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 Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico **Energy, Minerals and Natural Resources** Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Form C-101 August 1, 2011

Permit 177865

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZON	RMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE
---	--

ALL DOCUMENT ON ENWIT TO BRIEF, NE-ENTER, DEEL EN, LEOSBACK, OR ADD A ZONE								
Operator Name and Address QUANTUM RESOURCES MANAGEMENT, LLC								
1401 McKinney St Houston, TX 77010								
Property Name ENCORE M STATE	6. Well No. 011							
	5. Property Name							

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	20	22S	37E		978	S	641	W	Lea

8. Proposed Bottom Hole Location

		Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M 20	228	37E	М	978	S	641	W	Lea

9. Pool Information

BLINEBRY OIL AND GAS (OIL)	6660
DRINKARD	19190
WANTZ;ABO	62700

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lesse Type	15. Ground Level Elevation
New Well	OIL		State	3387
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
Y	7000	Abo		1/6/2014
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☑ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1175	1050	0
Int1	11	8.625	32	4000	960	0
Prod	7.875	5.5	20	7000	650	3750

Casing/Cement Program: Additional Comments

22 Droposed Blowout Droyention Drogram

Туре	Working Pressure	Test Pressure	Manufacturer
Annular	3000	1500	
Double Ram	3000	2500	

knowledge and	belief. I have complied with 19.15.14.9 (A)	e true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONS	ERVATION DIVISION
Printed Name:	Electronically filed by Yolanda P	erez	Approved By:	Paul Kautz	
Title:	Regulatory Supervisor	Title:	Geologist		
Email Address:	yperez@qracq.com		Approved Date:	12/3/2013	Expiration Date: 12/3/2015
Date:	12/2/2013	Phone: 713-634-4696	Conditions of App	oroval Attached	

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

¹²Dedicated Acres

40

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

¹³Joint or Infill

14Consolidation Code

15Order No.

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 June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025-	API Numbe	er		² Poo 666	1 Code 30	Blinebry Oil & Gas (Oil)			
¹ Proper	ty Code		•	⁶ Well Number					
307932					Encore M	State			11
⁷ OGRI	D No.			-	8Oper	ator Name			g Elevation
243874		Qua	antum Re	ntum Resources Management, LLC					
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
M	20	22 S	37 E		978	South	641	West	Lea
¹¹ Bottom Hole Location If Different From Surface									
L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNITL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	 I I NO TOD DI IIID DI	
	16	¹⁷ OPERATOR CERTIFICATION
		I hereby certify that the information contained herein is
		true and complete to the best of my knowledge and
		belief.
		Gulsta A. Dah
		Celeste G. Dale
		Printed Name
		Sr. Regulatory Analyst
	v	Title and E-mail Address
		12/02/13
		Date
		¹⁸ SURVEYOR CERTIFICATION
M STATE 11		I hereby certify that the well location shown on this plat
Elev. 3387' NAD 83 NM East		was plotted from field notes of actual surveys made by
N= 501223		me or under my supervision, and that the same is true
₽ E= 893852		and correct to the best of my belief.
NAD 83 Lot. = 32° 22′ 21.94′		11 15 2017
Long.= 103' 11' 29.53'		11-15-2013 Date of Survey Signature and Seal of Professional Survey
		11-15-2013 Date of Survey Signature and Seal of Professional Survey
=		(3) (8) (8)
641'		$\left(\begin{array}{c} \frac{RFG}{G} \left(\begin{array}{c} 10324 \end{array}\right) \begin{array}{c} \frac{RFG}{G} \end{array}\right)$
= 78,		Milas
[[
		10324 Certificate Number
<u> </u>		

4 79	Milag	CULT	C	Ennice	Mary Marian

177.1	3.7	A 0.400
File	NΩ	A-8432

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

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 June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number ²Pool Code 19190 30-025-Drinkard Property Code ⁵Property Name ⁶Well Number 307932 Encore M State 11 ⁷OGRID No. ⁸Operator Name ⁹Elevation 3387 Quantum Resources Management, LLC 243874 ¹⁰Surface Location East/West line County Lot Idn Feet from the North/South line UL or lot no. Section Township Range Feet from the 20 22 S 37 E 978 South 641 West Lea M ¹¹Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot ldn Feet from the North/South line Feet from the East/West line County Range ¹²Dedicated Acres 13 Joint or Infill 14Consolidation Code ¹⁵Order No. 40

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNITL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

		16	170PERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and
			Signature St. Lale
			Celeste G. Dale Printed Name
			Sr. Regulatory Analyst Title and E-mail Address
			12/02/13 Date
sose Line	M STATE 11 Elev. 3387' NAD 83 NM East		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 same is true
342' To Lease Line	N= 501223 E= 893852 NAD 83 Lot. = 32' 22' 21.94"		and correct to the best of my belief.
= 641'	Long.= 103' 11' 29.53" =		Date of Survey Signature and Seal of Professional Surveyor
. 826	-		Michael Style
			10324 Certificate Number

	ew M	lexico.
--	------	---------

TO: 1 - N	Τ_	A-8432
File N	NO.	A-0432

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

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Form C-102

Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

- 3 Copies Fee Lease

T

District_IV	, Mai, Macco,		01110				Santa	Fe,	NM 87505				ree Lease - 3 Copi
1220 S. St. Fran	ncis Dr., Sa	nta F	e, NM 87		τ Ο (~ A 1701.C	NAI AAID	\ A.C	יחפאמפי ה	מיטוט אישו	ON	DI AT	AMENDED REPOR
	API Numb	er		WELL	LOC	Pool Co		AC	REAGE D	EDICATI		PLAI Pool Name	
30-025-					6270					W	/antz;	Abo	
⁴ Proper 307932	ty Code						Encore	Property M S1					*Well Number
70GRI	D No.						8(Operator	Name				9 Elevation
243874			Qua	antum R	esour	ces N	Manageme						3387'
							¹⁰ Surfa		ocation				
UL or lot no.	Section		wnship	Range	Lot 1	ldn	Feet from the	, 1	North/South line	Feet from	the	East/West line	County
M	20	2	2 S	37 E			978		South	641		West	Lea
				11Bot	tom	Hole	Location	ı If	Different F	rom Sur	face		
UL or lot no.	Section	То	wnship	Range	Lot 1		Feet from the		North/South line	Feet from		East/West line	County
¹² Dedicated Acre 40	s ¹³ Joint o	r Infi]] 14	Consolidation	Code	15Order	No.						
NO ALLOWA	ABLE WI		BE AS						PPROVED B		VISIOI 17 / her true betie) Signat Cele Printe Sr. Title 4	NOPERATOR reby certify that the is and complete to the b	CERTIFICATION information contained herein is est of my knowledge and
978'342' To Lease Line		6 N E	N= 5012 E= 8938 NAD 83 .at. =	87' NM East 223 352	.94" 9.53"						me or and c	objectify that the underlief from field note value my supervision for the best of note to the best of note to the best of note from the first survey the and Seal of From REGIS	CERTIFICATION tell location shown on this plat to of actual surveys made by m, and that the same is true my belief. 10324

4.7	Miles	SW	of_	Eunice	New	Mexico

Certificate Number

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-8161 Fax:(575) 393-0720

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-8178 Fax:(505) 334-8170 District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico **Energy, Minerals and Natural Resources** Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Permit 177865

Form APD Comments

PERMIT COMMENTS

Operator Name and Address:	API Number:
QUANTUM RESOURCES MANAGEMENT, LLC [243874]	30-025-41529
1401 McKinney St	Well:
Houston, TX 77010	ENCORE M STATE #011
·	

Created By	Comment	Comment Date

Form APD Conditions

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-8161 Fax:(575) 393-0720 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico **Energy, Minerals and Natural Resources** Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Permit 177865

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
QUANTUM RESOURCES MANAGEMENT, LLC [243874]	30-025-41529
1401 McKinney St	Well:
Houston, TX 77010	ENCORE M STATE #011

OCD Reviewer	Condition
DMULL	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines
DMULL	Will require the form C-103 per R-11363 pre approved pools & area for Downhole Commingling before multiple zone can be produced by commingling in the wellbore accordance with the procedure set forth in Rule 19.15.12.11.
pkautz	SURFACE & INTERNEMIATE CASING - Cement must circulate to surface
pkautz	PRODUCTION CASING - Cement must tie back into intermediate casing
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water