DATE IN	1.27.12

SUSPENSE

ENGINEER WVJ

LOGGED IN 1,27,12

FIPE DHC

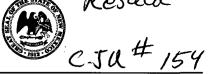
APP NO. 1202750592

ABOVE THIS LINE FOR DIVISION USE ONLY

### NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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



## ADMINISTRATIVE APPLICATION CHECKLIST 30-025-26284

		MANDATORY FOR ALL ADMINISTRATIVE APPLICA WHICH REQUIRE PROCESSING AT T		AND REGULATIONS
Applic	[DHC-Dov [PC-P	andard Location] [NSP-Non-Standard F vnhole Commingling]     [CTB-Lease Co vool Commingling]     [OLS - Off-Lease S	mmingling] [PLC-Pool/Lease Comn torage] [OLM-Off-Lease Measuren Pressure Maintenance Expansion] -Injection Pressure Increase]	ningling] ient]
[1].	TYPE OF A [A]	PPLICATION - Check Those Which A Location - Spacing Unit - Simultaneo  ☐ NSL ☐ NSP ☐ SD	pply for [A] us Dedication	sponse]
	Chec [B]	k One Only for [B] or [C]  Commingling - Storage - Measureme  DHC CTB PLC		
	[C]	Injection - Disposal - Pressure Increase  WFX PMX SWD	se - Enhanced Oil Recovery IPI EOR PPR	,
	[D]	Other: Specify		fee-lea
[2]	NOTIFICAT [A]	TION REQUIRED TO: - Check Those  Working, Royalty or Overriding	11 07	· J
	[B]	Offset Operators, Leaseholders of	or Surface Owner	
	[C]	Application is One Which Requi	res Published Legal Notice	
	[D]	Notification and/or Concurrent A U.S. Bureau of Land Management - Commissione	Approval by BLM or SLO of Public Lands, State Land Office	
	[E]	For all of the above, Proof of No	tification or Publication is Attached, a	nd/or,
	[F]	☐ Waivers are Attached		
[3]		CCURATE AND COMPLETE INFORTATION INDICATED ABOVE.	RMATION REQUIRED TO PROCE	ESS THE TYPE
	val is accurate	ATION: I hereby certify that the information and complete to the best of my knowled equired information and notifications are	ge. I also understand that no action w	
	Note	e: Statement must be completed by an individu	al with managerial and/or supervisory capac	ity.
	nie Reyes	MM_	Engineer Assistant	1/24/12
Print o	or Type Name	Signature	Title	Date
		•	melanie.reyes@resacae	kploitation.com

e-mail Address

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

<u>District II</u> 811 S. First St., Artesia, NM 88210

District III 1000 Rio Brazos Road, Aztec, NM 87410

District IV

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

E-MAIL ADDRESS <u>melanie.reyes@resacaexploitation.com</u>

#### State of New Mexico Energy, Minerals and Natural Resources Department

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

Form C-107A Revised August 1, 2011

ADDITION TYDE

#### APPLICATION FOR DOWNHOLE COMMINGLING

APPL	ICATIO	NIYPE
X Single V	Vell	
Establish	Pre-Ap	proved Pools
EXISTI	NG WE	LLBORE
<u>X</u>	_Yes _	No
Establish EXISTI	n Pre-Ap NG WE	LLBORE

Resaca Operating Company	1331 Lamar Street		. 10
Operator Cooper Jal Unit		Iress 5-24S-36E	4520 Lea
Lease .	Well No. Unit Letter-	Section-Township-Range	County
OGRID No. 263848 Property Co	ode <u>306443</u> API No. <u>30-</u>	025-26284 Lease Type:	_FederalState _X_Fee
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Jalmat @ April		Langlie Mattix 5
Pool Code	33820		37240
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2976'-3399'		3408'-3655'
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		Shut In (CIBP @ 3200')
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:	Date:
estimates and supporting data.)	Rates:	Rates:	Rates:
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or	Oil Gas	Oil Gas	Oil Gas %
explanation will be required.)	70 70	70 70	70 70
	ADDITION	NAL DATA	
Are all working, royalty and overriding If not, have all working, royalty and over			Yes X No
Are all produced fluids from all commin	ngled zones compatible with each o	other?	Yes_XNo
Will commingling decrease the value of	f production?		Yes NoX
If this well is on, or communitized with or the United States Bureau of Land Ma			Yes NoX
NMOCD Reference Case No. applicable	e to this well:		<u> </u>
Attachments:  C-102 for each zone to be comming Production curve for each zone for a For zones with no production histor Data to support allocation method o Notification list of working, royalty Any additional statements, data or design to the committee of the	at least one year. (If not available, y, estimated production rates and sur formula.  and overriding royalty interests for	attach explanation.) upporting data. r uncommon interest cases.	•
,	PRE-APPRO	VED POOLS	
If application is	to establish Pre-Approved Pools, th	e following additional information wi	II be required:
List of other orders approving downhold 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 t	he best of my knowledge and belie	ef.
SIGNATURE ////	TITLE_	Engineer Assistant	DATE 1/3/2012
TYPE OR PRINT NAME	Melanie Reyes	TELEPHONE NO. (	580-8500



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 #154

Unit Letter G; 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 with the subject wellbore. Notification of offset operators is not an issue given the fact that Resaca offsets all of the wells.

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 meets 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.

Resaca also requests the allocation of production for each pool be deferred until a stabilized production rate is established. Production will then be allocated to the Jalmat and Langlie Mattix Pools. Tests will be submitted on both pools on the Subsequent Sundry Report. If you have any questions, please contact Domingo Carrizales at (432) 580-8500.

Sincerely,

Domingo Carrizales
District Engineer

cc: NMOCD/Hobbs

District.I
1625 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.IY
1220 S. St. Francis Dr., Santa Fe, NM 87505

Phone: (505) 476-3460 Fax: (505) 476-3462

<sup>4</sup> Property Code

306443

OGRID No.

263848

<sup>1</sup> API Number

30-025-26284

# 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

<sup>3</sup> Pool Name

Jalmat/Langlie Mattix

☐ AMENDED REPORT

<sup>6</sup> Well Number

154

<sup>9</sup> Elevation

3296' GL

WELL	LOCATION	AND AC	REAGE	DEDICAT	TION PLAT
VV LLL	LOCATION	$\Delta M M$			

<sup>5</sup> Property Name

Cooper Jal Unit

8 Operator Name

Resaca Operating Company

<sup>2</sup> Pool Code

33820/37240

					Surface 1	Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	25	248	36E		1550	North	2400	East	Lea
	1	<u> </u>	" Bot	tom Ho	le Location If	Different From	Surface		<u></u>
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 Acre	es <sup>13</sup> Joint o	r In 611 14 C	Consolidation (	Codo 15 Ox	der No.	<u> </u>			
40	o o o o o o o o o o o o o o o o o o o		consolidation (	Joue   Oi					
No allowable division.	will be ass	signed to th	is complet	ion until a	ll interests have	been consolidated	or a non-standar	d unit has been app	roved by the
16				1			17 OF	PERATOR CERTI	FICATION
				i			ll l	that the information contained h	
							to the best of m	y knowledge and belief, and that	this organization either
							owns a working	interest or unleased mineral int	erest in the land including
				12			the proposed be	ottom hole location or has a righ	t to drill this well at this
				~1		,	II .	mt to a contract with an owner o	
ĺ							ll .	voluntary pooling agreement or	a compulsory pooling
				1	<del>-</del>		order heretofor	e entered by the division.	
ì				'				(K)	1/3/2012
				•-		2400'	Signature		Date
							Malasia Passa		
							Melanie Reye Printed Name	<u> </u>	···-
							melanie.reyes E-mail Addres	@resacaexploitation.com	
i									
				_			18SURV	EYOR CERTIF	ICATION
							11	rtify that the well location	
	l		•				ll -	otted from field notes of	
							II -		
						,	ll -	e or under my supervisio	
							same is tru	e and correct to the besi	of my belief.
	l						<u> </u>		
			-				Date of Surve	еу	
							Signature and	I Seal of Professional Survey	or:
							1		
							-	. Hr . In	
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						Į.	ll l		

		SCHEMATIC	LEASE NAME			Cooper Jal Unit	Proposed			WELL NO. 154	
			STATUS:		Active		Oil			API# 30-02526284	
	***	8 888	LOCATION:			2400 FEL, Sec 25, T - 24S,		New Mex	rico	7.11	
			SPUD DATE:		100011112 0.1	TD 36		KB	3,304'	DF	
			INT. COMP. D	DATE:	05/11/79	PBTD 31	65	GL	3,296'	The second secon	
							GEOLOGICAL DAT	Α			
		10100			TRIC LOGS:				CC	ORES, DST'S or MUD LOGS;	
Surface Csq					og (4-30-79 W	(ELEX)					
ole Size: 11 ir	0000000000		GR-CND (4-3		)						
sg. Size: 8 5/8 ir Set @: 365 ft			GR-N (5-3-79		-h						
Set @: 365 ft Sxs Cmt: 300			GR-CCL (6-29	9-99) Schlun	nberger	HVBOCAB	DON DEADING 70N	E DEDTU	TORC:		
						HIROCAR	BON BEARING ZON	EUEPIN	TOPS.		
Circ: Yes											
TOC @: surf				Yates @ 29	75'	7-Rivers @ 3195'	Queen @ 3574'				
TOC by: circ											
	2										
							<b>CASING PROF</b>	ILE			
		8	SURF.	8 5/8" - 24	#, K-55 set@	365' Cmt'd w/300 sxs -	- circ cmt to surfac	ce.			
	<b>**</b>		PROD.	5 1/2" - 15	5.5#, K-55 set(	@ 3655' Cmt'd w/600 s	xs - cmt circulated	to surfa	ce.		
			LINER	None			ALTERNATION OF THE PARTY OF THE				
				7,0,1,0		CURR	RENT PERFORAT	ION DA	TA		
			CSG. PERF	S.		-	terri i era orom	TOTAL DATE	OPEN HOL	E.	
					Rivers f/ 3246	- 3570' 1 spf (19 holes t	total)		OI LIVIIOL		
	<b>**</b>					006', 3026 - 46' & 3080		s bolon to	otal)		
			08-Jul-99	renu rai	12970 - 30	000, 3020 - 40 & 3000	- 94 W/ 2 Spi (116	noies it	ital).		
			TUBING DE	TAIL	12/28/11		ROD DETAIL		12/29/11		
	<b>**</b>		Length (ft)		Detail		Length (ft)		Detail		
			0		KB		18	1	26' x 1 1/4"	' P R w/ 7/8" Pin	
			2928	96	2 7/8" 6.5#	J-55, 8rd EUE tbg.	14	2	8',6' x 1" po		
			3	1	5 1/2" x 2 7		1100	44	1" steel rod		
			488	16		J-55, 8rd EUE tbg.	1675	67	7/8" steel ro		
			4	1	2 7/8" Tubi	ny Sub	600	24	1 1/2" sinke		
			1	1	2 7/8" SN	0.1	1	1	1' x 1" lift ro		
			4	1	2 7/8" Tubi		12	1		X 20' RHBC rod pump w/HVR	
			19	1	2 7/8" De-s	ander	0	1	16' x 1" GA		
			121	4	3" Mud And	chor	3420				
			3568		btm						
		3026'-3036'	18-Jun-83 15-Nov-86	sand in 2 of Replaced DSI 72 hr. C/O fill fro	equal stages. 1 jt tbg. pressure buil m 3505 - 3614	Max sand concentration d-up. 4' (109'). Acdz'd w/2,50	n reached was 2 p	pg. IP=2	64 bopd, 24 l	#s 20/40 sand & 15,000#s 10/2 bwpd, & 113 Mcfgpd (pmpg). I sealers. Before WO: .7 bopd,	
			18-Jun-83 15-Nov-86 10-Aug-88 14-Dec-95 08-Jan-96 08-Jul-99 21-Sep-99 28-Feb-02 29-Oct-02 10-Apr-03 21-Jul-06 04-Dec-06 07-Feb-11	sand in 2 or Replaced DSI 72 hr. C/O fill froo 12.7 bwpod Cut parraf salt blocks Change or Set CIBP (116 holes HCL using carrying 50 Change or Hydrotest Hydrotest Hydrotest Set a Beth Long strok POOH w/r POOH w/r POOH sold in the salt bloom strok POOH w/r	equal stages.  1 jt tbg. pressure buil m 3505 - 361/ 8 2.6 Mcfgpc in in top 1,000 s. AIR=3 bpm ut rod pump. @ 3200'. Tst s total) Ran d g 2,000#'s RS 2,000#'s RS 2,000#'s 16/30 ut rod pump. in hole. Repla in hole. Repla in hole. Repla plehem 228 pu ce well. rods, pump & total p	Max sand concentration d-up. 4' (109'). Acdz'd w/2,50'd. After WO: 11.2 bopd. D' of tbg. Acdz'd perfs 3: @ 650 psi. Returned w csg @ 550 psi. Good tsi mp bailer & dmp 35' of of in 4 stages. AIR=3 bpm 0 brady sand. AIR=30 bp ced 1 jt tbg. ced 3 jt tbg. Placed well umping unit. tbg. Hydrotest tbg in hol og. RIH w/ 4 3/4" bit, tagg 0 psig. Perf'd Yates f/ 3' in 4 1/2" work string. Set f se to Frac Valve. Pumper 3,150' to CIBP @ 3,200' 4' rods. POOH with tubin	on reached was 2 pm on reached was 2 pm on reached was 2 pm on the pm of the pm of the pm on the	HCL dro lofgpd 00 gals 2 06', 3026 P. PBTE 840#, PP=1021#, d split 92 n out to ( 3134'-4( annulus ob. Had oproductio 00# - bur	opping 25 ball own NEFE HC object & 3080 own 3165*. Ac 15min=460#. P15min=950 and & pin hole CIBP at 3,200° own 3142'-46', 3 to 500 psig. F oil shows on file on string to 7,0 st 99th & 98th	bwpd, & 113 Mcfgpd (pmpg).  I sealers. Before WO: .7 bopd, CL in 3 stages w/ 2 - 1,000# roc  2'-94' w/ 2 spf - 120 degree cdz'd 3,000 gals 15% NEFE  Frac w/16,249 gals X-link fluic D#. C/O sand to 3195'. PWOP.  2' RIH w/ 5 1/2" PKR, tagged tigh 1102'-30', 3,012'-26' & 3,060-70', Foam Sand Frac'd w/ 100,000 # 10w back. POOH w/ 4 1/2" work 100 psig. RIH with pump and rod 10 joints. Ran Press Gradient. PW	nt spots, 82', 16'30 si string 8 ds. PWC
Production Csc e Size: 7 7/8 ir g. Size: 5 1/2 ir Set @. 3655 ft 600 Circ: Yes OC @: surface OC by: circ		3080'-3094'  3060'-3070'  3012'-3026'  3102'-3130'  3134'-3140'  3170'-3180'  3182'-3193'  7-R @ 3195'	18-Jun-83 15-Nov-86 10-Aug-88 14-Dec-95 08-Jan-96 08-Jul-99 21-Sep-99 28-Feb-02 29-Oct-02 10-Apr-03 21-Jul-06 04-Dec-06 07-Feb-11 12-Aug-11 22-Nov-11	sand in 2 of Replaced DSI 72 hr. C/O fill fro 12.7 bwpod 2.7 cut parraf salt blocks Change or Set CIBP (116 holes HCL using carrying 5: Change or Hydrotest Hydrotest Set a Beth Long strok POOH w/r POOH w/r POPetro li Clean out 1 Long Strok POOH & la POOH with	equal stages.  1 jt tbg. pressure buil m 3505 - 361/ i & 2.6 Mcfgpc in in top 1,000 s. AIR=3 bpm ut rod pump. ② 3200'. Tst s total) Ran d j 2,000#'s 16/3 ut rod pump. in hole. Repla in h	Max sand concentration d-up. 4' (109'). Acdz'd w/2,50'd. After WO: 11.2 bopd. D' of tbg. Acdz'd perfs 3: @ 650 psi. Returned w csg @ 550 psi. Good tsi mp bailer & dmp 35' of of in 4 stages. AIR=3 bpm 0 brady sand. AIR=30 bp ced 1 jt tbg. ced 3 jt tbg. Placed well umping unit. tbg. Hydrotest tbg in hol og. RIH w/ 4 3/4" bit, tagg 0 psig. Perf'd Yates f/ 3' in 4 1/2" work string. Set f se to Frac Valve. Pumper 3,150' to CIBP @ 3,200' 4' rods. POOH with tubin	on reached was 2 pm on reached was 2 pm on gals 15% NEFE, 52 bwpd & 10 N on the state of the sta	HCL droicing of the control of the c	opping 25 ball own NEFE HC object & 3080 own 3165*. Ac 15min=460#. P15min=950 and & pin hole CIBP at 3,200° own 3142'-46', 3 to 500 psig. F oil shows on file on string to 7,0 st 99th & 98th	bwpd, & 113 Mcfgpd (pmpg).  I sealers. Before WO: .7 bopd, CL in 3 stages w/ 2 - 1,000# roc  9'-94' w/ 2 spf - 120 degree cdz'd 3,000 gals 15% NEFE Frac w/16,249 gals X-link fluic 0#. C/O sand to 3195'. PWOP.  e on 1st jt. PWOP.  '. RIH w/ 5 1/2" PKR, tagged tigh 1102'-30', 3,012'-26' & 3,060-70' Foam Sand Frac'd w/ 100,000 # Tow back. POOH w/ 4 1/2" work 000 psig. RIH with pump and rod	nt spots, 82', 16'30 si string 8 ds. PWC
e Size: 7 7/8 in g. Size: 5 1/2 in Set @: 3655 ft s Cmt: 600 Circ: Yes OC @: surface		3080'-3094'  3060'-3070'  3012'-3026'  3102'-3130'  3134'-3140'  3142'-3146'  3170'-3180'  7-R @ 3195'  CIBP @ 3200'  3246'-48'  3298'-3300'  3376'-78'  3382'-84'  3393'-99'  3408'-11'  3425'-29'  3456'-58'  3482'-86'  3568'-70'	18-Jun-83 15-Nov-86 10-Aug-88 14-Dec-95 08-Jan-96 08-Jul-99 21-Sep-99 28-Feb-02 29-Oct-02 10-Apr-03 21-Jul-06 04-Dec-06 07-Feb-11 12-Aug-11 22-Nov-11	sand in 2 of Replaced DSI 72 hr. C/O fill fro 12.7 bwpod 2.7 cut parraf salt blocks Change or Set CIBP (116 holes HCL using carrying 5: Change or Hydrotest Hydrotest Set a Beth Long strok POOH w/r POOH w/r POPetro li Clean out 1 Long Strok POOH & la POOH with	equal stages.  1 jt tbg. pressure buil m 3505 - 361/ i & 2.6 Mcfgpc in in top 1,000 s. AIR=3 bpm ut rod pump. ② 3200'. Tst s total) Ran d j 2,000#'s 16/3 ut rod pump. in hole. Repla in h	Max sand concentration d-up. 4' (109'). Acdz'd w/2,50'd. After WO: 11.2 bopd. 0' of tbg. Acdz'd perfs 3: @ 650 psi. Returned w csg @ 550 psi. Good tsi mp bailer & dmp 35' of of in 4 stages. AIR=3 bpm 0 brady sand. AIR=30 bp ced 1 jt tbg. ced 3 jt tbg. Placed well amping unit. tbg. Hydrotest tbg in hol og. RIH w/ 4 3/4" bit, tags 0 psig. Perf'd Yates f/ 31 14 1/2" work string. Set F set to Frac Valve. Pumper 3,150' to CIBP @ 3,200' 4' rods. POOH with tubin rods and tubing. Hydrote	on reached was 2 pm on reached was 2 pm on gals 15% NEFE, 52 bwpd & 10 N on the state of the sta	HCL droicing of the control of the c	opping 25 ball own NEFE HC object & 3080 own 3165*. Ac 15min=460#. P15min=950 and & pin hole CIBP at 3,200° own 3142'-46', 3 to 500 psig. F oil shows on file on string to 7,0 st 99th & 98th	bwpd, & 113 Mcfgpd (pmpg).  I sealers. Before WO: .7 bopd, CL in 3 stages w/ 2 - 1,000# roc  2'-94' w/ 2 spf - 120 degree cdz'd 3,000 gals 15% NEFE  Frac w/16,249 gals X-link fluic D#. C/O sand to 3195'. PWOP.  2' RIH w/ 5 1/2" PKR, tagged tigh 1102'-30', 3,012'-26' & 3,060-70', Foam Sand Frac'd w/ 100,000 # 10w back. POOH w/ 4 1/2" work 100 psig. RIH with pump and rod 10 joints. Ran Press Gradient. PW	nt spots, 82', 16'30 si string 8 ds. PWC
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