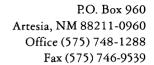
			- May
DATE IN	13.12	SUSPENSE	ENGINEER WUJ LOGGED IN 4,13, 12 TYGE DHO APP NO. 12/0452728
	CEIVE	00 C	Raisen State 2
2012	APH 13	A	DMINISTRATIVE APPLICATION CHECKLIST 30-025-3758/
		ST IS MAI	DATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
A p p lic a	нај	on-Stan C-Down [PC-Poo [\	ard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] lole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] l Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] FX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] ied Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE (OF APF [A]	LICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD 3-19-185-34E
		Check ([B]	ne Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PC PC OLS OLM
		[C]	njection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR
		[D]	Other: Specify
[21	NOTIF	ICATI [A]	N REQUIRED TO: - Check Those Which Apply, or □ Does Not Apply 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
[31			URATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE ION INDICATED ABOVE.
	al is <mark>acc</mark> ı	u rate ar	ON: I hereby certify that the information submitted with this application for administrative l complete to the best of my knowledge. I also understand that no action will be taken on this ired information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.								
Jerry W. Sherrell	Jeny W. Shevall	Production Clerk	4-12-2012					
Print or Type Name	Signature	Title	Date					
		jerrys@mec.com e-mail Address						





April 14, 2012

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

Re:

Down Hole Commingling, and measurement of

Hydrocarbon Production for:

Raven State #2

Section 9, T18S, R34E Lea 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 Wildcat; Queen, Vacuum; Grayburg-San Andres and Wildcat; Delaware production in the Raven State #2(State of NM Lease B-10784). Production of all pools will be measured at the TB located in the SW/4 NE/4, Sec. 9 T18S R34E. This lease has common interest in all pools. Mack Energy Corporation owns all interest in this lease. The oil purchaser has been notified of the intent to commingle. Allocation will be done using the subtraction method based on increased production from the Queen and Delaware formations. This well has consistent daily production from the Grayburg-San Andres formation.

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

Sincerely,

MACK ENERGY CORPORATION

leng W. Shevell

Jerry W. Sherrell Production Clerk jerrys@mec.com

JWS/dw Enclosures

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised June 10, 2003

District 11

1301 W. Grand Avenue, Artesia, NM 88210

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

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

E-MAIL ADDRESS jerrys@mec.com

Oil Conservation Division

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

11 ls RE

APPLICATION FOR DOWNHOLE COMMINGLING

APP	LICATI	ON LYP.
	X_Si	ngle We
_Establish Pr	e-Appro	ved Pool
EXIST	ING WE	LLBOR
<u>X</u>	_ Yes _	No
	_Establish Pr EXIST	Establish Pre-Appro EXISTING WE

Mack Energy Composition	ď	O. Box 960, Artesia, NM 88211	-452
Mack Energy Corporation Operator		iress	I-0700
Raven State	2 B-9-188		Lea
Lease		Section-Township-Range	County
OGRID No. 013837 Property Co	de 34657 API No. 30-025	5-37581 Lease Type:	_Federal X State _ Fee
DATA ELEMENT	UPPER ZONE 9	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Wildcat, Queen-	Vacuum; Grayburg-San Andres	Wildcat; Delaware
PoolCode		62180	
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	4326-4338	4929-5265	5604-5610
Method of Production (Flowing or Artificial Lift)	Artificial Lift	Artificial Lift	Artificial 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)			6K
Oil Gravity or Gas BTU (Degree API or Gas BTU)	N/A	36.2	N/A
Producing, Shut-In or New Zone	New Zone	Producing	New Zone
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history,	Date:	Date: 2/2012	Date:
applicant shall be required to attach production estimates and supporting data.)	Rates:	Rates: 115/154/305	Rates:
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or put production, supporting data or explanation will be required.)	oil Gas	Oil Gas Doronty	oil Gas
	ADDITIO	NAL DATA	
Are all working, royalty and overriding If not, have all working, royalty and ov	royalty interests identical in all co	mmingled zones? en notified by certified mail?	Yes No No No
Are all produced fluids from all commi		-	Yes X No
Will commingling decrease the value of	f production?		Yes No_X
If this well is on, or communitized with or the United States Bureau of Land M			Yes No
NMOCD Reference Case No. applicable	le to this well:		<u> </u>
Attachments: C- 1 02 for each zone to be commin Production curve for each zone for For zones with no production histo Data to support allocation method Notification list of working, royalty Any additional statements, data or	at least one year. (If not available, ry, estimated production rates and sor formula. y 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	he following additional information wi	.ll be required:
List of other orders approving downho List of all operators within the propose Proof that all operators within the prop Bottornhole pressure data.	d Pre-Approved Pools	• •	
I hereby certify that the information	•		ief
SIGNATURE Juny W.	Shewell TITLE Pr	oduction Clerk	DATE <u>4/02/2012</u>
TYPE OR PRINT NAME Jerry W		TELEPHONE NO. (575) 748-1288

MEMO

DATE:

April 12, 2012

TO:

NMOCD

FROM:

Travis K. Lanning

RE:

Raven State #2

NM State Lease B-10784 <u>T18S, R34E, NMPM</u> Section 09: NW/4NE/4, Lea County, New Mexico

Mack Energy Corporation respectfully requests approval to downhole commingle production from the Queen, Grayburg-San Andres and Delaware formations in our Raven State #2 well.

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. Lanning

Land Manager

MEMO

DATE:

April 12, 2012

TO:

NMOCD

FROM:

Travis K. Lanning

RE:

Raven State #2

NM State Lease B-10784

T18S, R34E, NMPM

Section 09: NW/4NE/4,

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Sincerely,

Mack Energy Corporation

Travis K. Lanning

Land Manager

State of New Mexico DISTRICT I

1625 N. FRENCH DR., HOHRS, NM 88240

Energy, Minerals and Natural Resources Department

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NW 88210

DISTRICT III 1000 Rio Brazos Rd., Axtec. NM 87410 OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Form C-102 Revised JUNE 10, 2003 Submit to Appropriate District Office

State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT IV 1220 S. ST. FRANCE DR., SANTA PR., NM 87503	WELL LOCATION AND	ACREAGE DEDICATION PLAT	□ AMENDED REPOR
30.025.37581	Pool Code	Wildcat: Queen	
Property Code 341057		operty Name EN STATE	Well Number 2
013837	_	erator Name GY CORPORATION	Elevation 4047'
	Cumf	non Innation	

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Rest/West line	County
В	9.	18-S	34-E		990	NORTH	1650	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	or Infill C	onsolidation	Code Or	der No.				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

1650'—	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. Jensey W. Senell Signature LMW. Shewell Printed Name Production Clerk Title 4-12-2012 Date SURVEYOR CERTIFICATION
GEODETIC COORDINATES NAD 27 NME Y=643489.0 N X=737178.8 E	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 supervison, and that the same is true and correct to the best of my belief.
LAT.=32'46'00.00" N LONG.=103'33'42.29" W	DECEMBER 3, 2005 Date Surveyed JR Signature & Sed of Professional Surveyor ME DOTE 11.1824 Certificate No. GARY RIBSON 12641

State of New Mexico

DISTRICT I 1625 N. PRENCH DR., HOBBS, NM 88240

DISTRICT II

Energy, Minerals and Natural Resources Department

Form C-102

Revised JUNE 10, 2003

Submit to Appropriate District Office State Lease - 4 Copies

ISOI W. GRAND AVENUE, ARTESIA, NM 68210 1220 SOUTH ST. FRANCIS DR.

LAT. =32.46'00.00" N

LONG. = 103'33'42.29" W

OIL CONSERVATION DIVISION

Pee Lease - 3 Copies DISTRICT III Santa Fe. New Mexico 87505 1000 Rio Brazos Rd., Axtec, NM 87410 DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT ☐ AMENDED REPORT 1220 S. ST. FRANCIS DR., SANTA PR., NM 87505 API Number Name D25.3 roperty Code Property Name Well Number RAVEN STATE 2 OGRID No. Operator Name Elevation MACK ENERGY CORPORATION 8 4047 Surface Location UL or lot No. Section Township Range Lot Idn Feet from the North/South line Bast/West line Feet from the County В 9 990 **EAST** 18-S 34-E NORTH 1650 LEA Bottom Hole Location If Different From Surface UL or lot No. Section Lot Idn Feet from the Township Range North/South line Feet from the East/West line County Dedicated Acres Joint or Infill Consolidation Code Order No. 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 **OPERATOR CERTIFICATION** I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. 1650 SURVEYOR CERTIFICATION GEODETIC COORDINATES I hereby certify that the well location shown on this plat was plotted from field notes of NAD 27 NME actual surveys made by me or under my supervison, and that the same is true and Y=643489.0 N correct to the best of my belief. X=737178:8 E

DECEMBER 3, 2005

Date Surveyed Minimum Professional Surveyor)

N MEAN

.05.11.1824

Certificate No. GARY BIDSON and the second

12641

JR

State of New Mexico

DISTRICT I 1625 N. FRENCH DR., HOURS, NN 88240

Energy, Minerals and Natural Resources Department

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 68210

DISTRICT III

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505 Form C-102
Revised JUNE 10, 2003
Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

1000 Rio Brazos E	sd., Artec, N	M 87410								
DISTRICT IV	DR., SANTA PR.	YM 87505	WELL LO	CATION	AND ACREA	GE DEDICATION	ON PLAT	□ AMENDI	ED REPOR	
30.02°	Number 5.37	581	J	Pool Code	Wi	Ideat: D	elaware			
3465	Code				Property Nam RAVEN STA	ie /			Well Number	
01383	°. 57			MACK I	Operator Name ENERGY COI			1	Elevation 4047'	
- -					Surface Loca	ation				
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Rast/West line	County	
В	9	18-S	34-E		990	NORTH	1650	EAST	LEA	
			Bottom	Hole Loc	cation If Diffe	erent From Sur	face			
UL or lot No.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County	
Dedicated Acre			onsolidation (der No.	JNTIL ALL INTER	DESTS HAVE RI	PEN CONSOLID	ATED	
	·					APPROVED BY			1100	
					,066		I hereb	OR CERTIFICAT ny certify the the in, in is true and comple	formation	

