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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 274726

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

1. Operator Name and Address 2. OGRID Number											
BREITBURN OPERATING LP 370080											
1111 Bagby St. Suite 1600 3. API Number											
Hous	Houston, Tx 77002, TX 77002 30-025-46555										
4. Property Cod	е	6. Well N	6. Well No.								
3168	316831 ENCORE M 21 FEE								003		
	7. Surface Location										
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County		
.1	21	228	37F	.1	1572	S	1956	l F	Lea		

8. Proposed Bottom Hole Location											
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County		
J	21	22S	37E	J	1572	S	1956	E	Lea		

## 9. Pool Information

WANTZ;ABO	62700
DRINKARD	19190
TUBB OIL AND GAS (OIL)	60240
BLINEBRY OIL AND GAS (OIL)	6660

### **Additional Well Information**

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 3353
16. Multiple Y	17. Proposed Depth 7600	18. Formation Abo	19. Contractor	20. Spud Date 11/19/2019
Depth to Ground water		Distance from nearest fresh water	r 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	1180	1085	0
Int1	12.25	9.625	40	4500	1300	0
Prod	8.75	5.5	0	7600	1300	3500

## Casing/Cement Program: Additional Comments

### 22 Proposed Blowout Provention Program

22: i roposca Biowoat i revention i rogiani										
Туре	Working Pressure	Test Pressure	Manufacturer							
Annular	5000	2500	Townsend							
Double Ram	5000	3500	Townsend							

knowledge and be	elief.	true and complete to the best of my		OIL CONSERVATION	ON DIVISION	
Printed Name:	Electronically filed by Charlotte Na	ash	Approved By:	Paul F Kautz		
Title:	Regulatory		Title:	Geologist		
Email Address:	charlotte.nash@mavresources.co	om	Approved Date:	12/4/2019	Expiration Date: 12/4/2021	
Date:	11/15/2019	Phone: 713-632-8730	Conditions of Approval Attached			

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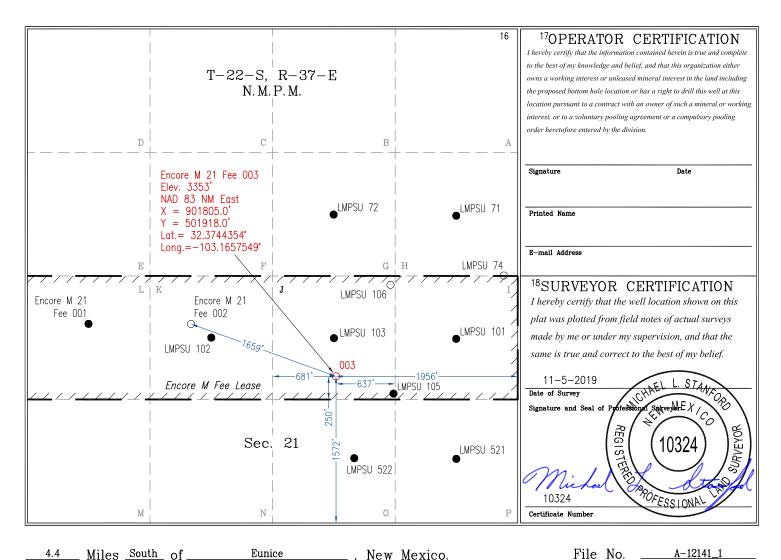
# State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT <sup>1</sup>API Number <sup>2</sup>Pool Code <sup>4</sup>Property Code <sup>5</sup>Property Name Well Number Encore M 21 Fee 003 <sup>7</sup>OGRID No. <sup>8</sup>Operator Name 9Elevation Breitburn Operating LP 3353 <sup>10</sup>Surface Location Township UL or lot no. Lot Idn Feet from the North/South line Feet from the East/West line Section Range 21 22 S 37 E 1572 South 1956 East Lea <sup>11</sup>Bottom Hole Location If Different From Surface UL or lot no. Lot Idn Feet from the North/South line Feet from the East/West line Township Range County <sup>15</sup>Order No. <sup>12</sup>Dedicated Acres 13 Joint or Infill <sup>14</sup>Consolidation Code

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.



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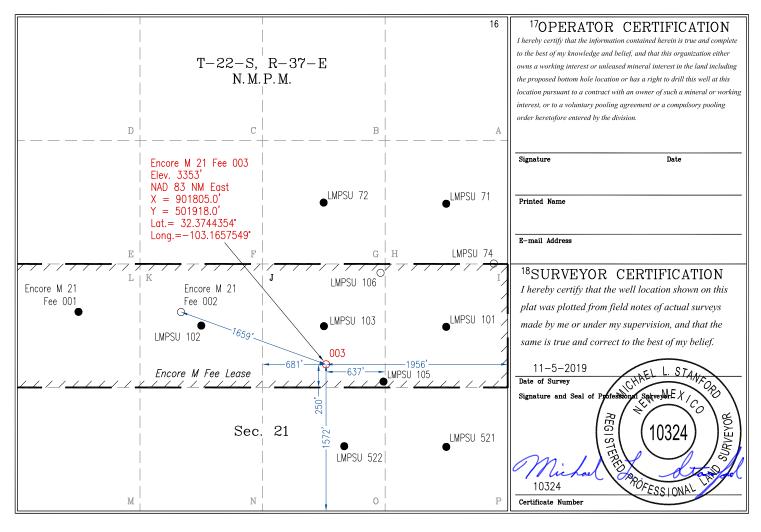
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Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

			WELL	LOCA	ΓΙΟΝ AND	ACREAGE D	EDICATION	PLAT	
	<sup>1</sup> API Numbe	er		<sup>2</sup> Pool Code <sup>3</sup> Pool Name					
<sup>4</sup> Propert	y Code			01 🖽 -		operty Name			<sup>6</sup> Well Number
		E.	ncore M	ZI Fee					003
<sup>7</sup> OGRII	) No.	В	reitburn	0perati		erator Name			<sup>9</sup> Elevation 3353'
	<sup>10</sup> Surface Location								
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	21	22 S	37 E		1572'	South	1956'	East	Lea
	<sup>11</sup> 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
12 Dedicated Acres	s 13 Joint of	r Infill 14	<sup>4</sup> Consolidation (	Jode 15C	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.



4.4 Miles South of Eunice . New Mexico.

File No. \_\_\_\_\_A-12141\_1

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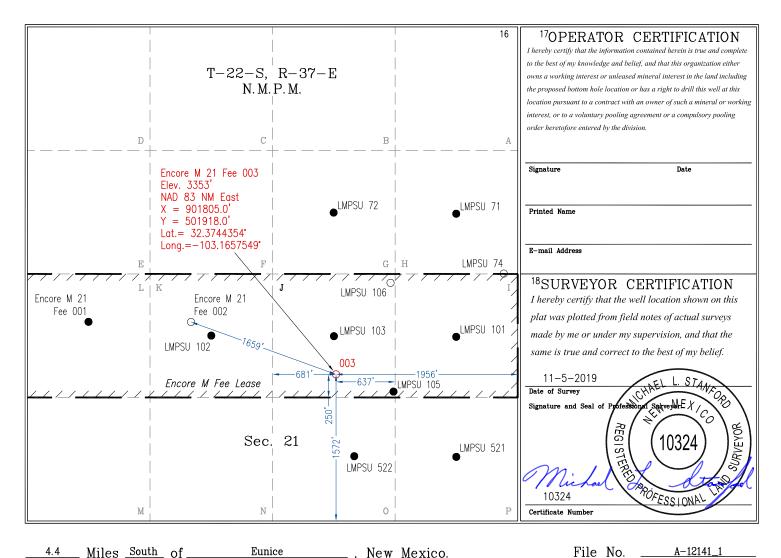
# State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

			W.	ELL	LOC.	ATION AND	ACREAGE D	EDICATION	PLAT		
<sup>1</sup> API Number					2	Pool Code	<sup>3</sup> Pool Name				
<sup>4</sup> Propert	y Code		Encor	e M 2	21 Fe		operty Name			6Well Number 003	
OGRID No.  Breitburn Operating LP							<sup>9</sup> Elevation 3353'				
	<sup>10</sup> Surface Location										
UL or lot no.	Section	Townsh	ip Ra	inge	Lot Id	r Feet from the	North/South line	Feet from the	East/West line	County	
J	21	22 5	37	* E		1572'	South	1956'	East	Lea	
			1	<sup>1</sup> Botto	om F	lole Location	If Different F	rom Surface	<b>;</b>		
UL or lot no.	Section	Townsh	ip Ra	inge	Lot Id	Feet from the	North/South line	Feet from the	East/West line	County	
<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint o	or Infill	<sup>14</sup> Consoli	dation Co	ode	<sup>15</sup> Order No.					

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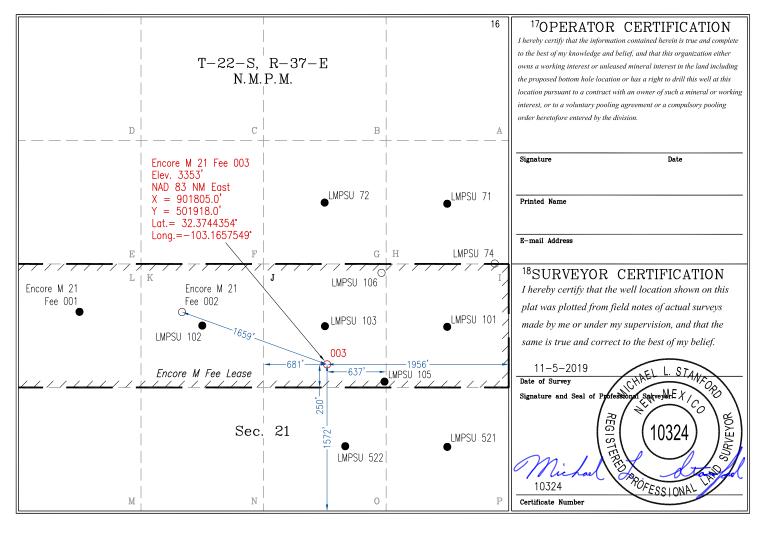
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UL or lot no.	Section	Townsh	ip Ra	inge	Lot Id	Feet from the	North/South line	Feet from the	East/West line	County	
<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint o	or Infill	<sup>14</sup> Consoli	dation Co	ode	<sup>15</sup> Order No.					

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4.4 Miles South of Eunice . New Mexico.

File No. \_\_\_\_\_A-12141\_1

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

		GAS	CAPTURE PLA	N		
Date: <u>12/4/2019</u>						
☑ Original	Operator & OGRID No	o.: [370080] BREIT	TBURN OPERATING LE	<b>o</b>		
Amended - Reason for Amendment:						
This Gas Capture Plan outlines act Note: Form C-129 must be submitt Well(s)/Production Facility – Name The well(s) that will be located at the	ed and approved prior to exc	eeding 60 days allov	wed by Rule (Subsection	·		w drill, recomplete to new zone, re-frac) activity.
Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
ENCORE M 21 FEE #003	30-025-46555	J-21-22S-37E	1572S 1956E	218	None	Gas to be captured and sold
Gathering System and Pipeline Not Well(s) will be connected to a prod TARGA MIDSTREAM SERVICES L New Mexico. It will require 0' TARGA MIDSTREAM SERVICES L	uction facility after flowback of LC and will be connected of pipeline to connect the	ed to TARGA MIDST facility to Low Present and estimated first	REAM SERVICES LLC sure gathering system production date for we	Low Pres  BREITBURN (	sure gatherir OPERATING L duled to be dri	lled in the foreseeable future. In addition,
BREITBURN OPERATING LP these wells will be processed at actual flow of the gas will be based		ES LLC Proces	sing Plant located in S	ec. <u>21,</u> Twn. <u>2</u>	•	drilling and completion schedules. Gas from 7E, Lea County, New Mexico. The

will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on TARGA MIDSTREAM SERVICES LLC system at that time. Based on current information, it is BREITBURN OPERATING LP's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

### Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
  - o Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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

Form APD Comments

Permit 274726

## PERMIT COMMENTS

Operator Name and Address:	API Number:
BREITBURN OPERATING LP [370080]	30-025-46555
1111 Bagby St. Suite 1600	Well:
Houston, Tx 77002, TX 77002	ENCORE M 21 FEE #003

Created By	Comment	Comment Date
cnash	Spud date for well is planned for 12-15-19.	11/15/2019
cnash	Spud date for well is planned for 12-15-19.	11/15/2019

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

Form APD Conditions

Permit 274726

## PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
BREITBURN OPERATING LP [370080]	30-025-46555
1111 Bagby St. Suite 1600	Well:
Houston, Tx 77002, TX 77002	ENCORE M 21 FEE #003

OCD	Condition	
Reviewer		
pkautz	Will require a deviation survey	
pkautz	Will require a administrative order for non-standard location prior to placing the well on production.	
pkautz	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface 2) PRODUCTION CASING - Cement must tie back into intermediate casing	
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement	
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water	
pkautz	1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104	
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD. If an APD expires and if site construction has occurred, site remediation is required.	
pkautz	Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool at 5753703186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.	

## **Proposed WBD**

**Breitburn Operating. LP** Encore M 21 Fee 003

Spud Date: 12/19/2019 Rig Release: 01/10/2020

GL: 3,353' KB: 3,368' Sec. 21, Twp. 22S, Rge. 37E Lea County, NM. **Vertical Well** 

## **CONDUCTOR PIPE:**

24" Hole

20" landed at +/- 80' below GL

TOC: Surface

## **SURFACE**

17-<sup>1</sup>/<sub>2</sub>" Hole: +/- 1,180' MD/TVD 13-<sup>3</sup>/<sub>8</sub>", 54.5 ppf, J-55, BT&C: +/- 1,180' MD/TVD Surface

 $9^{-5}/8$ " DV Tool:

+/- 3,000' MD/TVD

## INTERMEDIATE

12-<sup>1</sup>/<sub>4</sub>" Hole: +/- 4,500' MD/TVD 9-<sup>5</sup>/<sub>8</sub>", 40 ppf, J-55, LTC: +/- 4,500' MD/TVD

TOC:

Surface

5-1/2" DV Tool:

+/- 6,200' MD/TVD

## **PRODUCTION**

8-3/4" Hole: +/- 7,600' MD/TVD 5-<sup>1</sup>/<sub>2</sub>", 23 ppf, L-80, LTC: +/- 7,600' MD/TVD

ETOC:

+/- 3,500'

PBTD: +/- 7,520' MD/TVD TD: +/- 7,600' MD/TVD