New Merico Oll Conservation Division, District II 1625 N. French Drive Hobbs, NM 19200

| Form 3160-3 (August 1999) | UNITED STATE | FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000 | | | |
|--|---|---|--|--|----------------------------|
| | DEPARTMENT OF THE I BUREAU OF LAND MANA | Lease Serial No. NMNM106916 If Indian, Allottee or Tribe Name | | | |
| APP | LICATION FOR PERMIT TO D | | | | |
| 1a. Type of Work: | DRILL REENT | | 7. If Unit or CA Agreemen | t, Name and No. | |
| lb. Type of Well: | Oil Well 🚨 Gas Well 🚨 Other | Single Zone | Multiple Zone | 8. Lease Name and Well N East Livingsto | on '31' Federal |
| 2. Name of Operator Echo Productio | on, Inc. and particular | | | 9. API Well No. | 1.00 |
| 3a. Address PO Box 1210, (| Graham, TX 76450 | 3b. Phone No. (include area (940) 549-3292 | | 10. Field and Pool, or Explo Livingston Ric | ratory dge; Delaware, S |
| 4. Location of Well (Rep | ort location clearly and in accordance wit | h any State requirements.*) | | 11. Sec., T., R., M., or Blk. | and Survey or Area |
| At surface 660 At proposed prod. zon | FNL & 330' FEL | 1-14 | tion of the second seco | Sec 31 T22S R | 32E |
| 14. Distance in miles and d | irection from nearest town or post office* of Carlsbad, New Mexi | co | | 12. County or Parish Lea | 13. State NM |
| 15. Distance from proposed location to nearest property or lease line, 1 (Also to nearest drig. u | _{ft.} 330' | 16. No. of Acres in lease 640' | 17. Spac 40 | ing Unit dedicated to this well | |
| 18. Distance from proposed to nearest well, drilling, applied for, on this lease | , completed, | 19. Proposed Depth 8800 | 20. BLM rot | l/BIA Bond No. on file ary | |
| 21. Elevations (Show whe 3538 GR | ther DF, KDB, RT, GL, etc.) | 22. Approximate date work 9/01/03 | k will start* | 23. Estimated duration | |
| | | 24. Attachments | | | |
| Well plat certified by a r A Drilling Plan. A Surface Use Plan (if | accordance with the requirements of Onsi registered surveyor. the location is on National Forest Systems that he appropriate Forest Service Office). | 4. Bond to Item 20 5. Operato 6. Such of | o cover the operat above): or certification. | his form: ions unless covered by an exist | |
| 25. Signature | 20x | Name (Printed/Type Tom Golder | *** | Date | • |
| Title Operations I | Manager | | | | |
| Approved by (Signature) | /S/ JOE G. LARA | Name (Printed/Type | / S/ JOE G | LARA Dat | AUG 1 9 2003 |
| FIELD N | MANAGER | | | FIELD OFFICE | = |
| Application approval does n operations thereon. Conditions of approval, if ar | ot warrant or certify the the applicant hold | s legal or equitable title to those | | ct lease which would entitle the ROVAL FOR 1 | applicant to conduct YEAR |
| | ol and Title 43 U.S.C. Section 1212, maker fraudulent statements or representations a | | | y to make to any department or | agency of the United |

*(Instructions on reverse)

Carlabad Controlled Wood Fige Stario NO. POOL CODE___

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

EFF. DATE 8/25

State of New Mexico

DISTRICT I P.G. Box 1986, Hobbs, NM 88241-1980

Energy, Minerels and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

P.O. Box 2088

DISTRICT III 1000 Rio Braxos Rd., Aztec, NM 87410 Santa Fe, New Mexico 87504-2088

| DISTRICT IV P.O. BOX 2008, SANTA FE, N.M. 8760 | 14-2068 | WELL LOCATION AND | ACREAGE DEDICATION PLA | r c | AMENDED REPORT |
|---|---------|-------------------|------------------------|------------|----------------|
| API Number | | Pool Code | Pool N | ame | |
| 30-025-363 | 380 | 3938D | SE Livingston Ridge | e Del | aware |
| Property Code | | | erty Name | | Well Number |
| 32583 | | EAST LIVINGST | ON "31" FEDERAL | | 1 |
| OGRID No. | | | ator Name | | Klevation |
| 16742 | | ECHO PROI | DUCTION, INC. | | 3538' |

Surface Location

| ١ | UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| | Α | 31 | 22-S | 32-E | | 660' | NORTH | 330' | EAST | LEA |

Bottom Hole 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 |
|--------------|-----------|-------------|---------------|----------|---------------|------------------|---------------|----------------|--------|
| Dedicated Ac | res Joint | r Infill Co | nsolidation (| Code Ore | der No. | | | | |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

| O1 | A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION | |
|-------------------|---|---------------------------|
| LOT 1 | OPERATOR CERTIFICATION I hereby certify the the informational herein is true and complete to best of my knowledge and belief. DETAIL | ration |
| 45.09 AC LOT 2 | SEE DETAIL Signature Tom Golden Printed Name Operations Manager Title 8/11/03 | |
| 45.15 AC LOT 3 | GEODETIC COORDINATE NAD 27 NME SURVEYOR CERTIFICATION I hereby certify that the well location a con this plat was plotted from field not actual surveys made by me or und | shown les of ler my |
| 45.21 AC | Signature (a Seal of Supervir.) | AWB |
| 45.27 AC | PROFESSION PROFESSION | 12641 |

HOLE PROGNOSIS FORM 3160-3 APPLICATION FOR PERMIT TO DRILL ECHO PRODUCTION, INC. EAST LIVINGSTON '31' FEDERAL #1 660' FNL & 330' FEL SECTION 31-22S-32E LEA COUNTY, NEW MEXICO

In conjunction with Form 3160-3 Application for Permit to Drill, Echo Production, Inc. submits the following items in accordance with Onshore Oil and Gas Order Numbers 1 and 2, and all other applicable federal and state regulations.

1. Geological Name of Surface Formation:

Permian

2. Estimated Tops of Geologic Markers:

| Rustler | 750' | Cherry Canyon | 5650' |
|--------------|--------------|---------------------|-------|
| Top of Salt | 900 , | Brushy Canyon | 7100' |
| Base of Salt | 4260' | Lower Brushy Canyon | 8150' |
| Lamar | 4550' | Bone Spring | 8450' |
| Bell Canyon | 4600' | Avalon Sand | 8700' |

3. Estimated Depths of Anticipated Fresh Water, Oil or Gas:

| Surface | 150' | Fresh Water |
|--------------------|-------------|-------------|
| Delaware | 7100'-8450' | Oil or Gas |
| Bone Spring | 8450' | Oil or Gas |
| Avalon Sand | 8700' | Oil or Gas |

No other formations are expected to produce oil, gas or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 13 3/8" casing at 800' and circulating cement back to surface. Any shallower zones above TD that contain commercial quantities of oil and/or gas will have cement circulated across the zone.

4. Casing Program:

| Hole Size | Interval | OD Csq | Weight, Grade, JT. Cond, Type |
|-----------|----------|---------|-------------------------------|
| 17 ½" | 0-800' | 13 3/8" | 48#, H-40, ST&C |
| 11" | 0-4550' | 8 5/8" | 24# & 32#, J-55, S-80, LT&C |
| 7 7/8" | 0-TD | 5 ½" | 17# |

5. Cementing Program:

Surface Casing:

13 3/8" casing will be set at approximately 800' and cemented with approximately 670 sacks of Premium Plus cement with 2% CaCl and additives. The amount may be adjusted depending upon the fluid caliper results, however, cement in sufficient quantities to circulate will be utilized.

Intermediate Casing:

8 5/8" casing will be set at approximately 4550' and cemented with approximately 1300 sacks of 35/65 Poz "c" with additives. The amount may be adjusted dependent upon fluid caliper results, however, cement in sufficient quantities to circulate will be utilized.

Production Casing:

If appropriate, 5 ½" casing will be set at Total Depth. Echo will utilize cement in sufficient quantities to tie back 600' above any Delaware pay. Well will be cemented w/appropriate number of sacks of 50/50 POZ 'H' w/ additives and 100 sacks of 'C' Neat.

6. Minimum Specifications for Pressure Control:

The blowout preventer equipment (BOP) show in Exhibit "A" will consist of a double ram-type (3000 psi WP) preventer and a bag-type (hydril) preventer (3000 psi WP). Both units will be hydraulically operated and the ram-type preventer will be equipped with blind rams on top and 4 ½" drill pipe rams on bottom. Both BOP's will be nippled up on the 13 3/8" surface casing and used continuously until TD is reached. All BOP's and accessory equipment will be tested to 1000 psi before drilling out of surface casing. Before drilling out of intermediate casing, the ram-type BOP and accessory equipment will be tested to 3000 psi and the hydril to 70% of rated working pressure (2100 psi).

7. Types and Characteristics of the Proposed Mud System:

O' to 800' Fresh water with lime, gel paper and fiber will be used for

drilling purposes. Weight 8.4 - 8.6, Vis 29-36, PH > 8.

800' to 4550' Saturated brine water purchased from commercial sources

with paper and fiber will be utilized. Weight 8.6-10.5, Vis 32-

34, Ph 10.

4700' to 8800' Brine and fresh water purchased from commercial sources

with gel and starch, 3% KCl, 20-50 PPM Nitrates, Cl 30-75,000, caustic for control and paper for seepage will be utilized. Weight 8.5 – 8.9, Vis 29-34, Ph 9-10, WL 20-50.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be available at the well site at all times.

8. Auxiliary Well Control and Monitoring Equipment:

- A. A kelly cock will be kept in the drill string at all times.
- B. A full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

9. Testing, Logging and Coring Program:

A Mudlogging unit will be on location from top of Delaware formation to TD. Mudlogging unit will be employed from approximately 4400' to 8800' (Total Depth).

If indicated, AIT-GR, CNL-LDT-GR logs and Caliper logs will be run at TD. The Gamma Ray AIT will be run from TD back to the intermediate casing. The Gamma Ray Compensated Neutron Log will be run from TD back to surface. If indicated, Echo may elect to run rotary sidewall cores from selected intervals from approximately 7100' to 8800' dependent upon logging results.

10. Abnormal Conditions, Pressures, Temperatures and Potential Hazards:

No abnormal pressures or temperatures are anticipated. Anticipated bottomhole pressure is 3600# PSI.

Loss of circulation is possible in the Delaware section of the hole, however, no major loss circulation zones have been reported in offsetting wells.

Six wells have been drilled and completed in the immediate area. To date, Hydrogen Sulfide has not been encountered. However, if Hydrogen Sulfide is encountered, a Hydrogen Sulfide training and appropriate breathing apparatus is located on site. If necessary, the well can be shut in utilizing the blow out preventer and other equipment to prevent the migration of Hydrogen Sulfide to the surface.

11. Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is September 1, 2003. Once commenced, the drilling operation will be completed in approximately 20 days. If the well is productive, an additional 15 days will be required for completion and testing before a decision is made to install permanent facilities. In conjunction with Form 3160-3, Application for Permit to Drill, Echo Production, Inc submits the following items in accordance with Onshore Oil and Gas Order Numbers 1 and 2, and all other applicable federal and state regulations.

SURFACE USE AND OPERATING PLAN FORM 3160-3 APPLICATION FOR PERMIT TO DRILL ECHO PRODUCTION, INC. EAST LIVINGSTON '31' FEDERAL #1 660' FNL & 330' FEL SECTION 31-22S-32E LEA COUNTY, NEW MEXICO

Submitted with Form 3160-5, Application For Permit to Drill covering the above proposed well. The purpose of the plan is to describe the location, the proposed construction activities, the operations, the surface disturbance involved, and the rehabilitation of the surface after completion of proposed well so that an appraisal can be made of the environment affected by the proposed well.

1. Existing Roads:

- A. The Well Location and Acreage Dedication Plat for the proposed wellsite was staked by Gary Eidson, Registered Professional Surveyor, Carlsbad, New Mexico and is attached.
- B. All roads to the location are shown on Exhibit "B". The existing roads are adequate for travel during drilling and production operations and no new roads will be required.
- C. Directions to location: From Carlsbad; go east to county road 1 mile west of Lea and Eddy County line. Go north 7 miles and turn east on lease road ±2 miles to location.
- D. Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as operations continue on the lease.

2. Proposed Access Road:

No additional access roads will be required.

3. Location of Existing Wells:

All existing wells within a one mile radius of proposed well are show on Exhibit "C".

4. Location of Existing and/or Proposed Facilities:

In the event the proposed well proves to be productive Echo Production, Inc. will furnish plats showing "on well pad" facilities and "off well pad" facilities (if necessary) by Sundry Notice prior to construction.

5. Location and Type of Water Supply:

The proposed well will be drilled with a combination of brine and fresh water mud systems as outlined in the Hole Prognosis. The water will be purchased from commercial water stations in the area and trucked to the location by transport over the existing access roads as indicated on Exhibit "B". No water well will be drilled on the location.

6. Source of Construction Materials:

All caliche required for construction of the drill pad will be obtained from a BLM approved caliche pit. All roads and pads will be constructed of 6" rolled and compacted caliche.

7. Methods of Handling Water Disposal:

- A. Drill cuttings not retained for evaluation purposes will be disposed into the reserve pit.
- B. Drilling fluids will be contained in steel mud tanks. The reserve pit will contain any excess drilling fluid or flow from the well during drilling, cementing and completion operations. The reserve pit will be an earthen pit approximately 150' x 150' x 6' deep and fenced on three sides prior to drilling. The fourth side will be fenced immediately following rig removal. The reserve pit will be plastic lined (5-7 mil thickness) to minimize loss of drilling fluids and saturation of the ground with brine water. Drilling fluids will be allowed to evaporate in the reserve pits until dry.
- C. Water produced from the proposed well during completion may be disposed into the reserve pit or a steel tank (depending upon rates). After the proposed well is permanently placed on production, produced water will be collected in a fiberglass tank and piped to an approved disposal system. Produced oil will be collected in steel tanks until sold.
- D. A portable chemical toilet will be provided on the location for human waste during the drilling and completion operations. Compliance with current laws and regulations will be followed pertaining to the disposal of human waste.
- E. Garbage and trash produced during drilling or completion operations will be disposed in a separate trash trailer on location. All waste material will be contained to prevent scattering by the wind. All water and fluids will be disposed of into the reserve pit. Salts and other chemicals produced during drilling or testing will be disposed into the reserve pit. No toxic waste or hazardous chemicals will be produced by the operation.

F. After the rig is moved out and the proposed well is either completed or abandoned, all waste materials will be removed within 30 days. No adverse materials will be left on the location. The reserve pit will be completely fenced and kept closed until dried. When the reserve pit is dry enough to breakout and fill and, as weather permits, the unused portion of the well site will be leveled and reseeded as per BLM specifications. Only that portion of the pad required for production operations will remain in use. In the event of a dry hole, only a dry hole marker will remain.

8. Ancillary Facilities:

No airstrip, campsite or other facility will be built as a result of the operations of the proposed well.

9. Well Site Layout:

- A. The drill pad layout is shown on Exhibit "D". Dimensions of the pad, pits and location of major rig components are shown. Top soil, if available, will be stockpiled per BLM specifications as determined at the on-site inspection. Since the pad is fairly level no major cuts will be required.
- B. Planned orientation for the rig and associated drilling equipment, reserve pit, pipe racks, turn-around and parking areas, and access road are shown on Exhibit "D". No permanent living facilities are planned, however, a temporary foreman/toolpusher's trailer will be on location during drilling operations.

SURFACE USE AND OPERATING PLAN EAST LIVINGSTON '31' FEDERAL #1

C. The reserve pit will be lined with a high quality plastic sheeting (5-7 mil thickness).

10. Plan for Restoration of the Surface:

- A. Upon completion of the proposed operations, should the proposed well be abandoned, the pit area, after allowed to dry, will be broken out and leveled. The original topsoil will be returned to the entire location, and leveled and contoured to the original topography as closely as possible.
 - All trash, garbage and pit lining will be removed in order to leave the location in an aesthetically pleasing condition. All pits will be filled and the location leveled with 120 days after abandonment.
- B. The disturbed area will be revegetated and reseeded during the proper growing season with a seed mixture of native grasses as recommended by the BLM.
- C. Three sides of the reserve pit will be fenced prior to and during drilling operations. At the time the rig is removed, the reserve pit will be fence on the rig (fourth) side to prevent livestock or wildlife from becoming entrapped. The fencing will remain in place until the pit area is cleaned and leveled. No oil will be left on the surface of the fluid in the pit.
- D. Upon completion of the proposed operations, should the proposed well be productive, the reserve pit area will be treated as outlined above within the same prescribed time. The caliche from an area of the original drillsite not needed for production operations or facilities will be removed and used for construction of thicker pads or firewalls for the tank batter installation. Any additional caliche required for facilities will be obtained from a BLM approved caliche pit. Topsoil removed from the drillsite will be used to recontour the pit area and unused portions of the drill pad to the original natural level and reseeded as per BLM specifications.

PAGE 6

11. Surface Ownership:

The wellsite and lease are located entirely on Federal surface.

12. Other Information:

- A. The topography around the wellsite is rolling terrain with vegetation of sagebrush and native grass. The vegetation cover consists of prairie grasses and flowers. Wildlife in the area includes those typical of semiarid desert land.
- B. The soils are clayey sand over caliche base.
- C. There is no permanent or live water in the immediate area.
- D. There are no residences and other structures in the area.
- E. The land in the area is used primarily for grazing purposes.
- F. An archaeological study is attached.

13. Lessee's and Operator's Representative:

Tom Golden PO Box 1210 Graham, Texas 76450

Phone Number: (940) 549-3292 - office

(940) 521-1045 -- cellular (940) 549-3690 -- home

14. Certification:

I hereby certify that I, or persons under my direct supervision have inspected the proposed drillsite which currently exists; that the statements made in the plan are to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by Echo Production, Inc. and its contractors and sub-contractors in conformity with the plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 USC 1001 for the filing of a false statement.

Tom Golden
Operations Manager

DATE: July 16, 2003

EXHIBIT "A"

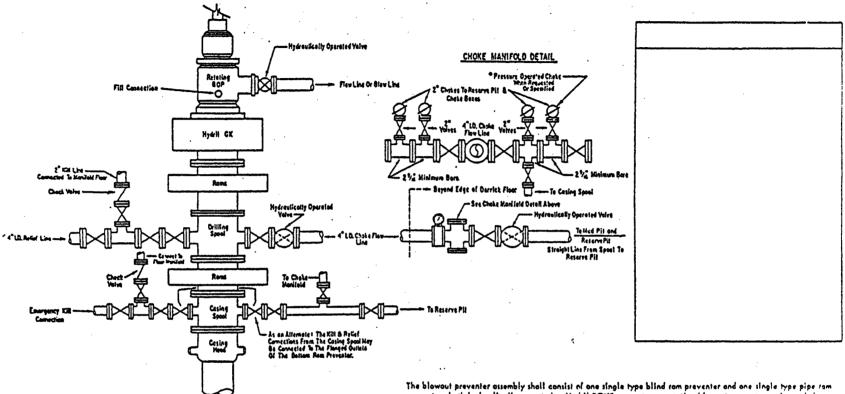
EQUIPMENT DESCRIPTION

All equipment should be at least 3,000 psi WP or higher unless otherwise specified.

- 1. Bell nipple
- Hydril bag type preventer 2.
- 3. Ram type pressure operated blowout preventer with blind rams.
- Flanged spool with one 3"and one 2"(minimum) outlet. 4.
- 2"(minimum) flanged plug or gate valve. 5.
- 2"x 2"x 2"(minimum) flanged. 6:
- 3"gate valve. 7.
- Ram type pressure operated blowout preventer with pipe rams. 8.
- Flanged type casing head with one side outlet. 9.
- 2" threaded (or flanged) plug or gate valve. Flanged on 5000# WP, 10. threaded on 3000# WP or less.
- 3" flanged spacer spool. 11.
- 3"x 2"x 2"x 2" flanged cross. 12.
- 13. 2" flanged plug or gate valve.
- 14. 2" flanged adjustable choke.
- 2" threaded flange. 15.
- 2" XXH nipple. 16.
- 17. 2" forged steel 90'Ell.
- 18. Cameron (or equal) threaded pressure gauge.
- 19. Threaded flange.
- 20. 2" flanged tee.
- 21. 2" flanged plug or gate valve.
- 2 1/2" pipe, 300' to pit, anchored.
 2 1/2" SE valve. 22.
- 23.
- 2 1/2" line to steel pit or separator. 24.

NOTES:

- 1). Items 3,4 and 8 may be replaced with double ram type preventer with side outlets between the rams.
- 2). The two valves next tho the stack on the fill and kill line to be closed unless drill string is being pulled.
- Kill line is for emergency use only. 3). This connection shall not be used for filling.
- 4). Replacement pipe rams and blind rams shall be on location at all times.
- 5). Only type U, LSW and QRC ram type preventers with secondary seals are acceptable for 5000 psi WP and higher BOP stacks.
- Type E ram-type BOP's with factory modified side outlets may be 6). used on 3000 psi or lower WP BOP stacks.



3000 # PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP

The blowout preventer assembly shall consist of one single type blind ram preventer and one single type pipe ran preventer, both hydraulically operated; a Hydril "OK" preventer; a notating blowout preventer; valves; chokes and connections, as illustrated, if a toperad drill string is used, a ram preventer must be provided for each size of drill pipe. Casing and tubing rams to fit the preventers are to be available as needed. If correct in size, the flanged outlets of the ram preventer may be used for connecting to the 4-inch 1, D. choke flow line and 4-inch 1, D. relief line, except when air or gas drilling. All preventer connections are to be open-face. Ilonged.

Minimum operating equipment for the preventers and hydroulically operated valves shall be as follows: (1)Multiple pumps, driven by a continuous source of power, capable of fluid charging the total occumulator valume from the nitragen pracharge pressure to its rated pressure within ______minutes. Also, the pumps are to be connected to the

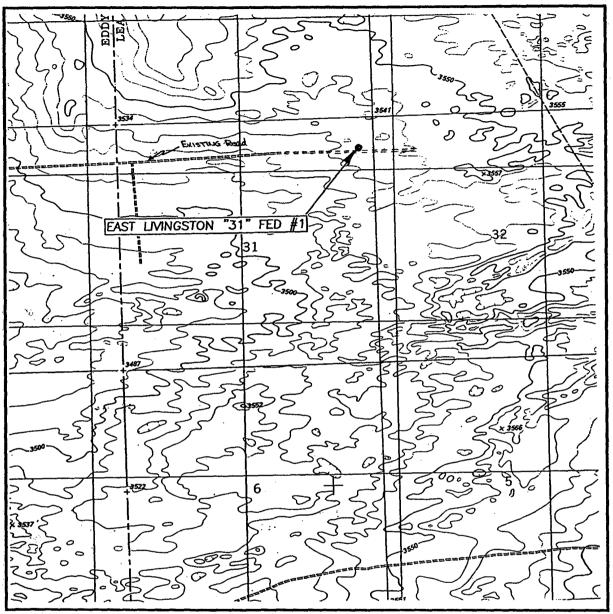
The closing menifold and remote closing manifold shall have a separate control for each pressure-operated device. Controls are to be labeled, with control handles indicating open and closed positions.

A pressure reducer and regulator must be provided for operating the Hydril preventer. When requested, a second prossure reducer shall be available to limit operating fluid pressures to rom preventen.

Guil Legion No. 38 hydraulic all, an equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

The choke menifold, choke flow line, relief line, and choke lines are to be supported by metal stands and adequately anchored. The choke flow line, relief line, and choke lines shall be constructed as streight as possible and without sharp bands. Easy and safe occess is to be maintained to the choke manifold. If deemed necessary, walkways and stainways shall be erected in and around the choke manifold. All valves are to be selected for aperation in the presence of all, gas, and drilling fluids. The choke flow line valves and relief line valves connected to the drilling spool and all ram syne preventers must be equipped with stem extensions, universal joints if needed, and hand wheels which are to extend beyond the edge of the detrick substructure. All other valves are to be equipped with stem extensions, universal joints if needed, and hand wheels which are to extend beyond the edge of the detrick substructure. All other valves are to be equipped with stem extensions.

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

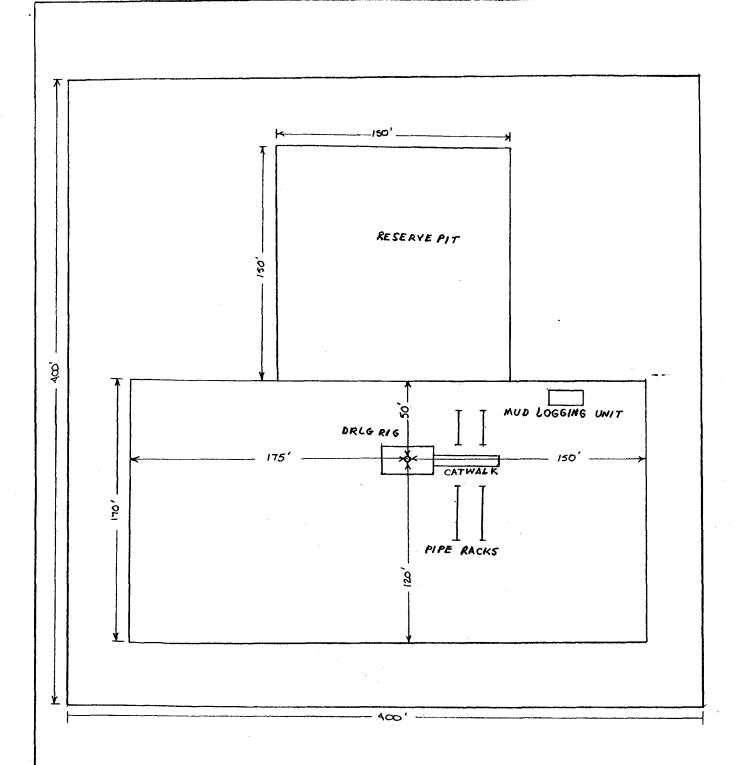
CONTOUR INTERVAL: 10' BOOTLEG RIDGE, N.M.

| SEC. 31 TWP. 22-S RGE. 32-E |
|---|
| SURVEY N.M.P.M. |
| COUNTYLEA |
| DESCRIPTION 660' FNL & 330' FEL |
| ELEVATION3538' |
| OPERATOR ECHO PRODUCTION, INC. |
| LEASE FAST LIVINGSTION "31" FEDERA |
| U.S.G.S. TOPOGRAPHIC MAP BOOTLEG RIDGE, N.M. |

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117

EXHIBIT B

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EXHIBIT D

East Livingston '31' Federal #1 660' FNL & 330' FEL Section 31-T22S-R32E

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

Operator Name: ECHO PRODUCTION, INC.

Street or PO Box: PO Box 1210 City, State: Graham, Texas

Zip Code: 76450

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

Lease No.: NM NM106916 (East Livingston '31' Federal)

Legal Description of Land: All of Sec 31 T22S R32E except SW/4 of SW/4

Formation(s) (if applicable): Delaware

Bond Coverage: (State if individually bonded or another's bond)

Statewide Bond - Echo Production, Inc.

BLM Bond File No.: NM 2692

Authorized Signature:

Title: Operations Manager

Date: July 16, 2003

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| BLM Rel. 8-20 10 1. (For BLM U | | 2. (For BLM Use) | | 3 NMC | CRIS Number: 84189 | |
| BLM Report N | | Reviewers | | J. 141010 | M3 Number: 04 109 | |
| DEM Report | 10. | Initials/Date | | Ì | | |
| | | Accepted () | Rejected () | | | |
| 4 Type of De | | Negative (yes) | Kejecteu () | Positi | vo () | |
| 4. Type of Rep | | vegative (yes) | | FUSILI | ve() | |
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| | The Food | A Class III Culti | ural Resource Inve | intory for | II I cootion | |
| A | I ne Easi 2º A | Livingston "31" Fed | derai Number i Pi | oposeu vve | d Associated Access Road | |
| And the Eas | it Livingston | | | | u Associateu Access Roau | |
| Section 31, T.22S, R.32E, Lea County, New Mexico | | | | | | |
| Author(s): Ric | hard W Walte | | ounty, INEW MEXICO | | | |
| 6. Fieldwork | | | 7. Report Date: | 07- July-20 | <u> </u> | |
| | | ss: Southern New I | | | | |
| | | Bent, New Mexico | | icai Sei vice | .s, 111C. | |
| Direct Charge | | | 00314 | | | |
| Field Personn | | | | | | |
| Phone Number | | | | | | |
| 9. Cultural Re | | | 10. Consultant | Report Nu | mber: | |
| 145-2920-03-L | | it Humber. | SNMAS-03NM- | | | |
| | | Production, Inc. | 12. Customer F | | nber: | |
| | | m Golden/Joe | 12. Gustomor i | rojoot riun | | |
| Janica | iidividdai c | iii ooldoriiooo | | | | |
| Address: Post | Office Box 12 | 210 | | | | |
| Graham, Texa | | - 10 | | | | |
| Phone Number | | 3292 | | | | |
| 13. Land | BLM | State | Private | Other | Total | |
| Status | | | | | | |
| a. Area | 19.2 | | | | 19.2 | |
| Surveyed | | | | | | |
| (acres) | | | | | | |
| b. Area of | 8.3 | | | | 8.3 | |
| Effect | | | | | | |
| (acres) | | | | | | |
| 14. Linear | | Length: 763 ft | | Width: 150 | O ft | |
| | | | | | | |
| 15. Location (| Map[s] Attacl | hed) | | | | |
| | | • | | | | |
| a. State: New | Mexico | | | | | |
| b. County: Le | | | | | | |
| c. BLM Office | | | | | | |
| d. Nearest Cit | | | | | | |
| | | s, R.32E, Sec(s) 31: | | | | |
| Well Pad 1/4s | for East Livir | ngston "31" Feder | al Number 1: E ½ | , NE ¼, NE | 1/4 | |
| Well Pad 1/4s | for East Livir | ngston "31" Feder | al Number 2: E ½ | , SE ¼, NE | 1/4 | |
| | | igston "31" Federa | al Number 2: SE 3 | 4, NE ½, NE | E ¼; NE ¼, SE ¼, NE ¼ | |
| f. Well Pad Fo | | | 0 PM | · - . | | |
| | | ral Number 1: 660 | | | | |
| Cast Livingsto | on "31" Fedei | ral Number 2: 1,98 Date(S), and Code | υπ FNL and 330 f | FEL | | |
| y. uouo /.oˈ// | nad Name(S). | TRIAL STATE OF COMM | ロロマ せんへけんへ ピライベ | | | |
| 1 | | bate(o), and ood | e(a). Doolley Muy | z, INIVI, 1904 | 1, 32 103-66 | |

16. Project Data:

a. Records Search: Date(s

Date(s) of BLM field Review: 26-June-2003 Name of Reviewer(s): Allen S. Rorex Date of ARMS Data Review: 25-June-2003 Name of Reviewer(s): Doralene Sanders

Findings (see Field Office requirements to determine area to be reviewed during records search): BLM Record Check Maps and ARMS records indicate that there are no sites within a one mile-radius of the project area.

- b. Description of Undertaking: A Class III Cultural Resource Survey was conducted at the proposed East Livingston "31" Federal Number 1 and the East Livingston "31" Federal Number 2 well locations and an associated access road at the request of Echo Production, Inc. The newly proposed well locations and access road are staked in Section 31, T.22S, R.32E, Lea County, New Mexico. The East Livingston "31" Federal Number 1 is staked at 660 ft FNL and 330 ft FEL of Section 31. The East Livingston "31" Federal Number 2 is staked at 1,980 ft FNL and 330 ft FEL of Section 31. The impact area for both well locations is 400 ft by 400 ft. The survey area for both well locations is 600 ft by 600 ft. The proposed access road associated with the proposed East Livingston "31" Federal Number 2 is 1,063 ft long. Approximately 300 ft of the access road is within the 600 ft by 600 ft survey areas for the both of the proposed well pads (150 ft within each of the 600 ft by 600 ft survey areas). The proposed access road begins at an existing lease road within the 600 ft by 600 ft survey area for the proposed East Livingston "31" Federal Number 1 and trends south approximately 1,063 ft to the northeastern portion of the proposed East Livingston "31" Federal Number 2 well location. The impact area for the proposed access road is 763 ft by 50 ft. The survey area for the proposed access road is 763 ft by 50 ft. The survey area for the proposed access road is 763 ft by 50 ft.
- c. Environmental Setting (NCRS soil designation: vegetative community; elevation; etc.): The project is situated on a plain covered with low semi-stabilized dunes. Larger dunes are stabilized by both Mesquite and Shinoak. Elevation ranges from the bottom of interdune areas to the top of dunes approximately 0.2m to 1.0 m. The area is internally drained with interdunal ponding occurring after periodic rains. The vegetative community is characterized as a Plains-Mesa Sand Scrub assemblage. Flora within the project area includes Shinoak, Sand Sagebrush, Torrey Mesquite, Fineleaf Yucca, Tree Cholla, Spectaclepod, Prairie Pricklypear, and various species of grasses. Elevation ranges approximately 3,520 to 3,540 ft above msl. The area is used primarily for oil exploitation and ranching.
- **d. Field Methods (transect intervals; crew size; time in field, etc.):** The survey was conducted by walking 12 transects over each of the staked well locations. The access road was surveyed by walking at 15 m intervals parallel to, and on either side of the right-of-way centerline. Time in the field was 8 hours.
- e. Artifacts Collected? No
- 17. Cultural Resource Findings: No cultural resources were encountered.
- a. Location/Identification of Each Resource: N/A
- b. Evaluation of Significance of Each Resource: N/A
- 18. Management Summary (Recommendations): During the current survey, no cultural resources were encountered. Therefore, archaeological clearance is recommended for the proposed East Livingston "33" Federal Number 1 and the East Livingston "33 Federal Number 2 well locations and associated access road, located in Section 31, T.22S, R.32E, with no stipulations.

| Page 3 | • | | | | | |
|--|---|--|--|--|--|--|
| 19. I certify the information provided above is correct and accurate and meets all applicable BLM Standards. | | | | | | |
| Responsible Archaeologists Signature For, Allen S. Rorex Field Supervisor | 7/7/03 Date | | | | | |
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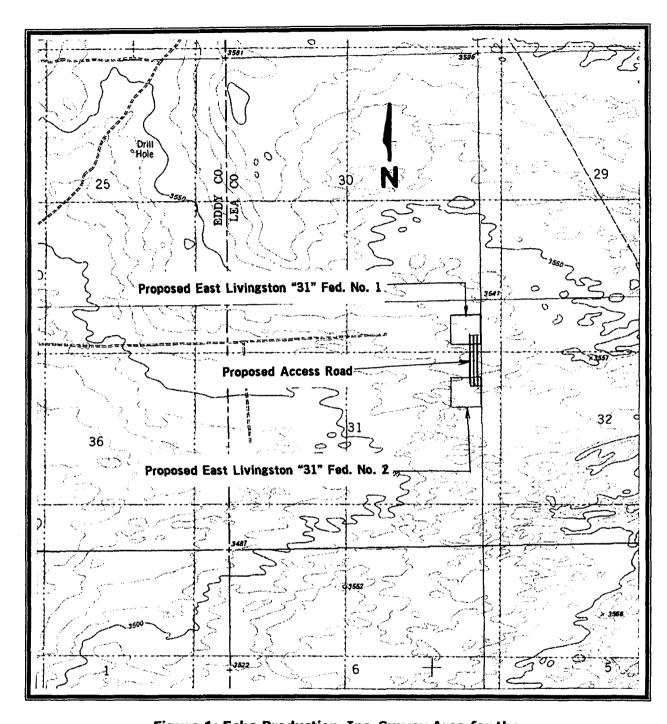


Figure 1: Echo Production, Inc. Survey Area for the
Proposed East Livingston "31" Federal Number 1 Well Location and the East
Livingston "31" Federal Number 2 Well Location and Associated Access Road
Section 31, T.22S, R. 32E
USGS Bootleg Ridge, NM; (1984) 7.5' topo map
Lea County, New Mexico

Southern New Mexico Archeological Services, Inc.