	UNITED STATES	NTERIOR - main and	OM	RM APPROVED B NO. 1004-0137 S. January 31, 2018
SUNDRY	UREAU OF LAND MANA NOTICES AND REPO is form for proposals to II. Use form 3160-3 (API	RTS ON WELLS	5. Lease Serial No. NMNM1235 Honday, Silot	33
	TRIPLICATE - Other Inst	-	7. If Unit or CA/A	Agreement, Name and/or No.
1. Type of Well			7. If Unit or CA/A 8. Well Name and KESTREL 26	
2. Name of Operator     Contact: EMILY FOLLIS			9. API Well No.	
	ORATEDE-Mail: emily_follis	@eogresources.com	30-025-4635	
Ba. Address PO BOX 2267 MIDLAND, TX 79702		3b. Phone No. (include area code Ph: 432-636-3600		l or Exploratory Area S243336I-UP WOLFCAN
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description)		11. County or Par	ish, State
Sec 26 T24S R34E SWSW 45 32.182510 N Lat, 103.446190			LEA COUNTY, NM	
12. CHECK THE AP	PROPRIATE BOX(ES)	TO INDICATE NATURE O	F NOTICE, REPORT, OR (	OTHER DATA
TYPE OF SUBMISSION		TYPE O	FACTION	
Notice of Intent	C Acidize	Deepen	Production (Start/Resume	. —
Subsequent Report	Alter Casing	Hydraulic Fracturing		U Well Integrity
	Casing Repair	New Construction		🛛 Other Right of Way
Final Abandonment Notice	Change Plans Convert to Injection	Plug and Abandon Plug Back	Temporarily Abandon Water Disposal	5 ,
If the proposal is to deepen directional Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for fin ?EOG Resources request to m owners request, the road will c head west following existing di	k will be performed or provide i operations. If the operation res andonment Notices must be file nal inspection. Take a change to the acce come off an existing lease sturbance to the well loca	give subsurface locations and measu the Bond No. on file with BLM/BL/ ults in a multiple completion or reco d only after all requirements, include ess road to the well locations. road north of Battle Ax coun- tions. Please reference attact	Ted and true vertical depths of all p A. Required subsequent reports mus completion in a new interval, a Form ling reclamation, have been comple Upon surface ty road and hed plat for	ertinent markers and zones. t be filed within 30 days 3160-4 must be filed once
If the proposal is to deepen directiona Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for fin ?EOG Resources request to m owners request, the road will c head west following existing di visual reference of new road no road width is requested at the	Illy or recomplete horizontally, j k will be performed or provide i operations. If the operation res andonment Notices must be file nal inspection. The come off an existing lease sturbance to the well loca bute. The road width required EOL on the plat.?	give subsurface locations and measurface locations and measurface locations and measurface locations and measurface on file with BLM/BL/All ults in a multiple completion or record only after all requirements, include ess road to the well locations. road north of Battle Ax countions. Please reference attacted will be 30 ft. An additionation will be 30 ft. An additionationation will be 30 ft. An additionation will be 30 ft. An additionationation will be 30 ft. An additionationationationationation will be 30 ft. An additionationationationationation will be 30 ft. An additionationationationationationationation	red and true vertical depths of all p A. Required subsequent reports mus pompletion in a new interval, a Form ling reclamation, have been comple Upon surface ty road and hed plat for nal 50 ft in I Information System	ertinent markers and zones. t be filed within 30 days 3160-4 must be filed once
If the proposal is to deepen directiona Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for fin ?EOG Resources request to m owners request, the road will c head west following existing di visual reference of new road no road width is requested at the 4. I hereby certify that the foregoing is	Illy or recomplete horizontally, j k will be performed or provide i operations. If the operation res andonment Notices must be file nal inspection. hake a change to the acces come off an existing lease sturbance to the well loca bute. The road width requi EOL on the plat.?	give subsurface locations and measu the Bond No. on file with BLM/BL/ ults in a multiple completion or reco d only after all requirements, include ess road to the well locations. road north of Battle Ax coun- tions. Please reference attact	The and true vertical depths of all p A. Required subsequent reports mus- sompletion in a new interval, a Form ling reclamation, have been comple Upon surface ty road and shed plat for nal 50 ft in Il Information System to the Hobbs	ertinent markers and zones. t be filed within 30 days 3160-4 must be filed once
If the proposal is to deepen directiona Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for fin ?EOG Resources request to m owners request, the road will c head west following existing di visual reference of new road no road width is requested at the 4. I hereby certify that the foregoing is	Ily or recomplete horizontally, j k will be performed or provide operations. If the operation res andonment Notices must be file nal inspection. The come off an existing lease sturbance to the well loca bute. The road width require EOL on the plat.? True and correct. Electronic Submission #4 For EOG RESOUR	give subsurface locations and measure the Bond No. on file with BLM/BL/ ults in a multiple completion or recor- d only after all requirements, include ess road to the well locations. road north of Battle Ax coun- tions. Please reference attact ested will be 30 ft. An addition 83310 verified by the BLM Wei RCES INCORPORATED, sent ssing by JUANA MEDRANO or	The and true vertical depths of all p A. Required subsequent reports mus- sompletion in a new interval, a Form ling reclamation, have been comple Upon surface ty road and shed plat for nal 50 ft in Il Information System to the Hobbs	ertinent markers and zones. t be filed within 30 days 3160-4 must be filed once ted and the operator has
If the proposal is to deepen directiona Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for fin ?EOG Resources request to m owners request, the road will c head west following existing di visual reference of new road ro road width is requested at the 4. I hereby certify that the foregoing is Com	Ily or recomplete horizontally, j k will be performed or provide i operations. If the operation res andonment Notices must be file nal inspection. The come off an existing lease sturbance to the well loca bute. The road width require EOL on the plat.? True and correct. Electronic Submission #4 For EOG RESOU mitted to AFMSS for proce	give subsurface locations and measure the Bond No. on file with BLM/BL/ ults in a multiple completion or recor- d only after all requirements, include ess road to the well locations. road north of Battle Ax coun- tions. Please reference attact ested will be 30 ft. An addition 83310 verified by the BLM Wei RCES INCORPORATED, sent ssing by JUANA MEDRANO or	Il Information System to the Hobbs n 09/16/2019 (19JM0109SE) DW AND LEASE OPERATIO	ertinent markers and zones. t be filed within 30 days 3160-4 must be filed once ted and the operator has
If the proposal is to deepen directiona Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for fin ?EOG Resources request to m owners request, the road will c head west following existing di visual reference of new road ro road width is requested at the 4. I hereby certify that the foregoing is Com Name (Printed/Typed) JAMES BA	Ily or recomplete horizontally, j k will be performed or provide i operations. If the operation res andonment Notices must be file nal inspection. hake a change to the acce come off an existing lease sturbance to the well loca bute. The road width requi EOL on the plat.? true and correct. Electronic Submission #4 For EOG RESOU mitted to AFMSS for proce ARWIS	give subsurface locations and measurface locations and measurface locations and measurface locations and measurface locations of the well locations. Please reference attacted will be 30 ft. An additionation will be 30 ft.	red and true vertical depths of all p A. Required subsequent reports mus sompletion in a new interval, a Form ling reclamation, have been comple Upon surface ty road and hed plat for nal 50 ft in Il Information System to the Hobbs n 09/16/2019 (19JM0109SE) DW AND LEASE OPERATIO 019	ertinent markers and zones. t be filed within 30 days 3160-4 must be filed once ted and the operator has
If the proposal is to deepen directiona Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for fin ?EOG Resources request to m owners request, the road will c head west following existing di visual reference of new road rc road width is requested at the 4. I hereby certify that the foregoing is Com Name (Printed/Typed) JAMES BA Signature (Electronic St Approved By	Illy or recomplete horizontally, j k will be performed or provide i operations. If the operation res andonment Notices must be file nal inspection. The come off an existing lease sturbance to the well loca bute. The road width requi EOL on the plat.? true and correct. Electronic Submission #4 For EOG RESOU mitted to AFMSS for proce ARWIS THIS SPACE FO	give subsurface locations and measure the Bond No. on file with BLM/BL/ ults in a multiple completion or recor- d only after all requirements, include ass road to the well locations. road north of Battle Ax coun- tions. Please reference attact ested will be 30 ft. An addition 83310 verified by the BLM Wei RCES INCORPORATED, sent ssing by JUANA MEDRANO or Title REP RC Date 09/13/2 R FEDERAL OR STATE	red and true vertical depths of all p A. Required subsequent reports mus sompletion in a new interval, a Form ling reclamation, have been comple Upon surface ty road and hed plat for nal 50 ft in Il Information System to the Hobbs n 09/16/2019 (19JM0109SE) DW AND LEASE OPERATIO 019	ertinent markers and zones. t be filed within 30 days 3160-4 must be filed once ted and the operator has
If the proposal is to deepen directiona Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for fin ?EOG Resources request to m owners request, the road will c head west following existing di visual reference of new road no road width is requested at the divisual reference of new road no road width is requested at the signature (Electronic Si Approved By ditions of approval, if any, are statched tify that the applicant holds legal or equi ich would entitle the applicant to conduct	Illy or recomplete horizontally, j k will be performed or provide i operations. If the operation resident andonment Notices must be file nal inspection. The context of the access come off an existing lease sturbance to the well locator. The road width required EOL on the plat.?	give subsurface locations and measu- the Bond No. on file with BLM/BL/ ults in a multiple completion or reco d only after all requirements, includ ess road to the well locations. road north of Battle Ax coun- tions. Please reference attac ested will be 30 ft. An additio 83310 verified by the BLM Wel RCES INCORPORATED, sent ssing by JU/NA MEDRANO or Title REP RC Date 09/13/2 R FEDERAL OR STATE 	red and true vertical depths of all p A. Required subsequent reports mus- sompletion in a new interval, a Form ling reclamation, have been comple Upon surface ty road and shed plat for nal 50 ft in III Information System to the Hobbs n 09/16/2019 (19JM0109SE) DW AND LEASE OPERATIO 019 OFFICE USE M	ertinent markers and zones. t be filed within 30 days 3160-4 must be filed once ted and the operator has N SR
If the proposal is to deepen directiona Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for fin ?EOG Resources request to m owners request, the road will c head west following existing di visual reference of new road ro road width is requested at the determined that the foregoing is com Name (Printed/Typed) JAMES BA Signature (Electronic St Approved By	Illy or recomplete horizontally, j k will be performed or provide i operations. If the operation res andonment Notices must be file nal inspection. hake a change to the acces come off an existing lease sturbance to the well loca bute. The road width requi- EOL on the plat.? true and correct. Electronic Submission #4 For EOG RESOU mitted to AFMSS for proce RWIS ubmission) THIS SPACE FO	give subsurface locations and measure the Bond No. on file with BLM/BL/ ults in a multiple completion or record d only after all requirements, include ass road to the well locations. road north of Battle Ax count tions. Please reference attact ested will be 30 ft. An addition 83310 verified by the BLM We RCES INCORPORATED, sent ssing by JUANA MEDRANO or Title REP RO Date 09/13/2 R FEDERAL OR STATE	red and true vertical depths of all p A. Required subsequent reports mus- sompletion in a new interval, a Form ling reclamation, have been comple Upon surface ty road and shed plat for nal 50 ft in III Information System to the Hobbs n 09/16/2019 (19JM0109SE) DW AND LEASE OPERATIO 019 OFFICE USE M	ertinent markers and zones. t be filed within 30 days 3160-4 must be filed once ted and the operator has N SR

٢.

# BLM Lease Number: NMNM123533 Company Reference: EOG Resources Incorporated Well Name & Number: Kestrel 26 Fed 701H

# STANDARD STIPULATIONS FOR OIL AND GAS RELATED SITES

A copy of the application (Grant/Sundry Notice) and attachments, including stipulations and map, will be on location during construction. BLM personnel may request to view a copy of your permit during construction to ensure compliance with all stipulations.

The holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer, BLM.

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant and for all response costs, penalties, damages, claims, and other costs arising from the provisions of the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. Chap. 82, Section 6901 et. seq., from the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. Chap. 109, Section 9601 et. seq., and from other applicable environmental statues.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, et. seq.) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized by this grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et. seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et. seq.) on the right-of-way (unless the release or threatened release is wholly unrelated to the right-of-way holder's activity on the right-of-way). This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the site or related pipeline(s), any oil or other pollutant should be discharged from site facilities, the pipeline(s) or from containers or vehicles impacting Federal lands, the control and total removal, disposal, and cleanup of such oil of other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such

discharge on or affecting Federal lands, or to repair all damages to Federal lands resulting therefrom, the Authorized Officer may take such measures as deemed necessary to control and cleanup the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any liability or responsibility.

5. Sites shall be maintained in an orderly, sanitary condition at all times. Waste materials, both liquid and solid, shall be disposed of promptly at an appropriate, authorized waste disposal facility in accordance with all applicable State and Federal laws. "Waste" means all discarded matter including, but not limited to, human waste, trash, garbage, refuse, petroleum products, brines, chemicals, oil drums, ashes, and equipment.

6. The operator will notify the Bureau of Land Management (BLM) authorized officer and nearest Fish and Wildlife Service (FWS) Law Enforcement office within 24 hours, if the operator discovers a dead or injured federally protected species (i.e., migratory bird species, bald or golden eagle, or species listed by the FWS as threatened or endangered) in or adjacent to a pit, trench, tank, exhaust stack, or fence. (If the operator is unable to contact the FWS Law Enforcement office, the operator must contact the nearest FWS Ecological Services office.)

7. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" designated by the Rocky Mountain Five-State Interagency Committee. The color selected for this project is **Shale Green**, Munsell Soil Color Chart Number 5Y 4/2.

8. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder 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 will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

9. A sales contract for removal of mineral material (caliche, sand, gravel, fill dirt) from an authorized pit, site, or on location must be obtained from the BLM prior to commencing construction. There are several options available for purchasing mineral material: contact the BLM office (575-234-5972).

10. 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.

11. Once the site is no longer in service or use, the site must undergo final abandonment. At final abandonment, the site 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 the abandonment of the site. All pads and 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. 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).

12. The holder shall stockpile an adequate amount of topsoil where blading occurs. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles. The topsoil will be used for final reclamation.

13. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

() seed mixture 1	(	) seed mixture 3
(X) seed mixture 2	(	) seed mixture 4
() seed mixture 2/LPC	(	) Aplomado Falcon Mixture

14. In those areas where erosion control structures are required to stabilize soil conditions, the holder shall install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound management practices. Any earth work will require prior approval by the Authorized Officer.

15. Open-topped Tanks - The operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps

16. The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency

livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

17. Open-Vent Exhaust Stack Exclosures – The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

18. Containment Structures - Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

## 19. Special Stipulations:

- The entire well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The berm shall be maintained through the life of the well and after interim reclamation has been completed.
- Any water erosion that may occur due to the construction of the well pad during the life of the well will be corrected within two weeks and proper measures will be taken to prevent future erosion.

### Wildlife:

## Lesser Prairie-Chicken

Oil and gas activities 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, geophysical exploration other than 3-D operations, and 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. Normal vehicle use on existing roads will not be restricted. Exhaust noise from permanent engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

### Range:

### Temporary Fence Crossing Requirement

Where entry is granted across a fence line, the fence must be braced and tied off on both sides of the passageway with H-braces prior to cutting. A wire gate would be installed in the fence opening during infrastructure installation to prevent livestock from crossing the fence. The gate would be in place during construction inactivity. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Cattle Guard Requirement

Where entry is granted across a fence line for an access road, the fence must be braced and tied off on both sides of the passageway with H-braces prior to cutting. Once the work is completed, the fence will be restored to its prior condition with an appropriately sized cattle guard sufficient to carry out the project. Any new or existing cattle guards on the access route 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 cattle guards that are in place and are utilized during lease operations. Once the road is abandoned, the fence would be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

#### Livestock Watering Requirement

Structures that provide water to livestock, such as windmills, pipelines, drinking troughs, and earthen reservoirs, will be avoided by moving the proposed action

# **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-five (25) 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 both sides of the road.

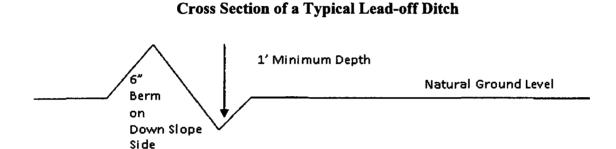
# Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

#### 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.



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: 400' + 100' = 200' lead-off ditch interval 4%

#### Cattleguards

An appropriately sized cattleguard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattleguards on the access road route 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 cattleguards that are in place and are utilized during lease operations.

#### **Fence Requirement**

Where entry is granted 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 fences.

### **Public Access**

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

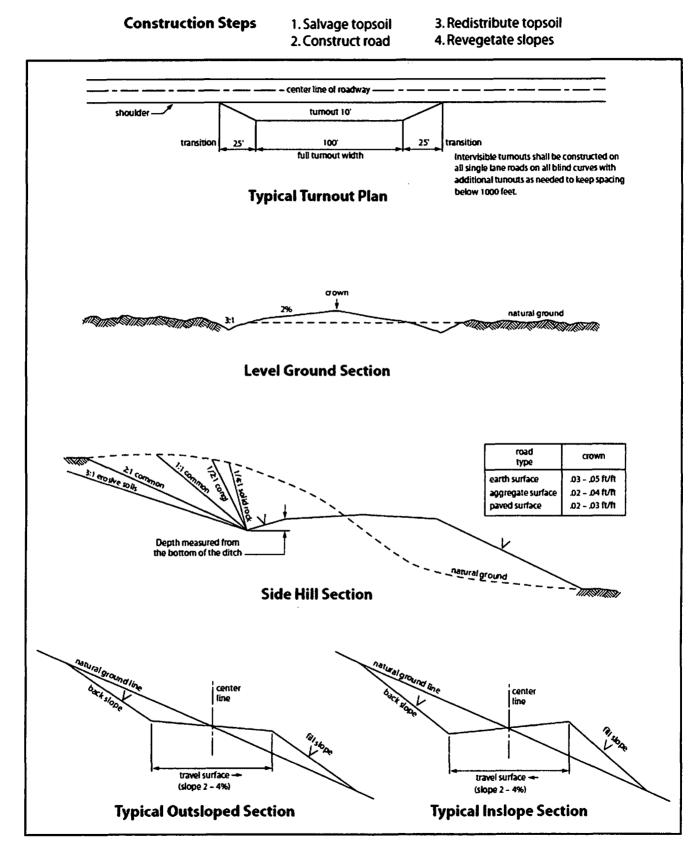


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

# Seed Mixture 2, for Sandy 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 <u>no</u> 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	l <u>b/acre</u>
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

\*Pounds of pure live seed:

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