

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☒ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address LEGACY RESERVES OPERATING LP PO BOX 10848 MIDLAND, TX 79702		² OGRID Number 240974
		³ Reason for Filing Code/ Effective Date NW/03-04-2019
⁴ API Number 30 - 025-45211	⁵ Pool Name WC-025 G-08 S203435D; WC	⁶ Pool Code 98247
⁷ Property Code 302802	⁸ Property Name LEA UNIT	⁹ Well Number 100H

II. 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
B	11	20S	34E		140	N	1790	E	LEA

¹¹ Bottom Hole Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	14	20S	34E		2534	N	2265	E	LEA

¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
34053	PLAINS MARKETING, L.P. 500 DALLAS, STE. 700, HOUSTON, TX	OIL
24650	TARGA MIDSTREAM SERVICES LLC 1000 LOUISIANA, STE. 4700, HOUSTON, TX 77002	GAS

IV. Well Completion Data

²¹ Spud Date 09/30/2018	²² Ready Date 03/04/2019	²³ TD 18,405'	²⁴ PBSD 18,365'	²⁵ Perforations 13,704'-18,350'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13 3/8"	1,905'	1500 sx		
12 1/4"	9 5/8"	5,600'	3450 sx		
8 1/2"	7"	10,503'	1250 sx		
6"	4 1/2"	10,314'-18,397'	715 sx		

V. Well Test Data

³¹ Date New Oil 03/16/2019	³² Gas Delivery Date 03/07/2019	³³ Test Date 03/17/2019	³⁴ Test Length 24 HRS	³⁵ Tbg. Pressure 150	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 380	³⁹ Water 1153	⁴⁰ Gas 24		⁴¹ Test Method Pumping

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Laura Pina

Printed name:

LAURA PINA

Title:

COMPLIANCE COORDINATOR

E-mail Address:

lpina@legacylp.com

Date:

05/22/2019

Phone:

432-689-5200

OIL CONSERVATION DIVISION

Approved by:

Karen Sharp

Title:

Staff Mgr

Approval Date:

5-29-19

Documents pending BLM approvals will subsequently be reviewed and scanned

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

COPY

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM06531A1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator
LEGACY RESERVES OPERATING LE-Mail: jsaenz@legacyp.com

Contact: JOHN SAENZ

8. Lease Name and Well No.
LEA UNIT 100H3. Address 303 W WALL ST STE 1800
MIDLAND, TX 797013a. Phone No. (include area code)
Ph: 432-689-5200

9. APT Well No. 30-025-45211

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

Sec 11 T20S R34E Mer
At surface NWNE 140FNL 1790FEL10. Field and Pool, or Exploratory
LEA; UPPER WCAt top prod interval reported below
Sec 14 T20S R34E Mer
At total depth SWNE 2534FNL 2265FEL11. Sec., T., R., M., or Block and Survey
or Area Sec 11 T20S R34E Mer12. County or Parish
LEA13. State
NM14. Date Spudded
09/30/201815. Date T.D. Reached
11/07/201816. Date Completed
☐ D & A ☒ Ready to Prod.
03/04/201917. Elevations (DF, KB, RT, GL)*
3665 GL18. Total Depth: MD 18405
TVD 1119919. Plug Back T.D.: MD 18365
TVD 1119920. Depth Bridge Plug Set: MD
TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
GR/CCL22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J-55	54.5	0	1905		1500		0	
12.250	9.625 HCL80	47.0	0	5600		3450		0	
8.500	7.000 HCP110	32.0	0	10503		1250		0	
6.000	4.500 HCP110	13.5	10314	18397		715			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	10277							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	13704	18350	13704 TO 18350		780	PRODUCING
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
13704 TO 18350	TREAT WELL W/1,923 BBLs ACID, 6,032,774# SAND & 188,292 BBLs WTR

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
03/16/2019	03/17/2019	24	→	380.0	24.0	1153.0	42.0	0.84	ELECTRIC PUMP SUB-SURFACE
Choke Size	Tbg. Press. Flwg. 150 SI	Csg. Press.	24 Hr. Rate →	Oil BBL 380	Gas MCF 24	Water BBL 1153	Gas:Oil Ratio 63	Well Status POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity		
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL			

Documents pending BLM approvals will
subsequently be reviewed and scanned

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #466385 VERIFIED BY THE BLM WELL INFOR

** OPERATOR-SUBMITTED ** OPERATOR-SUL ** OPERATOR-SUBMITTED **

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
BONE SPRING 1ST	9489	10136		BELL CANYON	5567
BONE SPRING 2ND	10136	10868		BRUSHY CANYON	6569
BONE SPRING 3RD	10868	10996		BONE SPRING	8320
BONE SPRING	11246	17909		BONE SPRING 1ST	9489
				BONE SPRING 2ND	10136
				BONE SPRING 3RD	10868

32. Additional remarks (include plugging procedure):
Directional survey attached. Log will be mailed to BLM Carlsbad Office.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #466385 Verified by the BLM Well Information System.
For LEGACY RESERVES OPERATING LP, sent to the Hobbs

Name (please print) JOHN SAENZ

Title OPERATIONS ENGINEER

Signature (Electronic Submission)

Date 05/22/2019

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

COPY

SUNDRY NOTICES AND REPORTS ON WELLS
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMNM06531A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
LEA UNIT 100H

2. Name of Operator

LEGACY RESERVES OPERATING LP

Contact: LAURA PINA

E-Mail: lpina@legacyp.com

9. API Well No.

30-025-45211

3a. Address

303 W WALL ST STE 1800
MIDLAND, TX 79701

3b. Phone No. (include area code)

Ph: 432-689-5200

10. Field and Pool or Exploratory Area
LEA; UPPER WC

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 11 T20S R34E NWNE 140FNL 1790FEL

11. County or Parish, State

LEA CO COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

01/05/2019 Ran Gamma Ray/CCL log

01/27/2019 to 02/21/2019 Perf Wolfcamp fr/13,704'-18,350' MD w/780 shots. Treated well w/1,923 bbls
10% acid, 6,032,774# sand and 188,292 BW

02/27/2019 to 02/28/2019 Drilled out plugs

03/04/2019 Began flowback operations

03/16/2019 Date of first production

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #465428 verified by the BLM Well Information System
For LEGACY RESERVES OPERATING LP, sent to the Hobbs

Name (Printed/Typed) LAURA PINA

Title COMPLIANCE COORDINATOR

Signature (Electronic Submission)

Date 05/14/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Documents pending BLM approvals will
subsequently be reviewed and scanned

Date _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person to
States any false, fictitious or fraudulent statements or representations as to any matter within it.

Make to any department or agency of the United States

(Instructions on page 2)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

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

Submit Original
to Appropriate
District Office

GAS CAPTURE PLAN

Date: 05/22/2019

☐ Original Operator & OGRID No.: 240974
☒ Amended - Reason for Amendment: Well has been drilled & completion operations completed.

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
LEA UNIT 100H	30-025-45211	B-11-T20S-R34E	140FNL & 1790FEL	N/A	SOLD	GC 01/01/16

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to Targa Midstream and will be connected to Targa Midstream low/high pressure gathering system located in Lea County, New Mexico. It will require 100 ' of pipeline to connect the facility to low/high pressure gathering system. Legacy Reserves provides (periodically) to Targa Midstream a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Legacy Reserves and Targa Midstream have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Monument Processing Plant located in Sec. 36, Twn. 19S, Rng. 36E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content 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 system at that time. Based on current information, it is Legacy Reserves 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
 - 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