

U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

<b>Well Name:</b> GRACE MITCHELL B	<b>Well Location:</b> T17S / R32E / SEC 5 / SENE /	<b>County or Parish/State:</b> LEA / NM
<b>Well Number:</b> 05	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMLC029406B	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 300250047000S1	<b>Well Status:</b> Oil Well Shut In	<b>Operator:</b> MACK ENERGY CORPORATION

### Notice of Intent

**Sundry ID:** 2671668

**Type of Submission:** Notice of Intent

**Type of Action:** Plug and Abandonment

**Date Sundry Submitted:** 05/13/2022

**Time Sundry Submitted:** 09:35

**Date proposed operation will begin:** 05/13/2022

**Procedure Description:** 1. Set 4 1/2" CIBP @ 3830'. Pressure test csg. Spot 25 sx cmt @ 3830-3630'. WOC & Tag. (GRBG) 2. Perf & Sqz 30 sx cmt @ 2150-1950'. WOC & Tag (B/Salt) 3. Perf & Sqz 30 sx cmt @ 1124-957'. WOC & Tag (7 5/8" Shoe & T/Salt) 4. Perf & Sqz 30 sx cmt @ 200' to surface. 5. Cut off well head, verify cmt @ surface, weld on Dry Hole Marker.

### Surface Disturbance

**Is any additional surface disturbance proposed?:** No

### NOI Attachments

**Procedure Description**

Grace\_Mitchell\_B\_Fed\_5\_\_\_BLM\_20220513093434.pdf

Grace\_Mitchell\_B\_Fed\_5\_\_\_Current\_WBD\_20220513093434.pdf

Grace\_Mitchell\_B\_Fed\_5\_\_\_Proposed\_WBD\_20220513093434.pdf

Well Name: GRACE MITCHELL B

Well Location: T17S / R32E / SEC 5 / SENE /

County or Parish/State: LEA / NM

Well Number: 05

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC029406B

Unit or CA Name:

Unit or CA Number:

US Well Number: 300250047000S1

Well Status: Oil Well Shut In

Operator: MACK ENERGY CORPORATION

**Operator**

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: DELILAH FLORES

Signed on: MAY 13, 2022 09:34 AM

Name: MACK ENERGY CORPORATION

Title: Regulatory Technician 1

Street Address: 11344 LOVINGTON HWY

City: ARTESIA State: NM

Phone: (575) 748-1288

Email address: DELILAH@MEC.COM

**Field**

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

## PLUG AND ABANDONMENT CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	<b>Mack Energy Corporation</b>
<b>LEASE NO.:</b>	<b>NMLC029406B</b>
<b>WELL NAME &amp; NO.:</b>	<b>Grace Mitchell B 05</b>
<b>US Well Number:</b>	3002500470
<b>LOCATION:</b>	Section 5, T.17 S., R.32 E., NMPM
<b>COUNTY:</b>	Lea County, New Mexico
<b>Sundry ID:</b>	<b>2671668</b>
<b>Karst:</b>	<input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> Critical
<b>Potash:</b>	<input type="checkbox"/> Secretary <input type="checkbox"/> R111P
<b>Special Area:</b>	<input checked="" type="checkbox"/> Prairie Chicken <input type="checkbox"/> Capitan Reef

1. Set 4 1/2" CIBP @ 3830'. Pressure test csg. Spot 25 sx cmt @ 3830-3630'. WOC & Tag. (GRBG)
2. Perf & Sqz 30 sx cmt @ ~~2280' to 1979'~~ ~~2150-1950'~~. WOC & Tag (B/Salt)
3. Perf & Sqz ~~30-56~~ sx cmt @ ~~1124-957'~~ 1110' to 946'. WOC & Tag (7 5/8" Shoe & T/Salt) (In/Out)
4. Perf & Sqz ~~30-38~~ sx cmt @ 200' to surface. (In/Out) Verify at Surface.
5. Cut off well head, verify cmt @ surface, weld on Dry Hole Marker.

## Approval Subject to General Requirements and Special Stipulations Attached

- **No more than 3000 feet between cement plugs in cased hole.**
- **Wait on Cement and Tag Top of Cement Requirement:**
  1. **Shoe, Top of Salt, Base of Salt, DV tool, Perforate and Squeeze, Open Perforation.**
  2. **Formation plug is optional if a solid base is established and confirmed.**

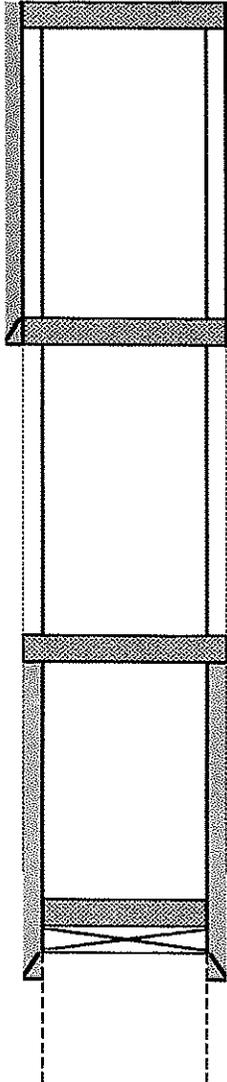
Cave/Karst: Low  
Sundry ID: 2671668

<b>Mack Energy Corporation</b>		<b>PROPOSED</b>	
Author:	<b>Abby @ BCM</b>	Well No.	<b>#5</b>
Well Name	Grace Mitchell B Fed	API #:	<b>30-025-00470</b>
Field/Pool	Maljamar; GRBG-SA	Location:	<b>Sec 5, T17S, R32E</b>
County	<b>Lea</b>		<b>1980 FNL &amp; 660 FEL</b>
State	<b>NM</b>	GL:	<b>4131</b>
Spud Date	<b>5/24/1962</b>		

Description	O.D.	Grade	Weight	Depth	Hole	Cmt Sx	TOC
Surface Csg	7 5/8	H40	24#	1,007	11	475	0
Prod Csg	4 1/2	H40	9.5#	3,880	6 3/4	200	1970' Calc

See COA for requirements.

Formation	Top
Rust	960
T/Salt	1074
B/Salt	2070
Yates	2268
7Rivs	2602
Queen	3217
GRBG	3673
SA	3959
Loving	4080
Glorieta	5431
PD	5511



4. Perf & Sqz 30 sx cmt @ 200' to surface.

7 5/8 24# CSG @ 1,007  
Hole Size: 11

3. Perf & Sqz30 sx cmt @ 1124-957'. WOC & Tag ( 7 5/8" Shoe & T/Salt)

2. Perf & Sqz 30 sx cmt @ 2150-1950'. WOC & Tag (B/Salt)

1. Set 4 1/2" CIBP @ 3830'. Pressure test csg. Spot 25 sx cmt @ 3830-3630'. WOC & Tag. (GRBG)

4 1/2 9.5# CSG @ 3,880  
Hole Size: 6 3/4

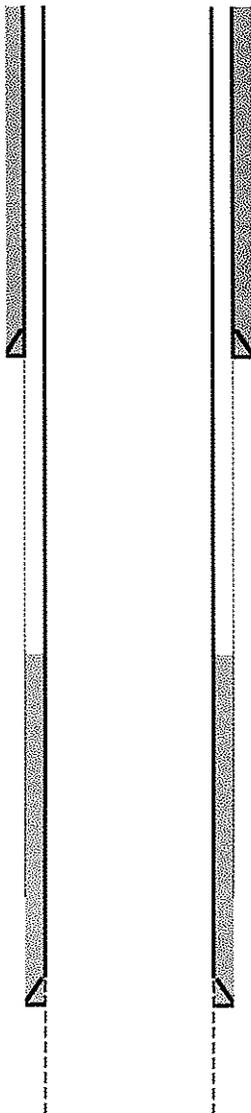
32.8654442  
-103.7822952

Open hole @ 3880-4132'

Mack Energy Corporation		CURRENT	
Author:	Abby @ BCM	Well No.	#5
Well Name	Grace Mitchell B Fed	API #:	30-025-00470
Field/Pool	Maljamar; GRBG-SA	Location:	Sec 5, T17S, R32E
County	Lea		1980 FNL & 660 FEL
State	NM	GL:	4131
Spud Date	5/24/1962		

Description	O.D.	Grade	Weight	Depth	Hole	Cmt Sx	TOC
Surface Csg	7 5/8	H40	24#	1,007	11	475	0
Prod Csg	4 1/2	H40	9.5#	3,880	6 3/4	200	1970' Calc

Formation	Top
Rust	960
T/Salt	1074
B/Salt	2070
Yates	2268
7Rivs	2602
Queen	3217
GRBG	3673
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7 5/8 24# CSG @ 1,007  
Hole Size: 11

4 1/2 9.5# CSG @ 3,880  
Hole Size: 6 3/4

Open hole @ 3880-4132'

32.8654442  
-103.7822952

Sundry ID 2671668

Plug Type	Top	Bottom	Length	Tag	Sacks	Notes
Surface Plug	0.00	200.00	200.00	Tag/Verify	38.00	Perf and Squeeze fom 200' to surface. Verify at Surface. (In/Out)
Shoe Plug	946.93	1057.00	110.07	Tag/Verify		
Top of Salt @ 1060	999.40	1110.00	110.60	Tag/Verify	56.00	Perf and Squeeze from 1110' to 946'. (In/Out) WOC and Tag.
Base of Salt @ 2050	1979.50	2100.00	120.50	Tag/Verify		
Yates @ 2230	2157.70	2280.00	122.30	If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf & Sqz then Tag, Leak Test all CIBP if no Open Perforations	30.00	Spot from 2280' to 1979'. WOC and Tag.
Shoe Plug	3791.20	3930.00	138.80	Tag/Verify		

<p><b>CIBP Plug</b></p>	<p>3795.00</p>	<p>3830.00</p>	<p>35.00</p>	<p>If solid base no need to Tag (CIBP present and/or Mechanical Integrity Test), If Perf &amp; Sqz then Tag, Leak Test all CIBP if no Open Perforations</p>	<p>25.00</p>	<p>Set CIBP at 3830'. Spot from 3830' to 3630'. WOC and Tag.</p>
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<b>No more than 2000' is to be allowed between plugs in open hole, and no more than 3000' between plugs in cased hole.</b>
<b>Class H &gt;7500'</b>
<b>Class C &lt;7500'</b>
<b>Fluid used to mix the cement in R111P shall be saturated with the salts common to the section penetrated, and in suitable proportions, but not more than 3% calcium chloride by weight of cement will be considered the desired mixture whenever possible.</b>
<b>Medium, Secretary: Top of salt to surface <b>If no salt take the deepest fresh water.</b></b>
<b>High, Critical: Bottom of Karst to surface or Deepest fresh water, whichever is greater</b>
<b>R111P: 50 Feet from Base of Salt to surface.</b>

<b>Class C: 1.32 ft<sup>3</sup>/sx</b>
<b>Class H: 1.06 ft<sup>3</sup>/sx</b>

**Onshore Order 2.III.G Drilling Abandonment Requirements: "All formations bearing usable-quality water, oil, gas, or geothermal resources, and/or a prospectively valuable deposit of minerals shall be protected.**

<b>Cave Karst/Potash Cement</b>	<b>Low</b>	
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Shoe @ 1007.00

Shoe @ 3880.00      TOC @ 1970.00

CIBP @ 3830.00

**BUREAU OF LAND MANAGEMENT  
Carlsbad Field Office  
620 East Greene Street  
Carlsbad, New Mexico 88220  
575-234-5972**

**Permanent Abandonment of Federal Wells  
Conditions of Approval (LPC Habitat)**

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within **ninety (90)** days from the approval date of this Notice of Intent to Abandon.

**If you are unable to plug the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.**

**The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.**

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-689-5981.

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of brine water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. Below Ground Level Cap (Lesser Prairie-Chicken Habitat): All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). **The BLM is to be notified a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10<sup>th</sup> day, the BLM is to be contacted with justification to receive an extension for completing the cut off.** Upon the plugging and subsequent abandonment of wells that are located in lesser prairie-chicken habitat, the casings shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be covered with a metal plate at least ¼ inch thick and welded in place. A weep hole shall be left in the plate and/or casing.

NMOCD also requires the operator to notify NMOCD when this type of dry hole marker is used. This can be done on the subsequent report of abandonment which is submitted to the BLM after the well is plugged. State that a below ground cap was installed as required in the COA's from the BLM.

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**

8. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.

**Timing Limitation Stipulation/ Condition of Approval for Lesser Prairie-Chicken:**

From March 1<sup>st</sup> through June 15<sup>th</sup> annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Carlsbad Field Office  
620 E. Greene St.  
Carlsbad, New Mexico 88220-6292  
www.blm.gov/nm



In Reply Refer To: 1310

### Reclamation Objectives and Procedures

**Reclamation Objective:** Oil and gas development is one of many uses of the public lands and resources. While development may have a short- or long-term effect on the land, successful reclamation can ensure the effect is not permanent. During the life of the development, all disturbed areas not needed for active support of production operations should undergo “interim” reclamation in order to minimize the environmental impacts of development on other resources and uses. At final abandonment, well locations, production facilities, and access roads must undergo “final” reclamation so that the character and productivity of the land and water are restored.

The long-term objective of final reclamation is to set the course for eventual ecosystem restoration, including the restoration of the natural vegetation community, hydrology, and wildlife habitats. In most cases this means returning the land to a condition approximating or equal to that which existed prior to the disturbance. The final goal of reclamation is to restore the character of the land and water to its pre-disturbance condition. The operator is generally not responsible for achieving full ecological restoration of the site. Instead, the operator must achieve the short-term stability, visual, hydrological, and productivity objectives of the surface management agency and take steps necessary to ensure that long-term objectives will be reached through natural processes.

To achieve these objectives, remove any and all contaminants, scrap/trash, equipment, pipelines and powerlines (**Contact service companies, allowing plenty of time to have the risers and power lines and poles removed prior to reclamation, don't wait till the last day and try to get them to remove infrastructure**). Strip and remove caliche, contour the location to blend with the surrounding landscape, re-distribute the native soils, provide erosion control as needed, rip (across the slope and seed as specified in the original APD COA. **This will apply to well pads, facilities, and access roads.** Barricade access road at the starting point. If reserve pits have not reclaimed due to salts or other contaminants, submit a plan for approval, as to how you propose to provide adequate restoration of the pit area.

1. The Application for Permit to Drill or Reenter (APD, Form 3160-3), Surface Use Plan of Operations must include adequate measures for stabilization and reclamation of disturbed lands. Oil and Gas operators must plan for reclamation, both interim and final, up front in the APD process as per Onshore Oil and Gas Order No. 1.
2. For wells and/or access roads not having an approved plan, or an inadequate plan for surface reclamation (either interim or final reclamation), the operator must submit a proposal describing the procedures for reclamation. For interim reclamation, the appropriate time for submittal would be when filing the Well Completion or Recompletion Report and Log (Form 3160-4). For final reclamation, the appropriate time for submittal would be when filing the Notice of Intent, or the Subsequent Report of Abandonment, Sundry Notices and Reports on Wells (Form 3160-5). Interim reclamation is to be completed within 6 months of well completion, and final reclamation is to be completed within 6 months of well abandonment.
3. The operator must file a Subsequent Report Plug and Abandonment (Form 3160-5) following the plugging of a well.
4. Previous instruction had you waiting for a BLM specialist to inspect the location and provide you with reclamation requirements. If you have an approved Surface Use Plan of Operation and/or an approved Sundry Notice, you are free to proceed with reclamation as per approved APD. If you

have issues or concerns, contact a BLM specialist to assist you. It would be in your interest to have a BLM specialist look at the location and access road prior to the removal of reclamation equipment to ensure that it meets BLM objectives. Upon conclusion submit a Form 3160-5, Subsequent Report of Reclamation. This will prompt a specialist to inspect the location to verify work was completed as per approved plans.

5. The approved Subsequent Report of Reclamation will be your notice that the native soils, contour and seedbed have been reestablished. If the BLM objectives have not been met the operator will be notified and corrective actions may be required.
6. It is the responsibility of the operator to monitor these locations and/or access roads until such time as the operator feels that the BLM objective has been met. If after two growing seasons the location and/or access roads are not showing the potential for successful revegetation, additional actions may be needed. When you feel the BLM objectives have been met submit a Final Abandonment Notice (FAN), Form 3160-5, stating that all reclamation requirements have been achieved and the location and/or access road is ready for a final abandonment inspection.
7. At this time the BLM specialist will inspect the location and/or access road. If the native soils and contour have been restored, and the revegetation is successful, the FAN will be approved, releasing the operator of any further liability of the location and/or access road. If the location and/or access road have not achieved the objective, you will be notified as to additional work needed or additional time being needed to achieve the objective.

If there are any questions, please feel free to contact any of the following specialists:

Jim Amos  
Supervisory Petroleum Engineering Tech/Environmental Protection Specialist  
575-234-5909 (Office), 575-361-2648 (Cell)

Arthur Arias  
Environmental Protection Specialist  
575-234-6230

Crisha Morgan  
Environmental Protection Specialist  
575-234-5987

Jose Martinez-Colon  
Environmental Protection Specialist  
575-234-5951

Mark Mattozzi  
Environmental Protection Specialist  
575-234-5713

Trishia Bad Bear, Hobbs Field Station  
Natural Resource Specialist  
575-393-3612



**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**

COMMENTS

Action 118068

**COMMENTS**

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 118068
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

**COMMENTS**

Created By	Comment	Comment Date
plmartinez	DATA ENTRY PM	7/6/2022

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720  
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 Phone:(505) 334-6178 Fax:(505) 334-6170  
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 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**

CONDITIONS

Action 118068

**CONDITIONS**

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 118068
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

**CONDITIONS**

Created By	Condition	Condition Date
kfortner	Like approval from BLM	7/1/2022