		PTG PTG-W
DATE IN	1,27.12 SUSPEN	SE ENGINEER WIJ LOGGED IN 1, 27.12 TYPE THE APP NO. 1202750041
		ABOVE THIS LINE FOR DIVISION USE ONLY
	•	ABOVE THIS LINE FOR DIVISION USE ONLY NEW MEXICO OIL CONSERVATION DIVISION
`		- Engineering Bureau - 1220 South St. Francis Drive, Santa Fe, NM 87505
		1220 South St. Manches Drive, Santa re, NM 87505 CJK #134
,		ADMINISTRATIVE APPLICATION CHECKLIST 30-075-0966/
Т	HIS CHECKLIST IS M	IANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Applic	cation Acronym	s: ndard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
	-	nhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
	[PC-Po	ool 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-Qua	lified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE OF AI [A]	PLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication
	[A]	
	Check	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
	[B]	Commingling - Storage - Measurement
		\square DHC \square CTB \square PLC \square PC \square OLS \square OLM \square \square \square
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
		WFX PMX SWD IPI EOR PPR
	[D]	Other: Specify
[2]	NOTIFICAT	ION REQUIRED TO: - Check Those Which Apply, or Does Not Apply
	[A] [.]	Working, Royalty or Overriding Royalty Interest Owners
	[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 [4] 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.

Melanie Reyes

Signature

Engineer Assistant 1/24/12 Title

Print or Type Name

melanie.reyes@resacaexploitation.com e-mail Address

Date

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

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

District II 811 S. First St Artesia, NM 88210

District III oad, Aztec, NM 87410

District IV

State of New Mexico Energy, Minerals and Natural Resources Department Form C-107A Revised August 1, 2011

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

APPLICATION TYPE Single Well Establish Pre-Approved Pools EXISTING WELLBORE Yes _ _No

Lea

County

X

APPLICATION FOR DOWNHOLE COMMINGLIN
--

DY Resaca Operating Company 1331 Lamar Street, Suite 1450 Houston, TX 7701 Operator Address Cooper Jal Unit B-25-24S-36E 139 Well No. Unit Letter-Section-Township-Range Lease

ķ

OGRID No. 263848 Property Code 306443 API No. 30-025-09661 _ Lease Type: ___Federal State X Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Náme	Jalmat O		Langlie Mattix o M
Pool Code	33820		37240
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3014'-3222'	,	3465'-3545'
Method of Production (Flowing or Artificial Lift)	Artificial Lift		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)	37.7-Degree API		37.7 Degree API
Producing, Shut-In or New Zone	Producing		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: 11/10/2011	Date:	Date: 1/1/12
estimates and supporting data.)	Rates: 7 BOPD, 7 MCFPD 216 BWPD	Rates:	Rates: 3 BOPD, 3 MCFPD 56 BWPD
Fixed Allocation Percentage (Note: If allocation is based upon something other	Oil Gas	Oil Gas	Oil Gas
than current or past production, supporting data or explanation will be required.)	70 % 70 %	% %	30 % 30 %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?	Yes Yes	<u>X</u>	No No	
Are all produced fluids from all commingled zones compatible with each other?	Yes	<u>X</u>	No	
Will commingling decrease the value of production?	Yes		No <u>X</u>	
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application?	Yes		No <u>X</u>	
NMOCD Reference Case No. applicable to this well:				

Attac	hm	er	its:	
-		-		

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.

hereby certify that the informatio	n above is true and complete to	the best of my knowledge and belief.
------------------------------------	---------------------------------	--------------------------------------

SIGNATURE	TITLE	Engineer Assistant	DATE	1/3/12
TYPE OR PRINT NAME	Melanie Reyes	TELEPHONE NO.	(<u>432</u>)	<u>580-8500</u>

E-MAIL ADDRESS melanie.reyes@resacaexploitation.com

January 24, 2012

New Mexico Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Attention: Engineering Bureau

Re: Application to Downhole Commingle Jalmat/Langlie Mattix Pools Cooper Jal Unit #139 Unit Letter B; Sec. 25, T24S, R36E Lea County, New Mexico

Resaca Operating Company respectfully requests administrative approval to downhole commingle the Jalmat and the Langlie Mattix Pools within the subject wellbore. Notification of offset operators is not an issue given the fact that Resaca offsets all of the wells.

R E S A C A

OPERATING COMPANY

Downhole Commingling these wells will provide a more economical and efficient means of production. It will allow complete development of the productive capacity on the subject lease by allowing both pools to be artificially lifted simultaneously. This will extend the life of both completions, thereby preventing waste.

The subject well meet all of the requirements of Rule 303 (C). All produced fluids from other downhole commingled wells have entered a common production facility with no fluid compatibility problems.

If you have any questions, please contact Domingo Carrizales at (432) 580-8500.

Sincerely,

Kontra

Domingo Carrizales District Engineer

cc: NMOCD/Hobbs

2509 MAURICE ROAD ODESSA, TEXAS 79763 main: 432.580.8500 fax: 432.580.8501 www.resacaexploitation.com <u>District I</u>

I625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ A 30	r		² Pool Code ³ Pool Name 33820/37240 Jalmat/Langlie Mattix							
⁴ Property Code 306443			- .I	⁵ Property Name Cooper Jal Unit				6 Well N 13		
⁷ OGRID No. 263848				⁸ Operator Name Resaca Operating Company					⁹ Elevation 3314' KB	
,					¹⁰ Surface I	ocation				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
. <u>B</u>	25	248	36E		330	North	2310	East	Lea	
			" Bo	ttom Hol	e Location If	Different From	Surface			
UL or lot no.	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
1 ² Dedicated Acres 1 ³ Joint or Infill 1 ⁴ Consolidation Code 1 ⁵ Order No. 40 40										

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.

16		330'	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete
		Me-2310'	 to the best of my knowledge and belief, and that this organization either
		<i>c</i> , <i>c</i>	owns a working interest or unleased mineral interest in the land including
			the proposed bottom 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.
			J/3/2012 Signature Date
			<u>Melanie Reyes</u> Printed Name
	0	5	<u>melanie.reyes@resacaexploitation.com</u> E-mail Address
			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:
			Certificate Number
			Certificate Number

				SCHEMATIC AND HIST				
CURRENT COMPLETION SCHEMATIC	LEASE NAME			Cooper Jal Unit				WELL NO. 139
	STATUS:		Active		Oil			API# 30-025-09661
	LOCATION: SPUD DATE:	·	330 FNL & 23	310 FEL, Sec 25, T - 245 TD	, R - 36E; Lee County, Ne 3545	w Mexico KB	3,314	DF
	INT. COMP. D.	ATE:	05/26/5	4 PBTD	3355	GL	0,014	
		ELEC:	RIC LOGS:		GEOLOGICAL DAT	<u>A</u>	00055	
Surface Csg			INIC LUGS.				CORES	S. DST'S or MUD LOGS:
Hole Size: 11 in			54 Schlumberge	er)				
Csg. Size: 8 5/8 in Set @: 286 ft	GR-CCL (9-13							
Sxs Cmt: 150			,					
Circ: Yes TOC @: surf				HYROC.	RBON BEARING ZONE	DEPTH TO	<u>DPS:</u>	
TOC by: circ		Yates @ 30	14'	7-Rivers @ 3235'	Queen @ 3595'		•	
TOC @ 680'				,	g			
					CASING PROFILE			
	SURF.	8 5/8" - 24	#, H-40 set@	286' Cmt'd w/150 sx	- circ cmt to surf.			·····
DV Tool @ 1200'	PROD.		l#, H-40 s <u>et@</u>	3465' Cmt'd w/200 s	xs - TOC @ 2415' from	<u>m surf. D</u>		
	LINER	None						@ 680' f/ surf by calc.
	CSG. PERF	ç.		<u>cu</u>	RRENT PERFORATIO	IN DATA	OPEN HOLI	E : 3465 - 3545'
	1000. T LINE	J .					OFEN HOL	E. 0400-3040
TOC@ 2415'								
By Calc.	11-Sep-93	Perf'd Jal	mat w/ 2 spf 3	014'-32', 3035'-42', 30)70'-84', 3091'-3107', 3	3113'-31',	3138'-70', 3175	5'-88', & 3214'-22'
		(252 holes	total - 0.56" d	ia.)				
	TUBING DE	<u>TAIL</u>	11/25/2011	1 .	ROD DETAIL		11/25/2011	
	1		Detail) 11			
	Length (ft)	04	<u>Detail</u> 2 7/8" 55		Length (ft)	4	4 4/48 Y 001	Polichod Pod w/7/8" Din
	2550		2-7/8" J-55 2 7/8" x 4' ⁻	6.5# EUE 8rd	18 0	1 5		Polished Rod w/7/8" Pin /2" X 16' Liner
	295			6.5# EUE 8rd	4	1	4' - 7/8" Pon	
	31	1	2 7/8" x 31'		900	36	7/8" Steel R	-
	1	1		0 Seat Nipple	1375	55	3/4" SteelRo	ods
	19	1	2 7/8" v 19'	De-sander	600	24	1-1/2" K-Bar	s
	131	4	2-7/8" J-55	6.5# EUE 8rd	3	1	2 1/4" X 2" >	(20 RWBC w/1.25 X 1' SN
	3031	•	2-7/8" J-55	6.5 EUE 8rd	2900			
	WELL HISTOR	SUMMARY						
	26-May-54 Initial completion interval: 3465 - 3545' (Queen OH). Frac'd w/4,000 gals Dowell Stratofrac w/ 6,000#'s sand.							
	AIR= 12.6 bpm at 1200 psig. IP= 157 bopd 28-Jul-54 48 bopd, 0 bwpd, & GOR=1,072 (flowing on 15/64" choke)							
	28-Jul-54 48 bopd, 0 bwpd, & GOR=1,072 (flowing on 15/64" choke) 22-May-57 Frac'd OH w/17,000 gals, 25,000#'s 20/40 sand, 5,000#'s 10/20 sand. AIR=29 bpm @ 2700 psi. Before WO:							
					1 bopd, 0.2 bwpd, &			
					539'. Did not C/O. Ra	an injectio	on equipment &	initiated injection.
	05-Jun-73 23-Mar-79			g TD @ 3538' 1 1/4" sinker bar - cou	Ide't not below 2000'			
	23-Mar-79 28-Mar-79			ed TD @ 3482' (56' of				
				OH w/2,000 gals	,			
Yates @ 3014'	29-Mar-93			OH w/4,000 gais				
	11-Sep-93		-	• •				sg gun, 120 deg phasing
= 3014'-32'								22' (252 holes - 0.56" dia.) . ISIP= 78 psig. C/O sand
					D: 57 bopd, 330 bwp			
	16-Nov-93				eturned well to produc	tion.		
	03-Mar-95	•		Returned well to produ				
3091'-3107'	13-Apr-95 02-Dec-97			urned well to production 7/8" rod boxes. Hvd	n. rotested tbg - no bad j	ts. Retur	med well to prod	duction.
	18-Dec-00			laced pmp. Returned				
3113'-31'	27-Feb-02	Long strok						
	09-Sep-02		f hole with tubi laced well on p		in jt. Hydrotest tubing i	n nole. W	vell would not pu	ump - found scale and sand
3138'-70'	18-Jul-03				th 2 foot split. Reset T	AC, RIH	with pump and i	rods. PWOP.
3175'-88'	24-Jun-04	POOH with	n rods and pur	np. RIH with larger pu	mp and rods. PWOP.			
	18-Feb-05						I. RIH with prod	luction string - didn't hold
Production Csg. 3214'-22' Hole Size: 7 7/8 in	25-Mar-11				split #29 joint. PWOP rig up AIR UNIT, Tagg		80', cleaned of i	to 3,388'. Test casing to 500#. Found
Csg. Size: 5 1/2 in 7-R @ 3235'	mm		-	-	• • • • •			ng, Cement squeezed with 150 sxs
Set @: 3465 ft								250# resin coated sand plus 1.267
Sxs Cmt: 300 TOC @ 3388'					-			sand from 3149' to 3278'. PWOP.
Circ: No CIBP @ 3390'	15-Apr-11							and, recovered 10' of sand in M.A.).
TOC @: 680 f / sur		RIH with the	og, set TAC, p	ulled 16,000# tension	nipple up wellhead, ra	n in w/pu	mp, hung well o	n, rigged up Rapid Transport,
TOC by: calc.	04 11-11 11				ction, good, put well o			
<u>OH Interval</u> 3465 - 3545'	21-Nov-11			nng. RIH with 4 3/4" bi ≭ - okay. RIH with plun		ed CIBP (@ 3390' and Dri	iled out to TD @ 3,545'.
0,00,00,00,00,00,00,00,00,00,00,00,00,0		. iyarotooti						
								·.
	{							
PBTD: 3355 ft								
TD: 3545 ft								
OH IE 4 3/4 in Queen @ 3595'	.							
	PREPAR	ED BY:		Larry S. Adams	D. Carrizales		UPDATED:	13-Dec-11