	Order Number	API Number Operator		County						
	452	30-025-39751 Ovantum Re	sources Manage	nt Lea						
	Order Date	Well Name	Number	Location						
	4-6-11	Encore M State	3	UL Sec T (+Dir) R(+Dir)						
age and the second			Oil %	Gas %						
Pool 1	6660	Blinebry Oil + Gas	43%	<u>43.%</u> ** **						
Pool 2	19190	Drinkard	49%	49%						
Pool 3	62700	Wantz-Abo	8%	8%						
Pool 4										
	Comments: Posted in RBDMS 4-6-11 COH									

		- 704
DOWNHOLE COMMINGLE CALCULATIONS:		25-397
OPERATOR: Quantum Resources	Management	a) a
PROPERTY NAME: Encore M State	DH	C-HOB
WNULSTR: #3-C-19-225-37	E	
	ALLOWABLE AMO	UNT
SECTION I: Blinebry Dil + Gas	107 428	MCF
POOL NO. 2 Drinkard	142 852	MCF
POOL NO. 3 Wantz - Abo	187 1122	MCF
POOL NO. 4		MCF
POOL TO	OTALS 436 2402	
SECTION II:	<u>011</u>	<u> </u>
POOL NO. 1 Blinebry Dil + Gas	43%	4
POOL NO. 2 Drink ard	4390	4
POOL NO.3 Wantz- Abo	8% ×426 = 34,08	8
POOL NO. 4	< 347	
OIL	GAS	
SECTION III: 87 = 233.7	·	·
SECTION IV:	225	
43 4. × 2337 = 1004.9 <10	100 Z	
43 %×2337 = 1004,9 <1	003	

(f + f) $f = f$	· r
Submit 1 Copy To Appropriate District Office District I 1625 N. French Dr., Hobbs, NM 88240 District III 1301 W. Grand Ave., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	Form C-103 October 13, 2009 WELL API NO. 30-025-39751 5. Indicate Type of Lease STATE FEE 6. State Oil & Gas Lease No.
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	7. Lease Name or Unit Agreement Name Encore M State 8. Well Number 003
1. Type of Well: Oil Well ☐ Gas Well ☒ Other 2. Name of Operator Quantum Resources Management, LLC 3. Address of Operator 1401 McKinney St., Ste 2400, Houston, TX 77010	9. OGRID Number 243874 10. Pool name or Wildcat: Blinebry Oil & Gas (Oil); Drinkard; Wantz Abo
4. Well Location Unit LetterC:660feet from theNorth line and Section 19 Township 22S Range 37E 11. Elevation (Show whether DR, RKB, RT, GR, etc. 3421' GL	NMPM County Lea
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WOR	BSEQUENT REPORT OF: RK
OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OTHER: OF starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Coproposed completion or recompletion.	
Per pre-approved pools & area R-11363.	
See Attached	
Spud Date: Rig Release Date:	HOB- 452
I hereby certify that the information above is true and complete to the best of my knowledge	ge and belief.
SIGNATURE	
For State Use Only	qracq.com PHONE:(713) 634-4612_
APPROVED BY: TITLE Conditions of Approval (if any):	DATE APR 0 6 2011

State of New Mexico RECEIVE erry, 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

NOV 15 2010 HOBBSOCD

Oil Conservation Division

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

District IV

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

APPLICATION FOR DOWNHOLE COMMINGLING

_	<u>X</u>	Single	Well
Establish Pro	e-Ap	proved:	Pools
EXISTI	NG	WELLB	ORE

_ Yes _

_No

Quantum Resources Management Operator	t, LLC		1 McKinney S dress	t., Ste 2400, Houst	ton, TX 77010	
Encore M State	3 Well No.	C-19-22	S-37E Section-Township-	Danas		Lea County
æase OGRID No. <u>243874</u>		PI No. <u>30-025-</u>		ase Type:Fe		•
DATA ELEMENT	UPPER	ZONE	INTERME	EDIATE ZONE	LOWE	ER ZONE
Pool Name	Blinebry Oil &	& Gas (Oil)	Di	rinkard	Wai	ntz-Abo
Pool Code	0666	60	-	19190	6	2700
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	5,518 -	5,668	6,35	55 – 6,746	6,828	8 – 6,846
Method of Production (Flowing or Artificial Lift)	Artificia	al Lift	Arti	ficial Lift	Artif	icial 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)	2200	osig	25	2520 psig		40 psig
Oil Gravity or Gas BTU (Degree API or Gas BTU)	Oil – 38 Gas – 13.4			– 38 API 13.42 BTU		- 38 API 13.42 BTU
Producing, Shut-In or New Zone	New Z	Zone	Ne	ew Zone	Ne	w Zone
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Estimated rates based on net pay: 31.82 MCFD 20.64 BOPD 83.85 BWPD		Estimated rates based on net pay: 36.26 MCFD 23.52 BOPD 95.55 BWPD		Estimated rates based on net pay 5,92 MCFD 3.84 BOPD 15.6 BWPD	
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil 43%	Gas 43%	Oil 49%	Gas 49%	Oil 8%	Gas 8%
		ADDITIO	NAL DATA			
Are all working, royalty and overriding f not, have all working, royalty and over						_X No No
Are all produced fluids from all commit		tible with each	other?			<u>X</u> No
Vill commingling decrease the value of	•	uda baa aithau t	ha Cammiasianar	of Dublic Lands	Yes_	No <u>Σ</u>
f this well is on, or communitized with or the United States Bureau of Land Ma	anagement been not	tified in writing	of this application		Yes_	_X No
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 o Notification list of working, royalty Any additional statements, data or of	led showing its spa at least one year. (l y, estimated produc or formula. and overriding roy	acing unit and action of a control of a cont	creage dedication attach explanatic supporting data. r uncommon inte	on.) New completion		
		PRE-APPRO	OVED POOLS			
If application is	to establish Pre-Ap	proved Pools, th	he following addi	tional 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.	l Pre-Approved Poo	ols				
hereby certify that the information	above is true and	d complete to	the best of my k	knowledge and beli	ef.	
SIGNATURE	duz	TITLE Re	gulatory Anal	yst D	ATE 11/9/10	

TITLE Regulatory Analyst

TELEPHONE NO. (713) 634-4612

DATE 11/9/10

E-MAIL ADDRESS <u>erodriguez@gracq.com</u>

TYPE OR PRINT NAME Erick A. Rodriguez

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

1301 W. Grand Avenue, Artesia, NM 88210 District III

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Form C-102 Revised July 16, 2010 Submit one copy to appropriate District Office

000 Rio Brazos R	d., Aztec, NN	A 87410		O D DECOMMON					☐ AMENDED REPORT		
District IV			Santa Fe, NM 87505								
220 S. St. Francis	Dr., Santa I	e, NM 87505									
		W	ELL LO	CATIO	N AND ACR	EAGE DEDIC	CATION PLA	T			
1,	API Number	,		² Pool Code		*· *	³ Pool Na	me			
3	0-025-39751			06660			Blinebry Oil and	Gas (Oil)			
⁴ Property	Code	,		· · · · · · · · · · · · · · · · · · ·	5 Property	Name			⁶ Well Number		
37138					Encore M	State			003		
7OGRID	No.				Operator	Name			⁹ Elevation		
243874	ļ			Qu	Quantum Resources Management, LLC				3421		
	- · · · · · · · · · · · · · · · · · · ·				¹⁰ Surface	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West li	ine County		
С	19	22S	37E		660	N	2140	w	Lea		
1.00.1	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	11 Bo	ottom Ho	le Location I	f Different From	m Surface				
UL or lot no.	Section	Township	Kange	Lot idn	Feet from the	North/South line	Feet from the	East/West l	ine County		
12 Dedicated Acre	s 13 Joint o	r Infill 14 C	onsolidation	Code 15 Or	der No.						
40.00					DH	C- HOB	- 452				

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.

FT				
16				17 OPERATOR CERTIFICATION
				I hereby certify that the information contained herein is true and complete
			İ	to the best of my knowledge and belief, and that this organization either
				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
	The second secon			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.
				4/6/10
				Signature
				Erick A. Rodriguez
				Printed Name
				crodriguez@gracg.com
				E-mail Address
<u> </u>				
				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
				sume is true and correct to the best of my belief.
				4/13/2010
ļ				Date of Survey
				Signature and Seal of Professional Surveyor.
				Gary Jones
				-077
1			Ì	7977
				Certificate Number
	1	L.,	l	

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

District II 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

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

> 1220 South St. Francis Dr. Santa Fe, NM 87505

State of New Mexico

Form C-102 Revised July 16, 2010 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number ¹ Pool C					Code 3 Pool Name			me		
30-025-39751 1919							Drinkar	d		
⁴ Property	Code				5 Property	Name			⁶ Well Number	
37138	1				Encore M	State			003	
OGRID	No.			8 Operator Name					9 Elevation	
243874				Qı	Quantum Resources Management, LLC				3421	
	·				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	
C	19	22S	37E		660	N	2140	w	Lea	
		l	11 Bo	ottom Ho	le Location I	f Different From	m Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Dedicated Acre	i 13 Joint or	r Infill 14 C	onsolidation	Code 15 Or	der No.					
40.00					DH	HO-HOR	- 452			

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1		to the best of my knowledge and belief, and that this organization either
ľ		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
l l		interest, or to a voluntary pooling agreement or a compulsory pooling
		order heretofore entered by the division.
		Signature Date
		Erick A, Rodriguez Printed Name
		erodniguez@qracq.com 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
		11
		made by me or under my supervision, and that the
		same is true and correct to the best of my belief.
		4/13/2010
ļ		Date of Survey
· ·		Signature and Seal of Professional Surveyor:
		Gary Jones
		7977
		Certificate Number
<u> </u>	<u> </u>	<u>IL</u>

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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 July 16, 2010 Submit one copy to appropriate District Office

☐ AMENDED REPORT

1,	API Number	r		² Pool Code			³ Pool Na	me	
3	0-025-39751			62700			Wantz A	bo	
⁴ Property (Code		- 1 1 1		⁵ Property	Name		6,	Well Number
37138					Encore M	State			003
OGRID :	No.				8 Operator	Name			⁹ Elevation
243874				Qı	antum Resources M	anagement, LLC		İ	3421
					¹⁰ Surface	Location		·-	
L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	19	228	37E		660	N	2140	w	Lea
		l	n Bo	ottom Ho	le Location I	f Different From	m Surface		L
L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
edicated Acres	i ³ Joint o	r Infill	L Consolidation	Code 15 Or	der No.		<u></u>		
40.00						SHC- H	DB-45	S2	

16	[1] (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		17 OPERATOR CERTIFICATION
			I hereby certify that the information contained herein is true and complete
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		,	4/6/10
			Signature
			Erick A. Rodriguez Printed Name
			erodniguez@graeq.com
			E-mail Address
		 	18SURVEYOR CERTIFICATION
			I hereby certify that the well location shown on this
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			same is true and correct to the best of my belief.
			4/13/2010
			Date of Survey
			Signature and Seal of Professional Surveyor:
			Gary Jones
			7977
			Certificate Number
Million Co.			