OCD-ARTESIA Form 3160-5 FORM APPROVED UNITED STATES (April 2004) OM B No 1004-0137 Expires March 31, 2007 DEPARTMENT OF THE INTERIOR OFC 'LU SISUNDRY NOTICES AND REPORTS ON WELLS OCD-Art TESISUNDRY NOTICES AND REPORTS ON WELLS abandoned well. Her Formation of the second seco 5 Lease Senal No NM - 85937 6 If Indian, Allottee or Tribe Name Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals. 7 If Unit or CA/Agreement, Name and/or No SUBMIT IN TRIPLICATE- Other instructions on reverse side. 1. Type of We Oil Well 🛭 🗆 Gas Well□□ 8. Well Name and No. Berry A Federal #4 2. Name of Operator COG Operating LLC API Well No. 30-015-04235 3a Address 3b. Phone No. (include area code) 550 W. Texas Ave., Suite 1300 Midland, TX 79701 432-685-4340 10. Field and Pool, or Exploratory Area Grybg Jackson SR Queen Grybrg SA 4 Location of Well (Footage, Sec., T, R., M, or Survey Description) 11 County or Parish, State Unit F, 2310 FNL & 2310 FWL, Section 21, T17S, R30E Eddy County, NM 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Acidize Water Shut-Off Production (Start/Resume) Deepen Notice of Intent Alter Casing Reclamation → Well Integrity Fracture Treat ✓ Other Recomplete to Casing Repair New Construction Recomplete Change Plans Yeso & Plug and Abandon Final Abandonment Notice Convert to Injection Plug Back Water Disposal commingle w/ SA 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.) COG Operating LLC proposes to recomplete to the Yeso as follows: 1. MIRU. POOH w/ rods and tbg. 2. Perf Yeso from 5670' - 5870' w 2 spf and 30 holes. Acidize perfs w/ 2500 gals of acid. Frac Yeso perfs with 89,200 # of 16/30 sand down tubing. 3. Set plug at 5620'. Perf Yeso from 5400' ~ 5600' w/2 spf and 30 holes. Acidize perfs w/ 2500 gals of acid. Frac Yeso perfs with 89,200 # of 16/30 sand down tubing. 4. POOH w/ frac string.Retrieve plug at 5620'. RIH w/rods and tbg. EOT at 5900'. Restore production(from 2615;3388' and 5400;5870' COG proposes to down hole commingle the Grayburg Jackson SR Queen Grayburg SA, (28509) with the Loco Hills; Glorieta-Yeso, (96718). Commingling will not reduce the value of the total remaining production. The proposed intervals are as follows: Grayburg Jackson SR Queen Grayburg SA 2615' - 3392' Loco Hills; Glorieta-Yeso 5400' - 5870' Percentages to be determined after completion. DEC 18 2007 Ownership in all zones is the same. I hereby certify that the foregoing is true and correct Name (Printed/Typed) LES BABYAK PETROLEUM ENGINEER Kanicia Carrillo Title Regulatory Analyst

> THIS SPACE FOR FEDERAL OR STATE OFFICE USE Title Date

Date

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

Office

12/12/2007.

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)

Signature

Approved by

SUBJECT TO LIKE APPROVAL BY STATE



December 12, 2007

New Mexico Oil Conservation Division Attn: Will Jones 1220 South St. Francis Drive Santa Fe, NM 87505

Re: Request for Down Hole Commingling and Measurement of Hydrocarbon Production for:

Berry A Federal #4 Eddy County, NM API # 30-015-04235

Pools:

(28509) Grayburg Jackson SR; Queen Grayburg SA (96718) Loco Hills; Glorieta-Yeso

Dear Mr. Jones,

COG Operating LLC as operator of the above mentioned well respectfully requests approval for down hole commingling and measurement of production.

COG proposes to commingle production from the above mentioned pools. Production will be measured at the Berry A Federal battery located in the NW/4 SE/4, Section 21, T17S, R30E. The lease has common interest in both pools. Testing will be conducted and allocation percentages will be sent to OCD after completion of this well. The subtraction method will be used to allocate production based on increased production from the Yeso formation.

Please contact me at 432-685-4332 or e-mail at <u>kcarrillo@conchoresources.com</u> if you need additional information.

Thank you for your attention in this matter.

Sincerely,

COG Operating LLC

Kanicia Carrillo Regulatory Analyst

Attachments:

C-107A and C-102's for both formations

DATE ÎN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



kcarrillo@conchoresources.com

e-mail Address

ADMINISTRATIVE APPLICATION CHECKI THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE **Application Acronyms:** [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response] **TYPE OF APPLICATION** - Check Those Which Apply for [A] [1] Location - Spacing Unit - Simultaneous Dedication ☐ NSL ☐ NSP ☐ SD Check One Only for [B] or [C] Commingling - Storage - Measurement ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM ⊠ DHC [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR [D] Other: Specify NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [2] Working, Royalty or Overriding Royalty Interest Owners [A] [B] Offset Operators, Leaseholders or Surface Owner [C]Application is One Which Requires Published Legal Notice [D] Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office [E] For all of the above, Proof of Notification or Publication is Attached, and/or, [F] Waivers are Attached SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE [3] OF APPLICATION INDICATED ABOVE. CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division. Note: Statement must be completed by an individual with managerial and/or supervisory capacity. Kanicia Carrillo Regulatory Analyst 12/12/07 Print or Type Name Date

District 1

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, 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 Department

OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102 Revised June 10, 2003

Submit to Appropriate District Office

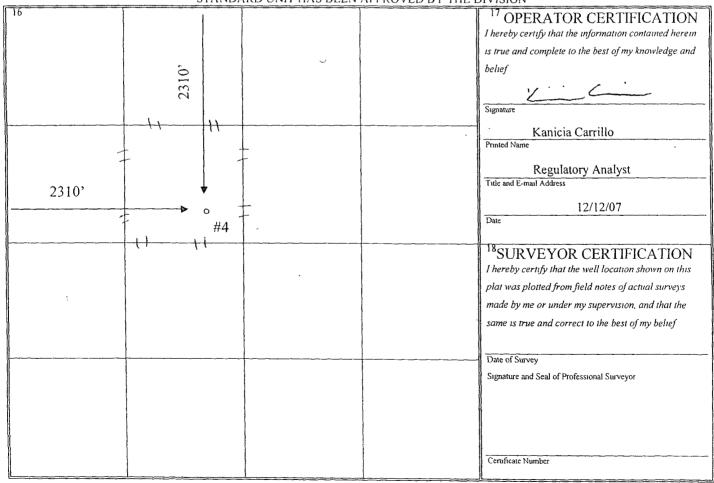
State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

		VV	ELL LO	CATION	AND ACK	EAGE DEDIC	ATIONTLA	1	
API Number 2 Pool			² Pool Code		³ Pool Name				
30-0	30-015-04235 96718					Loco Hills; Glorieta-Yeso			
4 Property C	ode	⁵ Property Name					6 W	⁶ Well Number	
006051	1				Berry A Fe	ederal			4
⁷ OGRID N	0				8 Operator !	Name		,	Elevation
. 229137					COG OPERAT	ING LLC			3648
¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Let Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	21	17S	33E		2310	North	2310	West	Eddy
			11 Bo	ttom Hol	e Location It	f Different Fror	n Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
				1			·		
12 Dedicated Acres	13 Joint of	Infill 14 C	onsolidation	Code 15 Ord	ter No.	·			
40				1					
l									

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



District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, 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 Department

OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102 Revised June 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Numbe	r	Pool Code	³ Pool Name		
30-015-042	35	28509 Grayburg Jackson SR; Queen G		ayburg SA	
3 Property Code		' Property Name			
006051		Berry A Federal			
⁷ OGRID №.		8 Operator Name			
229137		COG OPERATING LLC			

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
F	21	17S	33E	į	2310	North	2310	West	Eddy
11 Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
1			1						

12 Dedicated Acres 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-

	AKD UNIT HAS BEEN AFFROVED BY THE	
16		¹⁷ OPERATOR CERTIFICATION
		I hereby certify that the information contained herein
		is true and complete to the best of my knowledge and
,0		belief
2310'		Y' C
		Signature
\-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Kanicia Carrillo
	1	Printed Name
7		Regulatory Analyst
2310'		Title and E-mail Address
2310		12/12/07
#4		Date
		L-10
		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
		Signature and Seal of Professional Surveyor
		Ceroficate Number

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised June 10, 2003

District II

District III
1000 Rio Brazos Road Aziec NM 87410

District IV

1220 S. St. Francis Dr., Santa Fc, NM. 87505

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

APPLICATION TYPE

APPLICATION FOR DOWNHOLE COMMINGLING

	Single	: Wel
Establish Pre-A	Approved	Pool
EXISTING	G WELLI	BORE
,	Yes	No

COG OPERATING LLC		exas, Suite 550	Midland, TX 79701
Berry A Federal		F, Sec 21, T-17S, R-30E	Eddy
Lease		-Section-Township-Range	County
OGRID No. 229137 Property Co	de API No30-	015-04235 Lease Type:	√ Federal State Fee
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Grayburg Jackson SR, Queen Grayburg SA (Oil)	Loco Hills, Glorieta-Yeso	
Pool Code	28509	96718	
Top and Bottom of Pay Section	2615 - 3392	5400 - 5870	
(Perforated or Open-Hole Interval)	Pump		
Method of Production (Flowing or Artificial Lift)	·		5
Bottomhole Pressure (Note Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)			·
Oil Gravity or Gas BTU (Degree API of Gas BTU)			
Producing, Shut-In or New Zone	Producing	New Zone	
Date and Oil/Gas/Water Rates of Last Production. (Note For new zones with no production history, applicant shall be required to attach production estimates and supporting data)	Date: 12/10/07 Oil/ Gas /Water Rates: 2/1/6	Date:	Date: Rates:
Fixed Allocation Percentage	Oil Gas	Oil Gas	Oil Gas
(Note—If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Percentages to be determined after completion.	Percentages to be determined after completion.	% %
	ADDITIO	DNAL DATA	
Are all working, royalty and overriding			Yes <u>√</u> No
If not, have all working, royalty and ov		·	Yes No
Are all produced fluids from all commi		other?	. Yes <u>√</u> No
Will commingling decrease the value o	•	d C	Yes No_ <u>√</u>
If this well is on, or communitized with or the United States Bureau of Land Man NMOCD Reference Case No applicab	anagement been notified in writin	g of this application?	Yes No
Attachments C-102 for each zone to be comming Production curve for each zone for For zones with no production histor Data to support allocation method of Notification list of working, royalty Any additional statements, data or	gled showing its spacing unit and a at least one year. (If not available by, estimated production rates and or formula.	acreage dedication. e, attach explanation) supporting data. or uncommon interest cases.	
	PRE-APPR	OVED POOLS	
If application is		the following additional information	will be required.
List of other orders approving downhol List of all operators within the propose Proof that all operators within the propose Bottomhole pressure data	e commingling within the propos	ed Pre-Approved Pools	
I hereby certify that the information	above is true and complete to	the best of my knowledge and be	lief.
SIGNATURE C	TITLE	Regulatory Analyst	
		TELEPHONE NO. (432) 685-4332
E-MAIL ADDRESS kcarri			·