □ NSP(PROJECTAREA) NS	Peroration unity	SD
[1] Con [II] Inje [II] Inje 2) NOTIFICATIO A. Offse B. Royo C. Appl D. Notifi E. Notifi F. Surfa G. For a H. No n 3) CERTIFICATIO	ction – Disposal – Press WFX PMX :: N REQUIRED TO: Check th operators or lease how the control of the concurrence of the concurred of the above, proof- totice required N: I hereby certify tha	PLC PC Consult PC	anced Oil Recoversor On PPR Ublication is attacted with this	FOR OCD ONLY Notice Complete Application Content Complete thed, and/or, application for
administrative understand t	e approval is accurate hat no action will be to are submitted to the D	and complete to aken on this application	the best of my kn	owledge. I also
1	Note: Statement must be comp	leted by an individual witl	n managerial and/or sup	pervisory capacity.
			5317	
Kanicia Castillo			Date	
Print or Type Name	ng garage and the same and the	· · · · · · · · · · · · · · · · · · ·		
Thin or type ridine			432-685-4332	
\/	(-		Phone Number	· · · · · · · · · · · · · · · · · · ·
K			kcastillo a concho	com
Signature		,	e-mail Address	

District I 1625 N. French Drive, Hobbs, NM 8824/

District []

State of New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr

Form C-107A Revised August 1, 2011

APPLICATION TYPE
Single Well

District III 1000 Km Brazos Rowl. Artec, NM 87410 District IV	1220 South St Santa Fe, N	Francis Dr Fiew Mexico 87505	Single Well Establish Pre-Approved Pools EXISTING WELLBORE							
1220 S St Francis Dr Samu Fe, NM 87505	APPLICATION FOR D	OWNHOLE COMMINGLING								
COG Operating LLC, 600 West Illionois Ave, Midland, TX 79701										
Burch Keely Unit	363 L, 1 Well No. Unit Letter-S	9, 17S, 30E Section-Township-Range	Eddy County							
OGRID No. <u>229137</u> Property Code <u>308086</u> API No <u>30-015-32992</u> Lease Type <u>X</u> FederalStateFee										
DATA ELEMENT UPPER ZONE INTERMEDIATE ZONE LOWER ZONE										
Pool Name Grayburg Jeckson;SR-Q-G-SA Burch Keely-Glorieta-Upper Yeso										
Pool Code	28509		97918							
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2927 - 4044		4224 - 4557							
Method of Production (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift							
Bottomhole Pressure (Note: Pressure data will see be required if the bottom										
perforation in the lower man is within 150% of the depth of the top perforation in the upper zone)	500 psi		500 psi							
Oil Gravity or Gas BTU (Degree API or Gas BTU)	36 / 1418		38 / 1448							
Producing, Shut-In or New Zone	Producing		Shul-in							
Date and Oil/Gas/Water Rates of										
Last Production. (Note: Fer new zones with no production history applicant shall be required to attach production	Date: 2016 Average	Date	Date 2014 Average							
estunetes and supporting data)	Rates. O-12 bbls, G-23 mcf, W-31 bbls	Rates	Rates O-3 bbis, G-22 mcf, W-2 bbis							
Fixed Allocation Percentage (Note: If allocation is based upon sensething other	Oil Gas	Oil Gas	Oil Gas							
then current or past production, supporting data or explanation will be required.	80 % 52 %	% %	20 % 49 %							
	ADDITION	NAL DATA	l							
Are all working, royalty and overriding If not, have all working, royalty and ov			Yes X No Yes > No							
Are all produced fluids from all commi	ngled zones compatible with each o	other?	Yes X No							
Will commingling decrease the value of	f production?		YesNoX							
If this well is on, or communitized with or the United States Bureau of Land M.			Yes X No							
NMOCD Reference Case No applicab	le to this well: NMNM88525X									
Attachments. C-102 for each zone to be commingled showing its spacing unit and acreage dedication. Production curve for each zone for at least one year. (If not available, attach explanation.) For zones with no production history, estimated production rates and supporting data. Data to support allocation method or formula. Notification list of working, royalty and overriding royalty interests for uncommon interest cases. Any additional statements, data or documents required to support commingling.										
PRE-APPROVED POOLS										
If application is to establish Pre-Approved Pools, the following additional information will be required										
List of other orders approving downhole commingling within the proposed Pre-Approved Pools List of all operators within the proposed Pre-Approved Pools Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application Bottomhole pressure data.										
I hereby certify that the information above is true and complete to the best of my knowledge and belief										
SIGNATURE	SIGNATURE TITLE Lead Regulatory Analyst DATE 5/3/17									
TYPE OR PRINT NAME Kanicia Castillo TELEPHONE NO (432) 685-4332										

E-MAIL ADDRESS kcastillo@concho.com

Conditions of Approval

COG Operating LLC Burch Keely Unit - 363, API 3001532992 T17S-R30E, Sec 19, 1750FSL & 1070FWL September 25, 2017

- 1. Within 90 days of these conditions of approval for the processed Electronic Submission #377576 notice of intent begin wellbore operations
- 2. Operator is required to have the BLM approved NOI procedure with applicable conditions of approval on location for this workover operation.
- 3. Due to being within the Lesser Prairie Chicken habitat, this workover activity will be restricted to the hours of 9:00am through 3:00am for the period of March 1 through June 15. Exceptions to these restrictions may be granted by BLM's Bob Ballard bballard@blm.gov 575.234.5973.
- 4. Before casing or a liner is added, replaced, or repaired prior BLM approval of the design is required. Use notice of intent Form 3160-5.
- 5. Subject to like approval by the New Mexico Oil Conservation Division...
- 6. Surface disturbance beyond the existing pad shall have prior approval.
- 7. A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.
- 8. Functional H₂S monitoring equipment shall be on location.
- 9. Blow Out Prevention Equipment 2000 (2M) to be used. All BOPE and workover procedures shall establish fail safe well control. Ram(s) for the work string(s) used is required equipment. Manual BOP closure system including a blind ram and pipe ram(s) designed to close on all (hand wheels or automatic locking devices) equipment installed regardless of BOP design. Function test the installed BOPE to 500psig when well conditions allow. Related equipment, (choke manifolds, kill trucks, gas vent or flare lines, etc.) employed when needed for reasonable well control requirements.
- 10. All waste (i.e. trash, salts, chemicals, sewage, gray water, etc.) created resulting from work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during any crew-intensive operations.
- 11. File intermediate **subsequent sundry** Form 3160-5 within 30 days of any interrupted workover procedures and a complete workover subsequent sundry.
- 12. Submit the BLM Form 3160-4 Recompletion Report within 30 days of the date all BLM approved procedures are complete.