| Form 3160-5<br>(August 2007)   | UNITED STATES  |   | OCD.Ho                          | , hha                                | FORM  | APPROVED                         |
|--|--|---|---------------------------------|--------------------------------------|---|----------------------------------|
| I I I L  | EPARTMENT OF THE I<br>UREAU OF LAND MANA   | _   |                                 | ecelly.                              | OMB N<br>Expires:                                   | IO. 1004-0135<br>: July 31, 2010 |
| SOUDSUNDRY   | NOTICES AND REPO is form for proposals to  | RTS ON WELLS  |                                 | ·velv                                | 5. Lease Serial No.<br>NMNM78273                    |                                  |
| abandoned we   | II. Use form 3160-3 (AP  | D) for such propos  | sals. JAN                       | 1282011                              | 6. If Indian, Allottee                              | or Tribe Name                    |
| SUBMIT IN TRI  | PLICATE - Other instruc  | tions on reverse  |                                 | 380CD                                |   | ement, Name and/or No.           |
| 1. Type of Well  ☐ Gas Well ☐ Other  |  |   |                                 |                                      | 8. Well Name and No.<br>LUCY FEDERAL 2              |                                  |
| 2. Name of Operator Contact: DAVID LUNA  |  |   |                                 |                                      | 9. API Well No.                                     |                                  |
| READ & STEVENS E-Mail: dluna@read-stevens.com  3a. Address   3b. Phone No. (include area code)   |  |   |                                 | 30-025                               | -40055  |                                  |
| P. O. BOX 1518<br>ROSWELL, NM 88201  |  | Ph: 575-622-377<br>Fx: 575-622-8643                                       | 0 Ext: 305                      |                                      | 10. Field and Pool, or<br>LEA-YATES                 | Exploratory                      |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)   |  |   |                                 |                                      | 11. County or Parish, and State                     |                                  |
| Sec 14 T20S R34E 1980FSL 330FWL  |  |   |                                 |                                      | LEA COUNTY COUNTY, NM                               |                                  |
| 12. CHECK APPI   | ROPRIATE BOX(ES) TO  | INDICATE NAT  | URE OF 1                        | NOTICE, RI                           | EPORT, OR OTHE                                      | R DATA                           |
| TYPE OF SUBMISSION   | TYPE OF ACTION   |   |                                 |                                      |   |                                  |
| Notice of Intent   | □ Acidize  | Deepen  |                                 | □ Product                            | ion (Start/Resume)                                  | ☐ Water Shut-Off                 |
| Subsequent Report  | Alter Casing   | Fracture Ti   |                                 | □ Reclama                            |   | ☐ Well Integrity                 |
| <del></del>  | Change Repair  | □ New Const   |                                 | Recomp                               |   | ☑ Other                          |
| ☐ Final Abandonment Notice   | ☐ Change Plans ☐ Convert to Injection  | ☐ Plug and A☐ Plug Back   | bandon                          | ☐ Tempora                            | arily Abandon                                       |                                  |
| Attach the Bond under which the worfollowing completion of the involved testing has been completed. Final Abdetermined that the site is ready for fi Request to construct location construction to dluna@read-st  This is due to being in LPC tim  SEE ATTACHI  CONDITIONS | operations. If the operation respondenment Notices shall be file inal inspection.)  prior to the approval of Aftevens.com.  hing 2010 and rig availabi | ults in a multiple comp<br>and only after all requirer  PD. Please send C | letion or reco<br>nents, includ | ompletion in a r<br>ling reclamation | new interval, a Form 316<br>n, have been completed, | O-4 chall be filed once          |
| 14. I hereby certify that the foregoing is   | true and correct   |   |                                 |                                      |   |                                  |
| and are zoroBound in   | Electronic Submission #1   | 01023 verified by th<br>D & STEVENS, sen                                  | BLM Well<br>to the Hol          | i Information<br>bbs                 | System  |                                  |
| Name (Printed/Typed) DAVID LUNA  |  | Title   | Title OPERATIONS ENGINEER       |                                      |   |                                  |
| Signature (Electronic S  | ubmission)   | Date .  | 01/21/20                        | 011                                  |   |                                  |
|  | THIS SPACE FO  | R FEDERAL OR  | STATE (                         | OFFICE US                            | E Vic   | APR 0 4 2011                     |
| Approved By  |  | Title   | AFY                             | M                                    |   | Date 26/11                       |
| 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 CARLSBAD FIELD OFFICE    |                                      |   |                                  |
| Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s   | U.S.C. Section 1212, make it a tatements or representations as   | crime for any person kn<br>to any matter within its                       | owingly and jurisdiction.       | willfully to ma                      | ke to any department or                             | agency of the United             |

# PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: Read & Stevens, Inc
LEASE NO.: NM78273
WELL NAME & NO.: 2-LUCY FEDERAL
SURFACE HOLE FOOTAGE: BOTTOM HOLE FOOTAGE
LOCATION: Section 14, T. 20 S., R. 34 E., NMPM
COUNTY: Lea County, New Mexico

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Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

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## I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

## II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

# III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

## IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

# V. SPECIAL REQUIREMENT(S)

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken: Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

## VI. CONSTRUCTION

#### A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Hobbs Field Station at (575) 393-3612 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

## B. TOPSOIL

The operator shall stockpile the topsoil in a low profile manner in order to prevent wind/water erosion of the topsoil. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be used for interim and final reclamation.

# C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

## D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

#### E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

## F. ON LEASE ACCESS ROADS

#### Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty (20) feet.

### Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

### Crowning

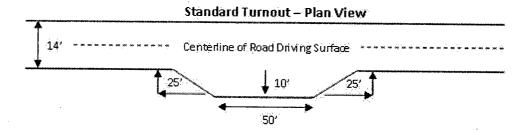
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

#### Ditching

Ditching shall be required on the uphill side of the road.

#### **Turnouts**

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:

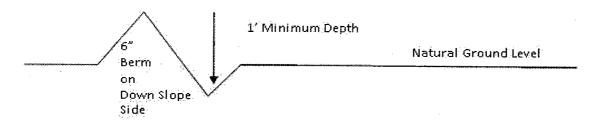


## Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

# Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

## Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: 
$$\frac{400'}{4\%}$$
 + 100' = 200' lead-off ditch interval

#### **Culvert Installations**

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

#### Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

# Fence Requirement

Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

## **Public Access**

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

shoulder-100' Intervisible turnouts shall be constructed on oil kingle lane roads on oil blind curves with additional turnouts as needed to keep spacing below 1000 feet. **Typical Turnout Plan** embankment slope 3:1 2.1 **Embankment Section** road Type earth surface .03 - .05 fr/H oggregate surface .02 - .04 h/h Depth measured from the bottom of the disch Side Hill Section Iravel surface Iravel 2 - 4% |

Figure 1 - Cross Sections and Plans For Typical Road Sections

**Typical Inslope Section** 

**Typical Outsloped Section** 

# VII. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

# VIII. PRODUCTION (POST DRILLING)

#### A. WELL STRUCTURES & FACILITIES

#### **Placement of Production Facilities**

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

## **Containment Structures**

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

# Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color Shale Green, Munsell Soil Color Chart # 5Y 4/2

## IX. INTERIM RECLAMATION

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.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

# X. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

# Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)\* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed\* per acre:

| Species             | <u>lb/acre</u> |
|---------------------|----------------|
| Plains Bristlegrass | 5lbs/A         |
| Sand Bluestem       | 5lbs/A         |
| Little Bluestem     | 3lbs/A         |
| Big Bluestem        | 6lbs/A         |
| Plains Coreopsis    | 2lbs/A         |
| Sand Dropseed       | 1lbs/A         |
|                     |                |

<sup>\*\*</sup>Four-winged Saltbush

Pounds of seed x percent purity x percent germination = pounds pure live seed

<sup>5</sup>lbs/A \* This can be used around well pads and other areas where caliche cannot be removed.

<sup>\*</sup>Pounds of pure live seed: