DHC

Den/4151313152

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

TH	IIS CHECKLI	ST IS MAI	NDAT						EXCEPTIONS			JLES #	ND REGULAT	IONS
Applic	· H d]	on-Stan C-Down [PC-Po [Y	dard hole ol Co NFX	Locat Comi mmin Watei	ion] [NS mingling gling] [(flood E) Salt Wat	P-Non-S] [CTB- DLS - Of (pansion er Dispo	tandard Lease Co ff-Lease : n] [PMX-I osal] [IPI	Proration om minglir Storage] Pressure -Injection	Unit] [SD-S g] [PLC-P OLM-Off-I Waintenan Pressure PR-Positiv	Simulta ool/Le; Lease I ce Exp Increas	ineous ase Co Measu ansion se] uction	mmireme	ngling] nt] ponse]	
[1]	TYPE (OF APF [A]		ation -		Unit - \$	Simultane	Apply for ous Dedic		- n	DHC ACK 138	7 / -Eh 3>	ensy a	anug nu
		Check ([B]		nmingl	or [B] or ing - Sto	rage - N	leasurem PLC	ent	□ OLS	_	OLM	+ (30	2iven 1 -015-4	11920
		[C]	Inje	ction - WFX		l - Press MX	ure Incre] SWD	ase - Enha	nced Oil R		y PPR	-CA S	10382 10382	cuj Bo
		[D]	Oth	er: Spe	cify								10382	
[21	NOTIF	ICATI [A]							pply, or□ Interest Ov			oly	WC-01 52327 4ppen 9812	156-0.
		[B]	\boxtimes	Offse	t Operate	ors, Leas	seholders	or Surfac	e Owner				9812	-5
		[C]		Appli	cation is	One Wl	hich Requ	iires Publi	shed Legal	Notice	e			
		[D]	\boxtimes						by BLM of ds, State Land O					
		[E]	\boxtimes	For a	ll of the	above, P	roof of N	otification	or Publica	ation is	Attach	ed, a	nd/or,	
		[F]		Waiv	ers are A	ttached								
[31					ND CO ICATEI			RMATIO	N REQUI	RED T	ΓO PR	OCE	SS THE T	YPE
	val is acc ı	urate ar	nd co	mplet	e to the b	est of m	ny knowle	edge. I als		nd that	no acti		or administr ill be taken	
		Note: S	tatem	ent mu	_				agerial and/	or super	rvisory c	apaci	ty.	. ,
	Weaver	ne		[Signature	u W	eave	<u>r</u>	Production Title	on Clerl	ζ	·	5.4.1 Date	5
. mit	n Type Ivan				Signature				dweaver@		m	_		



RECEIVED OCD

P.O. Box 960 Artesia, NM 88211-0960 Office (575) 748-1288 Fax (575) 746-9539

7915 MAY -8 P 3: 09

May 4, 2015

Oil Conservation Division Attn: Phillip R Goetze 1220 South St. Francis Dr. Santa Fe, NM 87505

Re:

Down Hole Commingling, and measurement of

Hydrocarbon Production for:

Lost River Fee #1

Section 23, T23S, R27E Eddy County, New Mexico

Mack Energy Corporation as operator of the aforementioned well respectfully requests administrative approval for down hole commingling and measurement of production.

Mack Energy proposes to commingle Bone Spring and Upper Wolfcamp production in the Lost River Fee #1. Production of both pools will be measured at the TB located in the SE/4 SE/4, Sec. 23 T23S R27E. This lease has common interest in both pools. Notification has been made to all parties owning an interest in this lease, including the oil purchaser of the intent to commingle. Allocation will be done using the fixed allocation percentage.

Should you require any additional information concerning this application, please call Deana Weaver at 575-748-1288. Thank you for your consideration of this request.

Sincerely,

MACK ENERGY CORPORATION

Deana Weaver Production Clerk dweaver@mec.com

DW/

Enclosures

District I

District III 1000 Rio Brazos Road, Aztec, NM 874 1 0

District 11

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

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 June 10, 2003

APPLICATION FOR DOWNHOLE COMMINGLING

APPLICATION TYPE

X Single Well

X Establish Pre-Approved Pools
EXISTING WELLBORE
X Yes No

Mack Energy Corporation			P.O. Box	960, Arte	esia, NM	88211	-0960			
Operator			Address							
Lost River Fee								Eddy County		
,										
OGRID No. 013837 Property Co.	de <u>40311</u> A	(PI No. <u>30-0</u>	J15-41920		Lease Type	:	_Federa	ılSı	tate X	Fee
DATA ELEMENT	UPPER ZONE INTERMEDIATE ZONE						LOWER ZONE			
Pool Name		WC-015 G-06 S232704H; Upper Wolfcamp								
PoolCode		98125								
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)			6834-9	194'			9194-9	273'		
Method of Production (Flowing or Artificial Lift)			Artifici	al Lift			Artifici	ial Lift		
Bottomhole Pressure (Note: Pressure data will not be required ifthe bottom perforation in the lower zone is within 150% ofthe depth of the top perforation in the upper zone)								,		
Oil Gravity or Gas BTU (Degree API or Gas BTU)			46.00				46.00			
Producing, Shut-In or New Zone			Produc	ing			New Z	one		
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history,	Date:		Date:	4/1/2015			Date: 4/1/2015			_
applicant shall be required to attach production estimates and supporting data.)	Rates:	Rates: 56/235/37				Rates: 2/10/2			_	
Fixed Allocation Percentage (Note: If allocation is based upon something other	oil	Gas	Oil		Gas		oil		Gas	_
than current or put production, supporting data or explanation will be required.)	%		% 96	%	96	%	4	%	4	%
		ADDIT	IONAL DA	ATA						
Are all working, royalty and overriding If not, have all working, royalty and over					ied mail?			Yes <u>X</u> Yes	No_ No_	
Are all produced fluids from all commi	ngled zones compa	tible with eac	ch other?						No	
Will commingling decrease the value o	•							Yes	No_X	
If this well is on, or communitized with or the United States Bureau of Land Ma						ds		Yes	No_}	<u> </u>
NMOCD Reference Case No. applicabl	e to this well:						_			
Attachments: C- 1 02 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-APP	ROVED P	ools						
If application is	to establish Pre-Ap	proved Pool	s, the follow	ing additio	onal informat	tio n w i	II be requ	uired:		
List of other orders approving downhol List of all operators within the propose Proof that all operators within the propose Bottornhole pressure data.	d Pre-Approved Po	ols							48.4	
I hereby certify that the information	above is true an		to the best		-	ıd beli	ief DATE	51	4.15	
TYPE OR PRINT NAME Deana V	Veaver	111LE	Toduction		PHONE NO) (ير 748-128		
E-MAIL ADDRESS dweaver@me										

District I 1625 N. French Dr., Holds, NM 88240 Phone. (575) 393-6161 Fax: (575) 393-0720 District II STUS, First St., Artesia, SM 55210 Phone, (575) 748-1283 Fax, (575) 748-9720 District JH 1000 Rio Brazos Road, Aztec, NM \$7410

Phone. (505) 334-6178 Fav: (505) 334-6170 District JV

1220 S. St. Francis Dr., Santa Fe. NM 87505 Phone, (505) 476-3460 Fax; (505) 476-3462

40

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

3015-	r	103	² Pool Code 180	une						
4 Property (Code				Well Number					
4031	L 1.				LOST RIVI	ER FEE			l	
OGRID :	No.				* Elevation					
13837	7			MACI		3132.8				
*					* Surface	Location				
UL or lot no,	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
P	23	23 S	27 E]	990	SOUTH	990	EAST	EDDY	
			" F	Bottom H	ole Location	If Different Fro	om Surface		, <u>I</u>	
UL or tot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
12 Dedicated Acres	O Joint of	r Infill PC	onsolidation	Code is Or	rder No.	<u> </u>	<u></u>	i		

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.

Г	N89'58'47"E	2637.77 FI N89°	58'47"E 2637.77 FT	"OPERATOR CERTIFICATION
1	NW CORNER SEC. 23	DNF	NE CORNER SEC. 23	I hereby certify that the information contained herein is true and complete
	LAT. = 32.2979949'N LONG. = 104.1694676'W	l l	LAT. = 32.2979767'N LONG. = 104.1523976'W	to the best of my knowledge and belief, and that this organization either
ii	NMSP EAST (FT)	i	NMSP EAST (FT)	owns a working interest or unleased mineral interest in the land including
ľ	N = 472181.79	1	N = 472183.66	the proposed bottom hole location or has a right to drill this well at this
N00.02	E = 591968.99	1	E = 597243.31 &	location pursuant to a contract with an owner of such a mineral or working
8	į	i	R	interest, or to a voluntary pooling agreement or a compulsory pooling
52 E		!	5	order heretofore emerced by the plix isign.
2653.		NOTE: LATITUDE AND LONGITUDE COORDINATES	2650.40	Deana Weller 5.4.15
\$		ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83).	1 1.40	Deana Weaver
ן⊐		USTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83), BASIS	그	Printed Name
	ļ	OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST		1 miles (same
		COORDINATES MODIFIED TO THE SURFACE.	· ·	dweaver@mec.com
]		SORFACE.	1	E-mail Address
	W/4 CORNER_SEC. 23 LAT. = 32.2907025 N	. 	+ <u>DNF</u>	
 	LONG. = 104.1694878'W	· LOST RIVE	R FEE #1	SURVEYOR CERTIFICATION
	NMSP EAST (FT) N = 469528.91	. ELEV. = 31.	32.8' j ["]	I hereby certify that the well locution shown on this
	E = 591966.78		2861289'N (NAD83) 04.1556333'W	I hereby certify that the well location shown on this SPATA plat was plotted from field notes of actual surveys
중	į	NMSP EAST		made by me on under my supervision, and that the
N00'05'31"E	i	N = 46787 E = 596250		
31	i		JRFACE 5	same is true and correct to the best of my belief.
J.	_ +		CATION	DECEMBER 26, 2013 (2791)
26	i		2650	Date of Survey
2657.00	' '			1 % 120
)OF	 	. 1		Controlle San well
-	SW CORNER SEC. 23 LAT. = 32.2834004*N		NEW SEC. 23 🖋	ST LIN THO SOLON JULIO
	LONG. = 104.1695147'W	LONG. = 104,1609741'W LONG. = 1	32.2834089'N & O4.1524377'X 1	Signature and Seal of Professional Surveyor
	NMSP EAST (FT) N = 466872.52	NMSP EAST (FT) NA	ASP EAST (FT)	Certificate Number FILIMON F. JARAMILI O. PLS 12797
	E = 591962.52		= 466864.08 = 597259.85	SURVEY NO. 2523
L'	\$89'51'57 " W		53'00"W 2638.62 FT	

District.1
1625 N. French Dr., Hobbs, NM 88240
Phone, (\$75) 393-6161 Fav. (\$75) 393-0720
District.11
\$11.5. First St., Artesia, NM 88210
Phone, (\$75) 748-1253 Fav. (\$75) 743-9720
District.11
1000 Rio Brazos Road, Aztec, NM 57410
Phone: (\$05) 334-6178 Fav. (\$05) 334-6170
District.1Y
1220 S. St. Francis Or., Santa Fe, NM 87505

Phone, (505) 476-3400 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	r	² Punl Cude			1 Pool Name							
30-01	0	9812	98125 WC-015 G-06 S232704H; U					Upper	Upper Wolfcamp			
4 Property				5 Proper						⁶ Well Number		
40311				LOST RIVER FEE						1		
⁷ OGRIĐ	OGRID No.		* Operator Name									
13837				MACK ENERGY CORPORATION						3132.8		
					" Surface	e Locatio	on					
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/	South line	Feet from the	East/W	est line	County	
P	23	23 S	27 E		990	so	UTH	990	EA	ST	EDDY	
	" Bottom Hole Location If Different From Surface											
UL or lut no.	Section	Township	Range	Lot idn	Feet from the	North/:	South line	Feet from the	East/W	est line	County	
1		,										
12 Dedicated Acres	1) Joint o	r Infill (4 Co	nsolidation	Code 15 O	rder No.							
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.

(
	N89'58'47"E	2637.77 FT 1/89'58'47"E	2637.77 FT		"OPERATOR CERTIFICATION
Ĭ.	NW CORNER SEC. 23	DNF	NE CORNER SEC. 23		I hereby certify that the information contained herein is true and complete
ı	LAT. = 32.2979949'N		LAT. = 32.2979767'N		to the best of my knowledge and belief, and that this organization either
1	LONG. = 104,1694676'W NMSP EAST (FT)	i l	LONG. = 104,1523976'W NMSP EAST (FT)		owns a working interest or unleased mineral interest in the land including
	N = 472181.79	!			the proposed bottom hole location or has a right to drill this well at this
8	E = 591968.99			Š	location pursuant to a contract with an owner of such a mineral or working
N00.05				8	interest, or to a voluntary pooling agreement or a compulsory pooling
5		' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	' I.	5.	order hereigtore entered by the division.
۳,	L	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		<	INVIDUITATION FILL
يرا		NOTE:	,	.,	11 DLUNUVUUUR : :).4.[1
2653.		LATITUDE AND LONGITUDE COORDINATES	8	7650	Signature Date
\$		ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83).	ˈ -	6	Danna Harran
1		USTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83), BASIS	=	긔	Deana Weaver
		OF BEARING AND DISTANCES USED ARE	1		
ľ	1	NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE			dweaver@mec.com
		SURFACE.			E-mail Address
	W/4 CORNER SEC. 23		DNF		•
	LAT. = 32.2907025'N LONG. = 104.1694878'W				"SURVEYOR CERTIFICATION
	NMSP EAST (FT)	LOST RIVER FEE' ELEV. = 3132.8'	#1		
1	N = 469528.91 E = 591966.78	LAT. = 32.2861289	"N (NAD83)	ľ	Thereby certify that the well location shown on this NY1,Q plat was plotted from field notes of actual surveys
_	E = 391900.70	LONG. = 104.1556			
8	-	NMSP EAST (FT) N = 467871.93	2	500.02,12	made by me on under my supervision, and that the
8		E = 596250.69	Ę	8	same is true and correct to the best of my belief.
N00'05'31"E		SURFACE:		5	DECEMBER 26, 2013 2791)
'		LOCATION	-/· -	`]	DECENTBER 26, 2015; Z
26	ĺ		V /	2650	Date of Survey
2657.00	İ				
	,	1		\$ F	Maria Marian well
] -1	SW CORNER SEC. 23 1 LAT. = 32.2834004'N 1	S/4 CORNER SEC 23 SE CORNER SEC		لر∹	TIN WO DO GOT JULO
:	LONG. = 104.1695147'W	LAT. = 32.2834050'N LAT. = 32.28340 LONG. = 104.1609741'W LONG. = 104.15243		/	Signature and Seal of Protessingal Surveyor
	NMSP EAST (FT)	NMSP EAST (FT) NMSP EAST	Xf) / (ار	Certificate Number FILIMON F. JARAMILI O. PLS 12797
	N = 466872.52 E = 591962.52	N = 466878.70 N = 46691 E = 594601.85 E = 5972		_	SURVEY NO. 2523
	S89'51'57'W	2639.94 FT S89'53'00"W	2638.62 FT		
Щ.	201 3 , 3 / N	23000			

MEMO

DATE:

April 2, 2015

TO:

NMOCD

FROM:

Travis K. Lanning

RE:

Lost River Fee #1

T23S, R27E, NMPM Section 23: SE/4SE/4,

Eddy County, New Mexico

Mack Energy Corporation respectfully requests approval to downhole commingle production from the Bone Spring and Wolfcamp formations in our Lost River Fee No. 1.

All formations have identical working and revenue interests.

Please do not hesitate to contact me should you require any further information.

Sincerely,

Mack Energy Corporation

Travis K. Lahning

Land Manager

DIVISION OF INTEREST

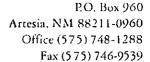
Lost River Fee

Fee Lease

T23S, 27E, Eddy County, NM

Section 23: SW/4SE/4, E/2SE/4, EXCEPT beginning at a point on the North line of the SW/4SE/4, of Section 23, 690 feet West of the NE corner of the said SW/4SE/4, then West a distance of 208.7 feet, thence South at a right angle a distance of 208.7 feet, thence East a distance of 208.7 feet, thence North a distance of 208.7 feet to the point of beginning.

OWNER#	OWNER	WL	NRI	TYP INT	SUS STAT
016810	Gumesinda C. Onsurez Revoca	able Trust	0.25000000	RI	DIVOR
	dated April 7, 1997				
	Antonio C. Onsurez, Trustee				
	P. O. Box 598				
	Loving, NM 88256				
101	Chase Oil Corporation	0.85000000	0.63750000	WI	MIN
	P. O. Box 1767				
	Artesia, NM 88211-1767				
110	Robert C. Chase	0.05000000	0.03750000	Wi	MIN
	P. O. Box 297				
	Artesia, NM 88211-0297				
185	Ventana Minerals LLC	0.05000000	0.03750000	WI	MIN
	P. O. Box 359		-		
	Artesia, NM 88211-0359				
195	DiaKan Minerals LLC	0.05000000	0.03750000	WI	MIN
	P. O. Box 693				
	Artesia, NM 88211			·	-
	TOTAL	1.00000000	1.00000000		
				1.	-15-2015 /dh





May 4, 2015

Antonio C. Onsurez, Trustee P.O. Box 598 Loving, NM 88256

VIA CERTIFIED MAIL 7014 1820 0001 6619 1944 CERTIFIED RETURN RECEIPT MAIL

Dear Sir:

This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to Down Hole Commingle production from the Bone Spring and Upper Wolfcamp in the Lost River Fee #1 located in Sec. 23 T23S R27E, 990 FSL & 990 FEL, Eddy County, New Mexico.

Should you have any objection, it must be filed in writing within twenty (20) days from the date of this notice. The Division Director may approve the DHC application if no objection has been made within the 20 days after the application has been received.

Sincerely,

Deana Weaver Production Clerk dweaver@mec.com

inaweauer

DW/

Enclosures

McMillan, Michael, EMNRD

From: Deana Weaver <dweaver@mec.com>
Sent: Monday, May 11, 2015 10:13 AM
To: McMillan, Michael, EMNRD

Cc: Jerry Sherrell

Subject: FW: Derrick Fee #1 Bone Spring/Wolfcamp Split Data

Attachments: Den Spoon Water (2).pdf

Michael,

Mack Energy has perforated and produced some of our wells in the Carlsbad area. It was discovered that the bottom section of perforations were actually in the Wolfcamp formation. After meeting with Paul Kautz and Randy Dade to discuss this issue, we agreed to test one of the wells(Derrick Fee #1) and use this data for all wells within this area.

The water analysis for the Den SWD #1 and Spoon SWD #1 is attached.

Isolated Wolfcamp perfs, Bone Spring Production Only

Date:	Oil	Gas	Water
3/22/2015	22	154	87
一:"是我们的一个"张军"。【第二人,不能是这个		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
3/23/2015	た。第 45 度 14.600 倍	., 152 %	12/10/10/10/10
/3/24/2015	25	152	117
3/25/2015	29 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	"''''	110
			119
3/26/2015		134	7.111
3/27/2015		\$140 × 5	8 1/1 4
(中) 2011年 11月 12日 12日			. • • • • • • • • • • • • • • • • • • •
3/28/2015	25 The state of th	152	85

Commingled Wolfcamp and Bone Spring

Date:	Oil	Gas	Water
4/30/2015	28.	- 153	146
5/1/2015	22	# 153	162
5/2/2015	25	161	236
E/2/2016	in E	101	150
3/3/2013		LDA	120

Commingled Bone Spring and Wolfcamp Avg:

Avg: 25 Oil, 157 MCF, 173 Water

Bone Spring Only Avg:

Avg: 24 Oil, 149 MCF, 112 Water

Avg: 96% Oil

Wolfcamp Only Avg:

Avg: 1 Oil, 8 MCF, 61 Water Avg: 4% Oil