

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMLC064098
2. Name of Operator LEGACY RESERVES OPERATING LP Contact: KENT WILLIAMS E-Mail: kwilliams@legacyp.com		6. If Indian, Allottee or Tribe Name
3a. Address 303 W WALL SUITE 1600 MIDLAND, TX 79702	3b. Phone No. (include area code) Ph: 432.689.5200	7. If Unit or CA/Agreement, Name and/or No. 8910086380
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 5 T18S R32E SESW 990FSL 1650FWL		8. Well Name and No. PEARSALL QN SAND UT 18
		9. API Well No. 30-025-00845-00-S2
		10. Field and Pool, or Exploratory PEARSALL
		11. County or Parish, and State LEA COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abar
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal

INT TO PA
P&A NR
RBDMS

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 recompleate 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 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Plug and abandon well. Will perform turn-key PXA with approved vendor.

See attached plugging procedure along with current and proposed wellbore diagrams.

RECLAMATION PROCEDURE
ATTACHED

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

LPC Stigs attached

14. I hereby certify that the foregoing is true and correct. Electronic Submission #301063 verified by the BLM Well Information System For LEGACY RESERVES OPERATING LP, sent to the Hobbs Committed to AFMSS for processing by LINDA JIMENEZ on 08/20/2015 (15LJ1615SE)	
Name (Printed/Typed) KENT WILLIAMS	Title SENIOR PETROLEUM ENGINEER
Signature (Electronic Submission)	Date 05/07/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>Chs Walls</u>	Title <u>Eng.</u>	Date <u>1/19/16</u>
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.		Office <u>CEO</u>

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****
FOR RECORD ONLY
MW/OCD 01/26/2016

JAN 27 2016

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PLUG AND ABANDONMENT PROCEDURE-PROPOSED

Pearsall Queen Sand Unit #18

Field: Pearsall (Queen)
Lea Co., NM
API: 30-025-00845

Engineer: Kent Williams
Company: Legacy Reserves Operating, LP
Date: 4/21/2015

Purpose Of Procedure: Plug and abandon. Will perform turn-key PXA with approved vendor.

Pre-Job:

- Check location for required dirtwork
- Test pulling unit anchors if necessary

Procedure:

1. MIRU plugging company. NU 2000# minimum rated BOP.
2. RIH w/ 2 3/8" tbg workstring
3. Plug #1 (Perforation Plug) RIH and set 5 1/2" CIBP at 2875' (8' KB). Spot 25 sxs cmt on top of plug from 2875-2507' (368'). ~~No tag~~ required. (Top of Plug - 2500')
2450' See COR
4. Lower tbg to TOC plug. Circulate the casing w/ mud laden fluid. Csg Volume = 40 bbls
5. Plug #2 (Casing Plug) Perf csg at 2000'. Sqz 35 sxs cmt from 2000'-1850' (150'). ~~No~~ tag required.
1300 1300 1100
6. Plug #3 (Casing Shoe Plug) Perf csg at 1210'. Sqz 90 sxs cmt from 1210'-1060' (150'). WOC, Tag plug. (TOS - 1250')
7. Plug #4 (Casing Plug) Perf csg at 500'. Sqz 60 sxs cmt from 500'-400' (100'). ~~No~~ tag required.
8. Plug #5 (Surface Plug) Perforate csg at 60'. Sqz and circulate 40 sxs cement from 60'-0' (60').
Top off csg at surface.
9. Cut off well head. Weld on dry hole marker. Backfill cellar as necessary. Clean location. RDMO.

Note:

- Use Class "C" Neat Cement, 1.32 ft³/sx cmt yield
- Use 9.0 PPG mud laden fluid (25 sxs @ 50 # gel/sx in 100 bbls brine).
- Notify BLM office (Carlsbad, NM) at (575) 234-5972 at least 24 hrs prior to initiating plugging.



PEARSALL QUEEN SAND UNIT #18

Current wellbore diagram

FIELD: ~~Tamano East~~ **Pearsall (Queen)** GL: 3808'
COUNTY: Lea KB: Unknown
STATE: New Mexico SPUD DATE: 06/18/59,
Re-entered 5/12/82

LATEST UPDATE: 12/06/2013

BY: BKL

API No: 30-025-00845

Location:

SHL: 990' FSL & 1650' FWL, Sec. 5, T18S, R32E

7", 20# csg set @ 1160', cmt'd w/ 100 sx, TOC @ 860' (calc.)

11" Hole

TOC @ 2410' (CBL-4/30/14)

Seven Rivers perms 2925'-3470' – frac w/ 50,000# 16/30 sd.

CIBP @ 3650' with 35' cmt on top

Queen perms 3713'-3736' – frac w/ 38,000 gal LG, 48,000# sd.

6-1/4" Hole

**4-1/2", 10.5#, csg set @ 3850', cmt'd w/ 340
sx, TOC @ 500'**

PBTD 3810'

TD 3850'



PEARSALL QUEEN SAND UNIT #18

Proposed PxA Wellbore Diagram

FIELD: ~~Tamano-East~~ **Pearsall (Queen)**
 COUNTY: Lea
 STATE: New Mexico

GL: 3808'
 KB: Unknown
 SPUD DATE: 06/18/59,
 Re-entered 5/12/82

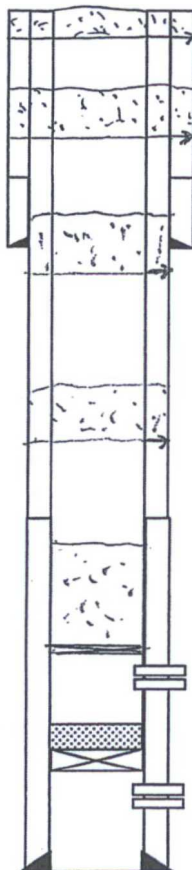
LATEST UPDATE: 12/06/2013
 BY: BKL
 API No: 30-025-00845

Location:

SHL: 990' FSL & 1650' FWL, Sec. 5, T18S, R32E

7", 20# csg set @ 1160', cmt'd w/ 100 sx, TOC @ 860' (calc.)

11" Hole



TOC @ 2410' (CBL-4/30/14)

Seven Rivers perms 2925'-3470' – frac w/ 50,000# 16/30 sd.

CIBP @ 3650' with 35' cmt on top

Queen perms 3713'-3736' – frac w/ 38,000 gal LG, 48,000# sd.

6-1/4" Hole

**4-1/2", 10.5#, csg set @ 3850', cmt'd w/ 340
 sx, TOC @ 500'**

PBTD 3810'

TD 3850'

**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 90th day provide this office, prior to the 90th 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 575-393-3612.

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 10th 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 1st through June 15th 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. Strip and remove caliche, contour the location to blend with the surrounding landscape, redistribute the native soils, provide erosion control as needed, rip 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
575-234-5909, 575-361-2648 (Cell)

Arthur Arias
Environmental Protection Specialist
575-234-6230

Linda Denniston
Environmental Protection Specialist
575-234-5974

Henryetta Price
Environmental Protection Specialist
575-234-5951

Dara Glass
Environmental Protection Specialist
575-234-5924

Shelly Tucker
Environmental Protection Specialist
575-234-5979