NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

		[SWD-Salt Water Disposal] [IX-Pressure Maintenance Expansion] IPI-Injection Pressure Increase] ication] [PPR-Positive Production	
[1]	TYPE OF AI [A]	PPLICATION - Check Those Which Location - Spacing Unit - Simultar NSL NSP SD		
	Check [B]	COne Only for [B] or [C] Commingling - Storage - Measurer DHC CTB PLC		
	[C]	Injection - Disposal - Pressure Incr		20
	[D]	Other: Specify		SO AL
[2]	NOTIFICAT [A]	ION REQUIRED TO: - Check Tho Working, Royalty or Overridi	se Which Apply, or 🔀 Does Not Apping Royalty Interest Owners	7
	[B]	Offset Operators, Leaseholder	rs or Surface Owner	FIVE
	[C]	Application is One Which Re	quires Published Legal Notice	20
	[D]	Notification and/or Concurren	at Approval by BLM or SLO Joner of Public Lands, State Land Office	9
	[E]	For all of the above, Proof of	Notification or Publication is Attached	, and/or,
	[F]	Waivers are Attached		
[3]		CURATE AND COMPLETE INFO	ORMATION REQUIRED TO PRO	CESS THE TYPE
	al is accurate a		mation submitted with this application edge. I also understand that no action are submitted to the Division.	
	Note	Statement must be completed by an indiv	idual with managerial and/or supervisory cap	pacity.
Kanicia C	Carrillo		Regulatory Analyst	04/09/08



April 15, 2008

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:

Harvard Federal #5

Harvard Federal #6

Eddy County, NM API # 30-015-34709 Eddy County, NM API # 30-015-35124

Harvard Federal #7

Harvard Federal #8

Eddy County, NM API # 30-015-35055

Eddy County, NM API # 30-015-35130

Pools:

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

Dear Mr. Jones,

COG Operating LLC as operator of the above mentioned wells 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 Harvard Federal battery located in the NE/4 SE/4, Section 11, 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 percentages will be used to allocate production based on increased production from the Grayburg/San Andres formation.

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

Thank you for your attention in this matter.

Sincerely,

COG Operating LLC

Kanicia Carrillo Regulatory Analyst

Attachments:

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

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240

<u>District II</u> 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

¹ API Number

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-015-34709				28509 Grayburg Jackson SR; Queen Grayburg SA										
⁴ Property Code				⁵ Property Name								⁶ Well Number		
302440						Harvard Federal							5	
⁷ OGRID No.					⁸ Operator Name								⁹ Elevation	
229137						COG OPERAT	ING LI	LC					3743	
						¹⁰ Surface	Locat	ion						
UL or lot no.	Section	Townshi	ip Range	L	ot Idn	Feet from the	North	n/South line	Feet fi	rom the	East/West I	ine	County	
Н	11	17S	30E			2310	ľ	North	9	90	East		Eddy	
			11 E	ottom	Но	le Location I	f Diff	erent Fron	n Surf	ace				
UL or lot no.	Section	Township	Rang	e L	ot Idn	Feet from the	No	orth/South line	Fee	t from the	East/W	est line	County	
12 Dedicated Acres 40	3 Joint of	r Infill	 	n Code	¹⁵ Or	der No.	<u> </u>							
NO ALLOWA	ABLE WI	LL BE A				OMPLETION U			D'	IVISION ITOPE I hereby ce is true and belief. Kan Printed Name Regul: Title and E-m 04/09 Date ISURY I hereby ce plat was pi made by m same is tru Referred Ori Date of Surv	ERATOR rtify that the in complete to the icia Carri atory Analy all Address 9/08 VEYOR Corrify that the wellotted from field the or under my the and correct to the ginal Plat ey discal of Profession	CERTI cell location of the best of the best of the best of the best of the cell location of the best		

District I 1625 N. French Dr., Hobbs, NM 88240 District II

1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u>

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Conta Es NIM 07505

Form C-102

Revised June 10, 2003 Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

District IV					Santa Fe, N	M 8/303						
1220 S. St. Francis	s Dr., Santa I	Fe, NM 8750:	5					AME	NDED REPORT			
		7	WELL LC	CATION	N AND ACR	EAGE DEDIC	ATION PLA	T				
1	API Numbe	r		² Pool Code			³ Pool Nat	ne				
30	-015-347	09		96718		Loco Hills; Glorieta-Yeso						
⁴ Property Code					6 V	Vell Number						
30244	0					5						
7 OGRID	No.				8 Operator I	5	⁹ Elevation					
22913	7				COG OPERAT	ING LLC		l	3743			
					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			
Н	11	17S	30E		2310	North	990	East	Eddy			
			11 Bc	ttom Ho	le Location It	f Different Fron	n Surface					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County			
12 Dedicated Acre 40	es la Joint o	r Infill 14	Consolidation	Code 15 Or	der No.							
NO ALLOW	ABLE WI	LL BE AS				NTIL ALL INTER	THE DIVISION					
							I hereby ce	ERATOR CER	ion contained herein			
							is true and	complete to the best of	y my knowieage ana			

r —————	T		1			17
						¹⁷ OPERATOR CERTIFICATION
						I hereby certify that the information contained herein
						is true and complete to the best of my knowledge and
						belief.
			2310'			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
			31			<u> </u>
			7	,	, ,	Signature
			/	/	/-/-	Kanicia Carrillo
		,	/		,	Printed Name
		,				Regulatory Analyst
			/ ,	Į,		Title and E-mail Address
		'] '	,	990'	04/09/08
			/	∘		04/09/08 Date
		/	,			Date
				_/	$-\!\!\!/-\!\!\!\!/-$	18SURVEYOR 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.
						Referred Original Plat
						Date of Survey
						Signature and Seal of Professional Surveyor:
						Certificate Number
			•			<u> </u>

District I 1625 N. French Drive, Hobbs, NM 88240

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised June 10, 2003

District II

1301 W. Grand Avenue, Artesia, NM 88210

<u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

E-MAIL ADDRESS___

kcarrillo@conchoresources.com

Oil Conservation Division

1220 South St. Francis Dr. Santa Fe, New Mexico 87505 APPLICATION TYPE _Single Well

APPLICATION FOR DOWNHOLE COMMINGLING

Establish Pre-Approved Pools
EXISTING WELLBORE
Yes ____No

		DAG- 4	036)
COG OPERATING LLC Operator		exas, Suite 550	Midland, TX 79701
Harvard Federal	5 Unit H,	Sec 11, T-17S, R-30E	Eddy
Lease		r-Section-Township-Range	County
OGRID No. 229137 Property Co	ode <u>302440</u> API No. <u>30-0</u>	015-34709 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 (Oil)	
Pool Code	28509	96718	
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2725 - 4200	4607 - 5331	
Method of Production		Pump	
(Flowing or Artificial Lift)			
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 or Gas BTU)			
Producing, Shut-In or New Zone	New Zone	Producing	
Date and Oil/Gas/Water Rates of Last Production.			
(Note: For new zones with no production history, applicant shall be required to attach production	Date:	Date: 04/02/08 Oil/ Gas /Water	Date:
estimates and supporting data.)	Rates:	Rates: 14/ 42/18	Rates:
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or	Oil Gas Percentages to be determined after	Oil Gas Percentages to be determined after completion.	Oil Gas %
explanation will be required.)	completion.	uner completion.	70 70
	<u>ADDITIO</u>	NAL DATA	
Are all working, royalty and overriding If not, have all working, royalty and over			Yes <u>√</u> No Yes No
Are all produced fluids from all commit	ngled zones compatible with each	other?	Yes <u>√</u> No
Will commingling decrease the value of	f production?		Yes No√
If this well is on, or communitized with or the United States Bureau of Land Ma			Yes No √
NMOCD Reference Case No. applicabl	e to this well:		
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 comments.	at least one year. (If not available y, estimated production rates and or formula. and overriding royalty interests for	, attach explanation.) supporting data. or uncommon interest cases.	
	PRE-APPRO	OVED POOLS	
If application is	to establish Pre-Approved Pools, t	the following additional information w	ill be required:
List of other orders approving downhole List of all operators within the proposed Proof that all operators within the proposed Bottomhole pressure data.	Pre-Approved Pools	• •	
I hereby certify that the information	above is true and complete to	the best of my knowledge and beli	ef.
SIGNATURE V ·· C	TITLE	Regulatory Analyst	DATE <u>04/11/08</u>
TYPE OR PRINT NAME <u>Kani</u>	cia Carrillo	TELEPHONE NO. (432) 685-4332

Form 3160-5 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OM B No. 1004-0137 Expires: March 31, 2007

	5. Lease Serial No.						
SUNDRY Do not use the abandoned w	6. If Indian	6. If Indian, Allottee or Tribe Name					
SUBMIT IN TR	IPLICATE- Other instr	ructions on rev	verse side.	7. If Unit or	CA/Agreement, Name and/or No.		
1. Type of Well Oil Well 🗆	Gas Well 🗆 🗀 Other			8. Well Nar	me and No.		
2. Name of Operator COG Operat	ting LLC			Harvar	d Federal #5		
3a Address	lude area code)	9. API We 30-015-					
550 W. Texas Ave., Suite 1300 4. Location of Well (Footage, Sec.,		432-685-4332		-1	d Pool, or Exploratory Area ills;Glorieta-Yeso 96718		
Unit H, 2310 FNL & 990 FEL				11. County or Parish, State Eddy County, NM			
12. CHECK A	PPROPRIATE BOX(ES) TO	INDICATE NAT	URE OF NOTICE, R	EPORT, OR	OTHER DATA		
TYPE OF SUBMISSION		-	TYPE OF ACTION				
Notice of Intent Subsequent Report Final Abandonment Notice	Acidize Alter Casing Casing Repair Change Plans	Deepen Fracture Treat New Construction Plug and Abando Plug Back	n Temporarily Al		Water Shut-Off Well Integrity ✓ Other Recomplete to GB/SA &		
	Convert to Injection		Water Disposal		commingle w/ Yeso rk and approximate duration thereof.		
Attach the Bond under which the following completion of the investing has been completed. Fit determined that the site is ready COG Operating LLC promiting unit. POOH the MIRU Pulling unit. POOH the MIRU WLU. RIH are sand in 22# cross link gel. configuration as previously pulling unit.	the work will be performed or proviously object on the operation. If the operation in all Abandonment Notices shall be for final inspection.) poses to recomplete to the GB/H w/ rods and stand all rods band perforate Grayburg and Sar RDMO Frac crew. RIH w/ tbg	de the Bond No. on firesults in a multiple of iled only after all required only after all required only after all required only after all required on the interest of the inte	ile with BLM/BIA. Requirempletion or recompletion in interments, including reclamate the with	ed subsequent ren a new interval ation, have been RIH on the Secrew. Frac Gonto RBP and previously in v	a, a Form 3160-4 shall be filed once in completed, and the operator has bet RBP at +/-3800'. POOH w/ B/SA perfs with 100, 000# of POOH. RIH w/ same tbg well. Hang well on beam. RDMO		
The proposed intervals are Grayburg Jackson SR Qu Loco Hills; Glorieta-Yeso Percentages to be determing Ownership in all zones is t	e as follows: een Grayburg SA 2725' - 4 4607' - 5 ned after completion. he same.	200'					
14 I hereby certify that the fore Name (Printed/Typed)	going is true and correct						
Kanicia Carrillo		Title	Regulatory Analyst		-		
Signature /		Date					
	THIS SPACE FOR F	EDERAL OR	STATE OFFICE	USE			
Approved by Conditions of approval, if any, are a certify that the applicant holds legal which would entitle the applicant to Title 18 U.S.C. Section 1001 and Title	or equitable title to those rights in conduct operations thereon.	the subject lease	Office		department or agency of the United		
0		, poison	una miniuily ti	- mane to any	asparanoni or agoney or me onned		

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.