Form 3160-5 (February 2005)

## UNITED STATES N.M. OII CONS. DIV-Dist. DEPARTMENT OF THE INTERIOR 1 W. Grand A

FORM APPROVED OMB No 1004-0137 Expires March 31, 2007

BUREAU OF LAND MANAGEME

#### SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals. NM-18031

| 3  | 2. 1 | 14101-10031                    |
|----|------|--------------------------------|
| 6. | If   | Indian, Allottee or Tribe Name |

Not Applicable

| SUBMIT IN TRIPLICATE - Other in                                   | Fig. 400 Apply Children and Apply 100 Apply | 7. If Unit or CA/Agreement, Name and/o  |
|---|---|---|
| 1. Type of Well   |   | Not Applicable                          |
| Oil Well X Gas Well Other   | NOV 29 2007   | 8. Well Name and No.                    |
| 2. Name of Operator   | OCD ADTECIA   | Huckabay TJ Federal #7                  |
| Yates Petroleum Corporation 025575                                | OCD-ARTESIA   | 9. API Well No.                         |
| 3a. Address   | 3b. Phone No. (include area code)   | 30-005-63875                            |
| 105 South Fourth Street, Artesia, NM 88210                        | (505) 748-1471  | 10. Field and Pool, or Exploratory Area |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Descrip | ption)  | Rock School House, Wolfcamp             |
| 660' FNL and 710' FWL, Unit D                                     |   | 11. County or Parish, State             |
| Section 17, T8S-R26E  |   | Chaves County, NM                       |

| 12. CHECK THE APPR  | OPRIATE BOX(ES) TO I   | NDICATE NATURE (  | OF NOTICE, REPORT, OR O   | THER DATA                                      |
|---|--|---|---|--|
| TYPE OF SUBMISSION  |  | TYPE  | OF ACTION   |  |
| Notice of Intent  Subsequent Report  Final Abandonment Notice | Acidize Alter Casing Casing Repair Change Plans Convert to Injection | Deepen Fracture Treat New Construction Plug and Abandon Plug Back | Production (Start/Resume) Reclamation Recomplete Temporarily Abandon Water Disposal | Water Shut-Off Well Integrity Other Extend APD |

Yates Petroleum Corporation wishes to extend the captioned well's APD expiration date for two (2) years to November 21, 2009. (C-144 attached)

Sources at Yates Petroleum Corporation have relayed information to me that they believe there will not be enough H2S anticipated from the surface to the Basement formation to meet the OCD's minimum requirements for the submission of a contingency plan per rule 118.

Thank you.

| 14. I hereby certif      | y that the foregoing is true and correct   |           |                                   |                                  |
|--------------------------|--|-----------|-----------------------------------|----------------------------------|
| Name (Printed            | '/Typed)   | Title     | *                                 | · · ·                            |
|                          | Debbie L. Caffall  |           | Regulatory Agent /                | Land Department                  |
| Signature                | Descho 2 Callo   | Date      | October 1                         | 9, 2007                          |
|                          |  | RFEDE     | RAL OR STATE USE                  |                                  |
| Approved by              | /S/ Angel Mayes  | La        | inds And Minerals                 | Data NOV& 1 5 2007               |
| certify that the applica | l, if any, are attached. Approval of this notice does not went holds legal or equitable title to those rights in the subject applicant to conduct operations thereon |           | Office  ROSWELL FIELD OF          | FICE                             |
| Title 19 H C C C         | action 1001 make it a crime for any person la  | a ourinal | y and willfully to make to any de | portment or agency of the United |

make it a crime for any person knowingly and willfully to make to any department,or agency of the salses fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

District 1

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

<u>District III</u>

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

<sup>1</sup> API Number

State of New Mexico

Energy, Minerals & Natural Resources Department

#### OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

<sup>2</sup> Pool Code

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

● MELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>3</sup> Pool Name

Date of Survey

Certificate Number

Signature and Seal of Professional Surveyor:

REFER TO ORIGINAL PLAT

| 3  | 5            |  | 97112                      |            |                         | Rock School H                             | Rock School House, Wolfcamp      |  |                               |  |
|--|--------------|--|----------------------------|------------|-------------------------|---|----------------------------------|--|-------------------------------|--|
| <sup>4</sup> Property Code   |              |  |                            |            | <sup>5</sup> Property N | 6 We                                      | <sup>6</sup> Well Number         |  |                               |  |
| 12385  |              |  |                            | ]          | HUCKABAY TJ             |   | 7                                |  |                               |  |
| <sup>7</sup> OGRID №.  |              |  |                            |            | <sup>8</sup> Operator N |   |                                  | 9 F  | <sup>9</sup> Elevation        |  |
| 02557  | 5            |  |                            | YATES      | S PETROLEUM             |   |                                  |  | 3686'                         |  |
|  |              |  |                            |            | <sup>10</sup> Surface I | ocation                                   |                                  |  |                               |  |
| UL or lot no.  | Section      | Township   | Range                      | Lot Idn    | Feet from the           | North/South line                          | Feet from the                    | East/West line   | County                        |  |
| D  | 17           | 88   | 26E                        |            | 660                     | NORTH                                     | 710                              | WEST   | CHAVES                        |  |
|  |              |  | 11 Bot                     | tom Hol    | e Location If           | Different From                            | Surface                          |  |                               |  |
| UL or lot no.  | Section      | Township   | Range                      | Lot Idn    | Feet from the           | North/South line                          | Feet from the                    | East/West line   | County                        |  |
| 12 Dedicated Acre  | s 13 Joint o | r Infill 14 Co   | nsolidation C              | ode 15 Ord | ler No.                 |   |                                  |  |                               |  |
| 320 - N/2  |              |  |                            |            |                         |   |                                  |  |                               |  |
| division.  | Ó            | <del>andre de l'action de l'ac</del> tion de l'action de l'actio | Charmount and intermediate |            |                         | Pace Cristians and Company of the Company | B 11                             | ERATOR CERTI   |                               |  |
|  | .009         |  |                            |            |                         |   | 11                               | at the information contained in<br>mowledge and belief, and that | =                             |  |
|  |              | NM-1   | 18031                      |            |                         |   | <b>3</b>   1                     | terest or unleased mineral in                                    | =                             |  |
| 710  | · :          |  |                            |            |                         |   | the proposed botto               | om hole location or has a righ                                   | nt to drill this well at this |  |
|  |              |  |                            |            |                         |   | 1 11                             | to a contract with an owner o                                    | -                             |  |
|  |              |  |                            |            |                         |   | I II                             | duntary pooling agreement of                                     | r a compulsory pooling        |  |
|  |              |  |                            |            |                         |   |                                  | entered by the division.   | 10/19/07                      |  |
|  |              |  |                            |            |                         |   | Signature                        | the J. Cal   | Date                          |  |
| A Section of the sect |              |  |                            |            |                         |   | Debbie L. Caffal<br>Printed Name | Ц  |                               |  |
|  |              |  |                            |            |                         |   | Regulatory Agen                  | nt.  |                               |  |
|  |              |  |                            |            |                         |   | Title                            |  |                               |  |
|  |              |  |                            |            |                         |   | ll .                             | EYOR CERTI   |                               |  |
|  |              |  |                            |            |                         |   | ' '                              | fy that the well locati<br>ted from field notes oj               |                               |  |
|  |              |  |                            |            |                         |   | 1                                | or, under my supervisi   |                               |  |
|  |              |  |                            |            |                         |   | •                                | and correct to the bes   |                               |  |
|  |              |  |                            |            |                         |   | ,                                |  | <i>y y</i>                    |  |
|  |              |  |                            | 1          | 4                       |   | II .                             |  |                               |  |

1025:12 Frènch Dr., Hobbs, 194 88240 DISTRICT II 611 South First, Artesia, NN 88210 'DISTRICT III

1000 Rio Brazos 'Rd., Aztes, NM 87410

DISTRICT IV 2040 South Pacheco, Santa Pe, NM 87805

Energy, Minerals and Natural Resources Department

Revised March 17, 1999 Instruction on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

#### OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

Jones RLS 3640

GENERAL SURVEYING COMPANY

|                |             |              | MELL LO                             | CATI        | ION   | AND ACR      | REA(  | GE DEDICATION                   | ON PLAT   |   |                       |
|----------------|-------------|--------------|-------------------------------------|-------------|-------|--------------|-------|---------------------------------|---|---|-----------------------|
| API            | Number      |              |                                     | Pool Co     | ode   |              |       |                                 | Pool Name                                       |   |                       |
|                |             |              | <u> </u>                            |             |       |              |       | WILDCAT                         |   | T = 2.5.5                                 |                       |
| Property       | Code        |              | Property Name HUCKABAY "TJ" FEDERAL |             |       |              |       | 7 Well M                        | Well Number                                     |   |                       |
| OGRID N        | <u> </u>    | <del> </del> |                                     | <del></del> |       | Operator     |       |                                 |   | Eleva                                     | tion                  |
| 025575         |             |              |                                     | Y.          | 'ATES | PETROLEUM    |       |                                 |   | 3686                                      | <del></del>           |
|                |             | . I          |                                     | <del></del> |       | Surface L    | .oca  | tion                            |   |   |                       |
| UL or lot No.  | Section     | Township     | Range                               | Lot I       | ldn   | Feet from th | be    | North/South line                | Feet from the                                   | East/West line                            | County                |
| D              | 17          | 85           | 26E                                 | İ           |       | 660          |       | NORTH                           | 710   | WEST                                      | CHAVES                |
|                | <del></del> |              | Bottom                              | Hole        | Loca  | ation If Di  | iffer | rent From Sur                   | ace   |   |                       |
| UL or lot No.  | Section     | Township     | Range                               | Lot I       | dn    | Peet from th | be    | North/South line                | Peet from the                                   | East/West line                            | County                |
|                |             |              | <u></u>                             | <u>L</u> ,  |       |              |       | -                               |   |   | ļ <sub></sub>         |
| Dedicated Acre |             | or Infill Co | onsolidation (                      | Code        | Orde  | er No.       |       |                                 |   |   |                       |
| 320 N/2        |             |              |                                     |             |       |              |       |                                 |   |   |                       |
| NO ALLO        | OWABLE 1    |              |                                     |             |       |              |       | NTIL ALL INTER<br>APPROVED BY 1 |   | EN CONSOLIDA                              | ATED                  |
|                |             | OK A         | NON-STAN                            | DAIGD       | 0111  | 1 IIAG DBI   | 514 2 | ATTROVED DT                     | The Division                                    |   |                       |
| 1              |             |              |                                     |             |       |              |       |                                 | OPERATO   | R CERTIFICAT                              | NOT                   |
| 3687 8         | 3696        |              |                                     | ĺ           |       |              |       |                                 | / hereby  | , certify the the in                      | formation             |
|                | ו "וֹר      |              |                                     |             |       |              |       |                                 |   | i is true and comple<br>ledge and belief. | ite to the            |
| 710            |             |              |                                     | MM          | -18   | 031          |       |                                 |   |   |                       |
| 3678           | 3690        |              |                                     |             |       |              |       |                                 | $\parallel \Omega \Omega \parallel$             | 4 D n                                     | $\boldsymbol{\wedge}$ |
| N.33*37'3      | 2.2         |              |                                     | }           |       |              |       |                                 | 1 Clus  | la 1. 1'                                  | lay                   |
| W.104°19'      | 34.3        |              |                                     | <u> </u>    |       |              | ļ     |                                 | Signature                                       |   |                       |
|                |             |              |                                     |             |       |              |       |                                 | Clifto<br>Printed Name                          | n R. May                                  |                       |
|                |             | ~            |                                     | 1           |       | -            |       |                                 |   | tory Agent                                | ,                     |
|                | ļ           |              |                                     | 1           |       |              |       |                                 | Title   | tory ngent                                |                       |
| •              | ļ           |              |                                     |             |       |              |       |                                 | 7/25/0  | 2   |                       |
|                |             |              |                                     |             |       |              |       |                                 | Date  |   |                       |
| <u>L</u>       | 1           | •            | •                                   |             |       | •            |       |                                 | SURVEYO   | R CERTIFICAT                              | ION                   |
|                |             |              |                                     |             |       |              |       |                                 | A hereby cortice                                | that the well locati                      |                       |
|                | ]           |              |                                     | ]           |       |              |       |                                 | on this plat wa                                 | s plotted from field                      | notes of              |
| ŀ              | İ           |              |                                     |             |       |              |       |                                 |   | made by me er<br>I that the same is       |                       |
|                | .           |              |                                     | ļ           |       |              |       |                                 |   | best of my belief                         |                       |
|                | -           |              |                                     |             |       |              |       |                                 | 11  |   |                       |
| Į              | į           |              |                                     |             |       |              |       |                                 | Data Sand                                       | <u>/03/2001</u>                           | <u></u>               |
| <u></u>        |             |              |                                     |             |       |              |       |                                 | Date Serveyor                                   | Book of C                                 |                       |
|                |             |              |                                     |             |       |              |       |                                 | Pyotodniome                                     | Mistre Porter                             |                       |
| 1              | }           |              |                                     |             |       |              |       |                                 |   | 10/m                                      |                       |
| 1              | İ           |              |                                     |             |       |              |       |                                 | <del>                                    </del> | 40 ) §                                    |                       |
| 1              |             |              |                                     |             |       |              |       |                                 |   | LOPM                                      |                       |

Avenue, Artesia, NM 88240
Avenue, Artesia, NM 88210
Azzos Road, Aztec, NM 87410
St. Francis Dr., Santa Fe, NM 87505

# State of New Mexico Energy Minerals and Natural Resources

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

Form C-144 March 12, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

105 South Fourth Street, Artesia, NM 88210

### Pit or Below-Grade Tank Registration or Closure

|   | e: <u>505-748-4376</u> e-mail address: <u>debbiec@y</u>  | pcnm.com   | -<br>-  |
|---|--|--|---|
| dress: 104 South 4th Street, Artesia, New Mexico 88210  |  |  | -   |
| cility or well name: Huckabay TJ Federal #7 API #:  |  |  |   |
| unty: Chaves Latitude Longitude   | NAD: 1927 [ ] 1983 [ ] Surface Owner:  | Federal C State                                      | Private   Indian                                |
|   | Below-grade tank   |  | DEOGNES   |
| pe: Drilling 🔀 Production 🗌 Disposal 🗍  | Volume:bbl Type of fluid:  |  | RECEIVED  |
| Workover    Emergency   | Construction material:   |  | OCT 18 2004                                     |
| ned 🖔 Unlined 🗌   | Double-walled, with leak detection? Yes If   | not, explain why not.                                | NUN:ARTESIA                                     |
| ner type: Synthetic Thickness 12 mil Clay Volume  | ***************************************  | ······································               | OOD WHI ESIA                                    |
| bbl   |  |  |   |
| meth to proving symbol (sympton) distance from bottom of it to account high   | Less than 50 feet  | (20 points)  |   |
| pth to ground water (vertical distance from bottom of pit to seasonal high ster elevation of ground water.)   | 50 feet or more, but less than 100 feet  | (10 points)  |   |
| ind elevation of ground water.)   | 100 feet or more   | ( 0 points)  |   |
| allhood materials are a first the 200 G to G  | Yes  | (20 points)  |   |
| ellhead protection area: (Less than 200 feet from a private domestic  | No   | ( 0 points)  |   |
| iter source, or less than 1000 feet from all other water sources.)  |  |  |   |
| stance to surface water: (horizontal distance to all wetlands, playas,  | Less than 200 feet   | (20 points)  |   |
| igation canals, ditches, and perennial and ephemeral watercourses.)   | 200 feet or more, but less than 1000 feet  | (10 points)  |   |
| igation canais, diches, and pereiniar and epiterizar watercourses.)   | 1000 feet or more  | ( 0 points)  |   |
|   | Ranking Score (Total Points)   | 0  |   |
| this is a pit closure: (1) attach a diagram of the facility showing the pit's   | relationship to other equipment and tanks. (2) Ind   | icate disposal location                              |   |
| ssite Offsite If offsite, name of facility  |  |  |   |
| ite. (4) Groundwater encountered: No 🗌 Yes 📋 If yes, show depth belo  |  |  |   |
| agram of sample locations and excavations.  | yw ground surface it. and attach san   | npic results. (3) remor                              |   |
| reby certify that the information above is true and complete to the best of n/will be constructed or closed according to NMOCD guidelines                       | my knowledge and belief. I further certify that to general permit , or an (attached) alternative           | he above-described p<br>OCD-approved plan            | it or below-grade tank has                      |
| nted Name/Title Robert Asher/Regulatory Agent   | Signature  |  |   |
| ir certification and NMOCD approval of this application/closure does not straight endanger public health or the environment. Nor does it relieve the illations. | relieve the operator of liability should the contents operator of its responsibility for compliance with a | of the pit or tank conta<br>ny other federal, state, | aminate ground water or<br>or local laws and/or |
| e: OCT 2 1 2004   | \QQ  |  |   |
| ited Name/Title   | Signature  |  |   |

## EXHIBIT A

11/8/07

OPERATOR: Yates Petroleum Corporation

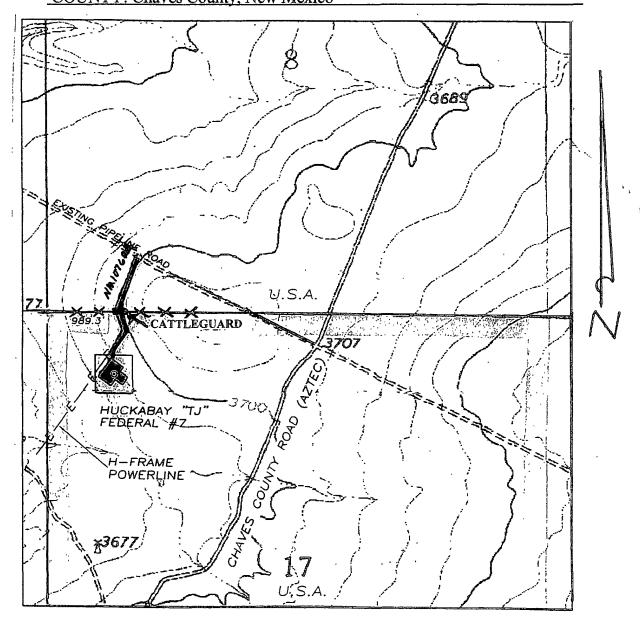
LEASE NO: NM-18031

WELL NAME & NO.: Huckabay "TJ" Federal #7

LOCATION: Section 17 T. 8 S., R. 26 E., N.M.P.M.

QUARTER/QUARTER & FOOTAGE: NW¼NW¼ - 660' FNL & 710' FWL

COUNTY: Chaves County, New Mexico



# PECOS DISTRICT - RFO CONDITIONS OF APPROVAL

11/8/07

OPERATORS NAME: YATES Petroleum Corporation

LEASE NO.: <u>NM-18031</u>

WELL NAME & NO: Huckabay "TJ" Federal #7

SURFACE HOLE FOOTAGE: 660' FNL & X710' FWL

LOCATION: Section 17, T. 8 S., R. 26 E., NMPM

COUNTY: Chaves County, New Mexico

#### **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.

#### I. 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).

#### II. 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.

#### ---- HI. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations (access road and/or well pad). 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.

#### IV. CONSTRUCTION

#### A. NOTIFICATION:

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Roswell Field Office at (505) 627-0247 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 Application for Permit to Drill and Conditions of Approval on the well site and they shall be made available upon request by the Authorized Officer.

#### B. TOPSOIL:

The operator shall stockpile the topsoil of the well pad. The topsoil to be stripped is approximately 6 inches in depth. The topsoil shall not be used to backfill the reserve pit and will be used for interim and final reclamation. The soil shall be stockpiled on the southwest corner of the well pad.

#### C. RESERVE PITS:

The reserve pit shall be constructed and closed in accordance with the NMOCD rules.

The reserve pit shall be constructed 150' X 175' on the SOUTHEAST side of the well pad.

The reserve pit shall be constructed, so that upon completion of drilling operations, the dried pit contents shall be buried a minimum depth of three feet below ground level. Should the pit content level not meet the three foot minimum depth requirement, the excess contents shall be removed until the required minimum depth of three feet below ground level has been met. The operator shall properly dispose of the excess contents at an authorized disposal site.

The reserve pit shall be constructed and maintained so that runoff water from outside the location is not allowed to enter the pit. The berms surrounding the entire perimeter of the pit shall extend a minimum of two (2) feet above ground level. At no time will standing fluids in the pit be allowed to rise above ground level.

The reserve pit shall be fenced on three (3) sides during drilling operations. The fourth side shall be fenced immediately upon rig release.

#### D. FEDERAL MINERAL MATERIALS PIT:

If the operator elects to surface the access road and/or well pad, mineral materials extracted during construction of the reserve pit may be used for surfacing the well pad and access road and other facilities on the lease.

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. Call the Roswell Field Office at (505) 627-0236.

#### 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 need.

#### 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 thirty (30) 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.

#### 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:

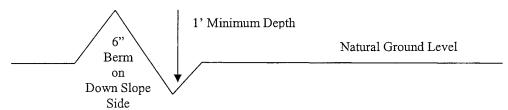
# 

#### 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 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: 
$$\underline{400'} + 100' = 200'$$
 lead-off ditch interval  $4\%$ 

#### Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). A cattleguard would be constructed and installed at the fence crossing in the NE¼NW¼NW¼ of Sec. 17 - T. 8 S. - R. 26 E..

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.

#### **SPECIAL REQUIREMENT(S)**

*Cultural Resources:* An archeological site (LA 136496) shall be avoided during road construction. A flagged road re-route shall be followed to the west of this site (See Exhibit A).

Figure 1 - Cross Sections and Plans For Typical Road Sections

