33212 - IJKLM NOP

DE BUI

APPLICATION FOR PERMIT TO DRILL OR REENTER

p	TFORM APPRIOVED OMB No. 1803-0136 Express No. 2806-30, 200	n
	Expires November 30, 200	U

6. If Indian, Allottee or Tribe Name

UNITED STATES	
PARTMENT OF THE INTERIOR	
REAU OF LAND MANAGEMENT	

5.	Lease Serial No.
	NMNM110351

,			
la. Type of Work: DRILL REENTER		7. If Unit or CA Agreement, Name and No.	
	MELANIE J PARKER E-Mail: LAND2@MARBOB.COM	8. Lease Name and Well No. MUCHO CERVEZA FEDERAL 1 9. API Well No.	
3a. Address P O BOX 227 ARTESIA, NM 88211-0227	3b. Phone No. (include area code) Ph: 505-748-3303 Fx: 505-746-2523	10. Field and Pool, or Exploratory GOLDEN LAKE MORROW	
4. Location of Well (Report location clearly and in accorda 2400 ドンレーフラン At surface SWNW 1880FNL 990FWL At proposed prod. zone SWNW 1880FNL 990FWL 2400 ドントーフラント	FLOR	11. Sec., T., R., M., or Blk. and Survey or Area Sec 36 T20S R29E Mer NMP SME: BLM	
14. Distance in miles and direction from nearest town or post		12. County or Parish 13. State EDDY NM	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of Acres in Lease 640.00	17. Spacing Unit dedicated to this well 320.00	
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth 12700 MD 12700 TVD	20. BLM/BIA Bond No. on file	•
21. Elevations (Show whether DF, KB, RT, GL, etc. 3315 GL	22. Approximate date work will start 12/15/2004	23. Estimated duration 21 DAYS	
	24. Attachments CAPIT	AN CONTROLLED WATER BASIN	
The following, completed in accordance with the requirements o 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Off	4. Bond to cover the operation Item 20 above). em Lands, the 5. Operator certification	this form: ns unless covered by an existing bond on file (see formation and/or plans as may be required by the	
25. Signature (Electronic Submission)	Name (Printed/Typed) MELANIE J PARKER Ph: 505-748-3303	Date 11/10/2004	
Title LAND DEPARTMENT		and the superior and th	
Approved by (Signature)	Name (Printed/Typed) - WAA S.C. RUA	1DEL 12/02/0	
Title U STATE DIRECTOR	Office NM STATE OFFICE		

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct

Conditions of approval, if any, are attached.

APPROVAL FOR 1 YEAR

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Electronic Submission #50857 verified by the BLM Well Information System For MARBOB ENERGY CORPORATION, sent to the Carlsbad Committed to AFMSS for processing by LINDA ASKWIG on 11/10/2004 (05LA0085AE)

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

UN'TED STATES DEPARTMI OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0135 Expires: January 31, 2004

5. Lease Serial No. SUNDRY NOTICES AND REPORTS ON WELLS NM 110351 Do not use this form for proposals to drill or to re-enter an 6. If Indian, Allottee or Tribe Name abandoned well. Use Form 3160-3 (APD) for such proposals. 7. If Unit or CA/Agreement, Name and/or No. SUBMIT IN TRIPLICATE - Other instructions on reverse side Type of Well Oil Well Gas Well Other 8. Well Name and No. 2. Name of Operator Mucho Cerveza Federal #1 9. API Well No. Marbob Energy Corporation 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory Area 505-748-3303 PO Box 227, Artesia, NM 88211-0227 Golden Lake: Morrow 4. Location of Well (Footage, Sec., T, R., M., or Survey Description) 2400' FSL & 790' FWL 11. County or Parish, State Section 36: T20S-R29E Unit E Eddy County, New Mexico 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Acidize Deepen Water Shut-Off Production (Start/Resume) ✓ Notice of Intent Alter Casing Fracture Treat Reclamation Well Integrity Casing Repair **New Construction** Recomplete Other Change Footage Subsequent Report Change Plans Plug and Abandon Temporarily Abandon Final Abandonment Notice Convert to Injection Plug Back Water Disposal 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.) Marbob Energy intends to change the footage of this well from 1880' FNL & 990' FWL to 2400' FSL & 790' FWL per Barry Hunt. Attached is a revised plat reflecting this change. 14. I hereby certify that the foregoing is true and correct Name (PrintedlTyp Title Land Department Amy Reid Signature Date 9/13/05 THIS SPACE FOR FEDERAL OR STATE OFFICE USE INDA C.C. LUND TISTATE DIRECTOR Approved by (Signature) (Printed:Typed) Office Date Conditions of approval, if any, are attached. Approval of this notice does not warrant or NM STATE OFFICE certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DISTRICT II

RICT I

Energy, Minerals and Natural Resources Department

I CONSEDUATION DIVIS

Form C-102
Revised JUNE 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

1301 W. GRAND AVENUE, ARTESIA, NM 68210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

DISTRICT IV 1220 S. ST. FRANCIS DR., SANTA FE, NM 87505	WELL LOCATION AND A	CREAGE DEDICATION PLAT	□ AMENDED REPORT
API Number	Pool Code 77560	Pool Name GOLDEN LAKE; MORROW	
Property Code	-	ty Name VEZA FEDERAL	₩eli Number 1
OGRID No. 14049		or Name Y CORPORATION	Elevation 3353'

UL or lot No.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County
L	36	20-S	29-E		2400	SOUTH	790	WEST	EDDY
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

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acre	Dedicated Acres Joint or Infill Consolidation Code Order No.								
320									

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

OR A NON-STANDARD UNIT HAS BEEN APP	THE DIVIDION
GEODETIC COORDINATES NAD 27 NME Y=556323.5 N X=592226.5 E	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
LAT.=32°31′44.71″ N LONG.=104°02°02.73″ W	Signature OUT
	AMY REID Printed Name LAND DEPARTMENT Title
,3345.8' 3348.5'	SEPTMEBER 13, 2005 Date SURVEYOR CERTIFICATION
3346.7'	I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my betief.
	AUGUST 29, 2005 Date Survegedminimum JR Signature & Seat of Professional Surveyor
	500 ls falm 1/6/05 05.11/1329
	Cerustian No. GARY, EDSON 12841

State of New Mexico

DISTRICT I 1625 N. FERNCE DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

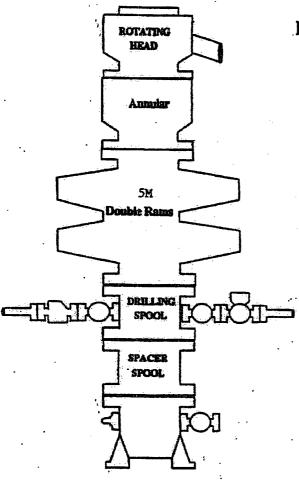
DISTRICT II.
1301 W. GRAND AVENUR, ARTESIA, NW 88210

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

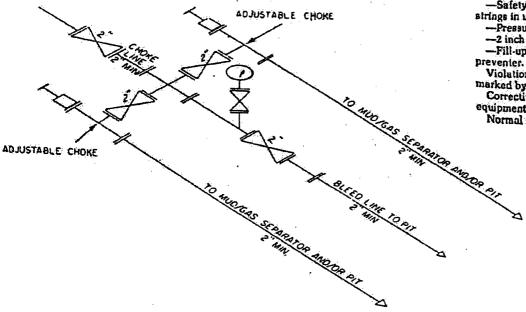
Form C-102
Revised JUNE 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Axtec, NM 87410

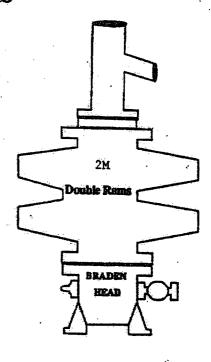
WELL LOCATION AND ACREAGE DEDICATION PLAT DISTRICT IV ☐ AMENDED REPORT 1220 S. ST. FRANCIS DR., SANTA PR. NO. 87505 Pool Name Pool Code API Number Golden Lake; Morrow 77560 Well Number Property Name Property Code MUCHO CERVEZA FEDERAL 1 Elevation OGRID No. Operator Name MARBOB ENERGY CORPORATION 3315 14049 Surface Location Range North/South line East/West line UL or lot No. Section Township Lot Idn Feet from the Feet from the County **WEST** 297 1880 NORTH 990 **EDDY** Ε 36 20-S Bottom Hole Location If Different From Surface North/South line Lot Idn Feet from the Peet from the Rast/West line County UL or lot No. Section Township Range Joint or Infill Consolidation Code Order No. Dedicated Acres 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 OPERATOR CERTIFICATION DETAIL I hereby certify the the information 000 ed herein is true and complete to the ٠Ó 600 3336.9 3334.9 Melanie J. Parker Printed Name Land Department 990" Title SEE November 9, 2004 DETAIL Date SURVEYOR CERTIFICATION I hereby certify that the well location shown GEODETIC COORDINATES on this plat was plotted from field notes of NAD 27 NME actual surveys made by me or under my supervison, and that the same is true and Y=557326.9 N correct to the best of my belief. X=592424.1 E Date Surveyed Continue of the Surveyed Continue of the Surveyed Continue of the Surveyed Continue of the Survey of LAT.=32'31'53.64" N Signature & Seal of E/DS LONG. = 104.02'00.39" W AN MEX Certificate No. GARY EDSON 12641 POFFSSION



ONSHORE OIL AND GAS ORDER NO. 2



BOPE SCHEMATIC



2M system:

-Annular preventer, or. double ram, or two rams with one being blind and one being a pipe ram

-Kill line (2 inch minimum)

-1 kill line valve (2 inch minimum)

-1 choke line valve

-2 chokes (refer to diagram in

Attachment 1)

-Upper kelly cock valve with handle

available -Safety valve and subs to fit all drill

strings in use —Pressure gauge on choke manifold
—2 inch minimum choke line

-Fill-up line above the uppermost

Violation: Minor (all items unless marked by saterisk).

Corrective Action: Install the

equipment as specified.
Normal Abatement Period: 24 hours.

LOCATION VERIFICATION MAP

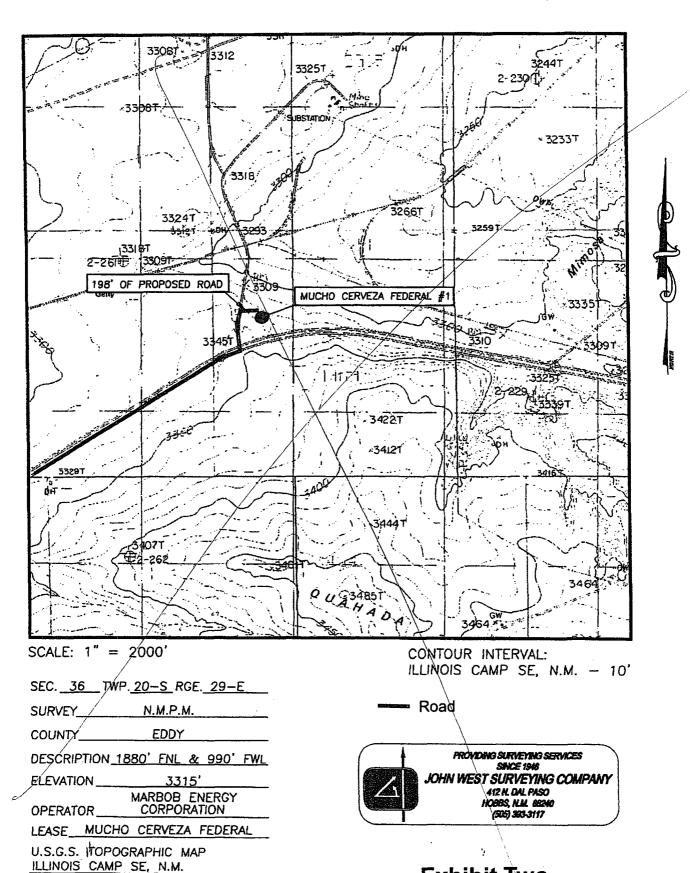
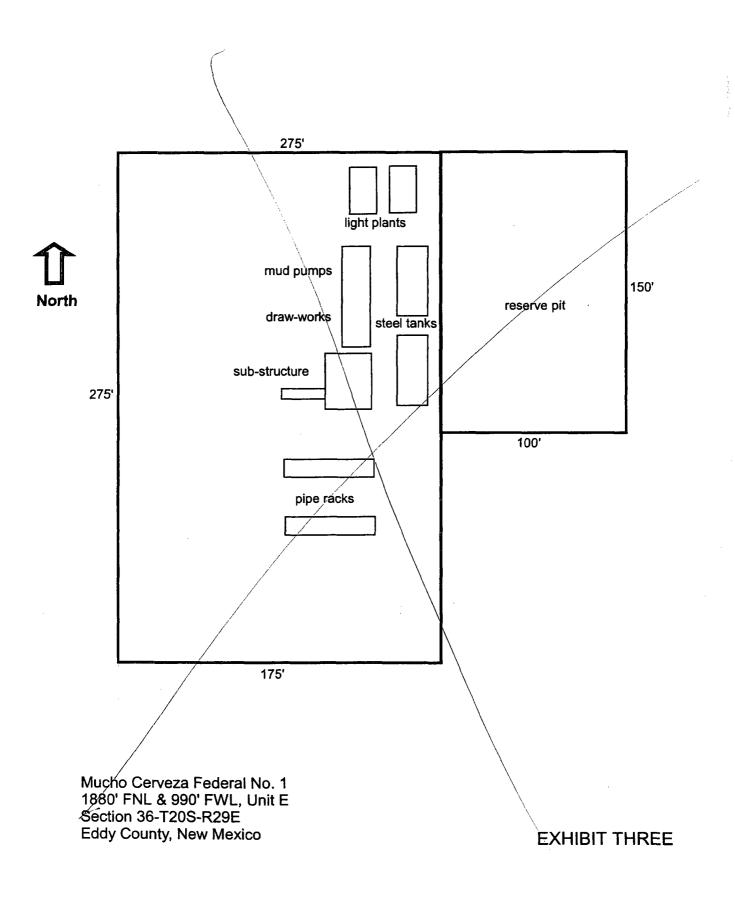


Exhibit Two



MARBOB ENERGY CORPORATION DRILLING AND OPERATIONS PROGRAM

Mucho Cerveza Federal #1 1880' FNL & 990' FWL, Unit E Section 36, T20S, R29E Eddy County, New Mexico

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Marbob Energy Corporation submits the following ten items of pertinent information in accordance with BLM requirements.

- 1. The geological surface formation is Permian.
- 2. The estimated tops of geologic markers are as follows:

Rustler	200′	Bone Spring	6500 ′
Top of Salt	470′	Wolfcamp	10000′
Base of Salt	1550'	Strawn	11000′
Yates	1640'	Atoka	11350′
Seven Rivers	1752'	Morrow	12100'
Reef	2000′	TD	12700′
Delaware	3500'		

3. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Reef	2000'	Water
Delaware	3500'	Oil
Wolfcamp	10000'	
Strawn	11000'	Gas
Atoka	11350′	
Morrow	12100'	

No other formations are expected to give up oil, gas, or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 20" casing at 300' and circulating cement back to surface. Any shallower zones above TD which contain commercial quantities of oil and/or gas will have cement circulated across them by inserting a float shoe joint into the 5 1/2" production casing which will be run at TD to sufficiently cover all known oil and gas horizons above 200'.

4. Proposed Casing Program:

Hole Size	Interval	OD Casing	Wt	Grade
26"	0 - 300'	20"	94#	H-40
17 1/2"	0 - 1650'	13 3/8"	48#	H-40
12 1/4"	0 - 3400'	8 5/8"	32#	J-55
7 7/8"	0 - 12700'	5 1/2"	17#	P-110 LT&C

Proposed Cement Program:

WITNESS

20" Surface Casing:

Cement w/ 400 sx Premium Plus. Circulate to surface.

WITNESS 13 3/8" Intermediate Casing: Cement w/ 900 sx cmt. Circulate to surface.

8 5/8" Intermediate Casing: Cement w/ 900 sx cmt. Attempt to tie in to 13 3/8" csg.

5 1/2" Production Casing: Cement w/ 700 sx cmt. Attempt to tie in to 8 5/8" csg.

5. Pressure Control Equipment: See Exhibit 1. Marbob proposes to nipple up on the 20" and 13 3/8" casing with a 2M system, testing it to 1000# with rig pumps, then nipple up on the 8 5/8" casing with a 5M system, tested to 5000# before drilling out.

6. Mud Program: The applicable depths and properties of this system are as follows:

	Depth	Type	Weight (ppg)	Viscosity (sec)	Waterloss (cc)
_	0 – 300′	Fresh Wtr	8.4 – 9.2	32 – 36	N.C.
	300 - 1650'	Brine	9.9 - 10.2	28 – 32	N.C.
	1650 - 3400'	Fresh Wtr	8.4 - 8.6	28 – 32	N.C.
	3400 - 12500'	Cut Brine	8.7 - 9.5	28 – 34	N.C.

- 7. Auxiliary Equipment: Kelly Cock; Sub with full opening valve on floor; and drill pipe connections.
- 8. Testing, Logging and Coring Program:

No drillstem tests are anticipated.

The electric logging program will consist of Dual Laterolog Micro SFL, Spectral Density Dual Spaced Neutron Csng Log, and Depth Control Log. No conventional coring is anticipated.

- 9. No abnormal pressures or temperatures are anticipated.
- 10. Anticipated starting date: As soon as possible after approval.

MARBOB ENERGY CORPORATION MULTI-POINT SURFACE USE AND OPERATIONS PLAN

Mucho Cerveza Federal #1 1880' FNL & 990' FWL, Unit E Section 36, T20S, R29E Eddy County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated with the operations.

1. EXISTING ROADS:

Exhibit 2 is a portion of a topo map showing the well and roads in the vicinity of the proposed location. The proposed wellsite and the access route to the location are indicated in red on Exhibit 2.

DIRECTIONS:

From the intersection of US Hwy 62-180 and County Road 238 (Burton Flat Rd.) go north on County Road 238 approximately 0.1 miles to a proposed road survey on the right. Follow proposed road survey approximately 198' east to proposed location.

2. PLANNED ACCESS ROAD:

A new access road of 198' will be necessary. The new road will be constructed as follows:

- A. The maximum width of the running surface will be 10'. The road will be crowned and ditched and constructed of 6" of rolled and compacted caliche. Ditches will be at 3:1 slope and 4 feet wide. Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns. BLM may specify any additions or changes during the onsite inspection.
- B. The average grade will be less than 1%.
- C. No turnouts are planned.
- D. No culverts, cattleguard, gates, low-water crossings, or fence cuts are necessary.
- E. Surfacing material will consist of native caliche. Caliche will be obtained from the nearest BLM-approved caliche pit. Any additional materials that are required will be purchased from the dirt contractor.

F. The proposed access road as shown in Exhibit 2 has been centerline flagged by John West Engineering.

3. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

A. Marbob Energy Corporation proposes a collection facility, if well is productive, to be located on Mucho Cerveza Federal #1 well pad.

4. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the lined pit.
- B. Drilling fluids will be allowed to evaporate in the lined pit until the pit is dry.
- C. Water produced during completion may be disposed into the lined reserve pit.
- D. All trash and debris will be removed from the wellsite within 30 days after finishing drilling and/or completion operations. All waste material will be contained to prevent scattering by the wind.

5. WELLSITE LAYOUT:

- A. Exhibit 3 shows the relative location and dimensions of the well pad, the pit.
- B. The reserve pit will be lined with high quality plastic sheeting.

6. PLANS FOR RESTORATION:

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Reserve pit will be fenced until they have dried and been leveled.
- C. All rehabitation and/or vegetation requirements of the BLM will be complied with and will be accomplished as expeditiously as possible. All pits will be filled level within 90 days after abandonment.

7. SURFACE OWNERSHIP:

The well site and lease are located on Federal surface

- A. The area around the well site is grassland and the top soil is sandy. The vegetation is native scrub grasses with abundant oakbrush, sagebrush, yucca, and prickly pear.
- B. A Cultural Resources Examination has been requested and will be forwarded to your office in the near future.

8. OTHER INFORMATION:

A. Topography: Refer to the existing archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.

9. OPERATOR'S REPRESENTATIVE:

A. Through A.P.D. Approval:

Dean Chumbley, Landman Marbob Energy Corporation P. O. Box 227 Artesia, NM 88211-0227 Phone (505)748-3303 Cell (505)748-5988 B. Through Drilling Operations

Sheryl Baker, Drilling Supervisor Marbob Energy Corporation P. O. Box 227 Artesia, NM 88211-0227 Phone (505)748-3303 Cell (505)748-5489

10. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Marbob Energy Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filling of a false statement.

11/10/04

Date

Melanie J. Parker Land Department

MARBOB ENERGY CORPORATION

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

I. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- A. The hazards and characteristics of hydrogen sulfide (H_2S) .
- B. The proper use and maintenance of personal protective equipment and life support systems.
- C. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- D. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- A. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- B. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- C. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

II. H2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S.

A. Well Control Equipment:

Flare line.

Choke manifold.

Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.

Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

B. Protective equipment for essential personnel:

Mark II Surviveair 30-minute units located in the dog house and at briefing areas.

C. H₂S detection and monitoring equipment:

2 - portable H₂S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H₂S levels of 20 ppm are reached.

D. Visual warning systems:

Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

E. Mud Program:

The mud program has been designed to minimize the volume of H₂S circulated to the surface.

A mud-gas separator will be utilized.

F. Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.

G. Communication:

Company vehicles equipped with cellular telephone and 2-way radio.

WARNING

YOU ARE ENTERING AN H₂S AREA AUTHORIZED PERSONNEL ONLY

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED
- 2. HARD HATS REQUIRED
- 3. SMOKING IN DESIGNATED AREAS ONLY
- 4. BE WIND CONSCIOUS AT ALL TIMES
- 5. CK WITH MARBOB FOREMAN AT MAIN OFFICE

MARBOB ENERGY CORPORATION

1-505-748-3303

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

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

Date:

November 4, 2004

Lease #:

NM 110351

Mucho Cerveza Federal

Legal Description: Section 36: All

Township 20S - Range 29E Eddy County, New Mexico

Formation(s): Morrow

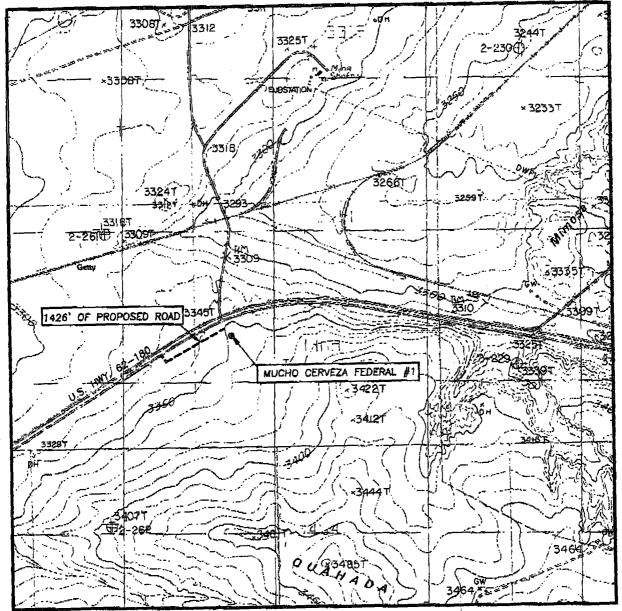
Bond Coverage: Statewide

BLM Bond File #: 585716

Melanie J. Parker

Land Department

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: ILLINOIS CAMP SE, N.M. - 10'

SEC. 36 TWP. 20-5 RGE. 29-E SURVEY N.M.P.M. COUNTY____EDDY DESCRIPTION 2400' FSL & 790' FWL 3353' ELEVATION____ MARBOB ENERGY CORPORATION OPERATOR___ LEASE MUCHO CERVEZA FEDERAL U.S.G.S. TOPOGRAPHIC MAP ILLINOIS CAMP SE. N.M.



PROVIDING SURVEYING SERVICES SINCE 1948 JOHN WEST SURVEYING COMPANY 412 NL DAL PASO (505) 303-3117



SPECIAL DRILLING STIPULATIONS

THE FOLLOWING DATA IS REQUIRED ON THE WELL SIGN

Operator's Name_MARBOB_ <u>FNERGY_CORPORAT</u> Location_ <u>2400_FS_L &790_FW_L</u> _Sec Lease No <u>NM-110351</u> County_ <u>FDD</u>	<u>36</u> , T. <u>20</u> S, R <u>29</u> E.				
conditioned upon compliance with such stipulations in a General Requirements, a copy of which is available fror	able to the above described well and approval of this application to drill is addition to the General Requirements. The permittee should be familiar with the na Bureau of Land Management office. EACH PERMITTEE HAS THE RIGHT LATIONS PURSUANT TO TITLE 43 CRF 3165.3 AND 3165.4.				
This permit is valid for a period of one year from the dat	te of approval or until lease expiration or termination whichever is shorter.				
I. SPECIAL ENVIRONMENT REQUIREMEN	TS				
() Lesser Prairie Chicken (stips attached) () San Simon Swale (stips attached)	() Flood plain (stips attached) () Other				
II. ON LEASE - SURFACE REQUIREMENTS	PRIOR TO DRILLING				
(505) 393-3612, at least 3 working days prior to comme	e. Notify the (Carlsbad Field Office at (505) 234-5972 () Hobbs Office noting construction.				
Noads and the drill pad for this well must be surfaced determined to be a producer.	ed with 6 inches of compacted caliche upon completion of well and it is				
esurfacing of the disturbed area after completion of the n depth. Approximatelycubic yards of topsoil m	·				
Nother V-Door South (Reserve pits to the East)					
III. WELL COMPLETION REQUIREMENTS	•				
() A Communitization Agreement covering the acreage dedicated to the well must be filed for approval with the BLM. The effective date of the agreement must be prior to any sales.					
to a slope of 3:1 or less. All areas of the pad not necessary	reserve pit(s) will be backfilled when dry, and cut-and-fill slopes will be reduced ary for production must be re-contoured to resemble the original contours of the nd re-seeded with a drill equipped with a depth indicator (set at depth of ½ inch) Seed (PLS), per acre.				
) A. Seed Mixture 1 (Loamy Sites) Side Oats Grama (<i>Bouteloua curtipendula</i>) 5.0 Sand Dropseed (<i>Sporobolus cryptandrus</i>) 1.0	() B. Seed Mixture 2 (Sandy Sites) Sand Dropseed (Sporobolus crptandrus) 1.0 Sand Lovegrass (Eragostis trichodes) 1.0 Plains Bristlegrass (Setaria magrostachya) 2.0				
C) C. Seed Mixture 3 (Shallow Sites) Side oats Grama (<i>Boute curtipendula</i>) 1.0	(D. Seed Mixture 4 (Gypsum Sites) Alkali Sacaton (<i>Sporobollud airoides</i>) Four-Wing Saltbush (<i>Atriplex canescens</i>) 5.0				
) OTHER SEE ATTACHED SEED MIXTURE					
Seeding should be done either late in the fall (September ake advantage of available ground moisture.	15 - November 15, before freeze up, or early as possible the following spring to				
() Other.					

Attached Stipulations Apply
All above ground structures will be painted FLAT non-reflective
Shale Green (5Y 4/2)

RESERVE PIT CONSTRUCTION STANDARDS

The reserve pit shall be constructed entirely in cut material and lined with 6 mil plastic. Mineral material extracted from within the boundary of the APD during construction of the well pad and reserve pits and be used for the construction of this well pad and its immediate access road only, as long as that portion of the access road it is use on remains on-lease. Removal of any additional material from this location for construction or improvement of other well pads and other access or lease roads must first be purchased from BLM.

<u>Reclamation</u>: Reclamation of this type of deep pit will consist of pushing the pit walls into the pit when sufficiently dry to support track equipment. The pit liner is NOT TO BE RUPTURED to facilitate drying; a ten month period after completion of the well is allowed for drying of the pit contents.

The pit area must be contoured to the natural terrain with all contaminated drilling mud buried with at least 3 feet of clean soil. The reclaimed area will then be seeded as specified in this permit.

OPTIONAL PIT CONSTRUCTION STANDARDS

The reserve pit may be constructed in predominantly fill material if:

- (1) Lined as specified above and
- (2) A temporary or emergency pit may be constructed immediately adjacent to the reserve pit as long as the pit remains within the APD boundary. Mineral material removed from this pit may be used for the construction of this well pad only and its immediate access road, as long as that portion of the access road the material is used on remains on-lease. Removal of any material from the APD boundary for use on other well locations or roads must first be purchased from BLM.

Reclamation of the reserve pit consists of bulldozing all reserve pit contents and contaminants into the borrow pit and covering with a minimum of 3 feet of clean soil material. The entire area must be recontoured, all trash removed, and reseeded as specified in this permit.

CULTURAL

Whether or not an archaeological survey has been completed and notwithstanding that operations are being conducted as approved, the lessee/operator/grantee shall notify the BLM immediately if previously unidentified cultural resources are observed during surface disturbing operations. From the time of the observation, the lessee/operator/grantee shall avoid operations that will result in disturbance to these cultural resources until directed to processed by BLM.

TRASH PIT STIPS

All trash, junk, and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

CONDITIONS OF APPROVAL - DRILLING

Operator's Name:

MARBOB ENERGY CORPORATION

Well Name & No.

1 – MUCHO CERVEZA FEDERAL

Location: 2400 FSL-1880'FNL & 990' FWL - SEC 36 - T20S - R29E - EDDY COUNTY

per SK dated 9/13/05

Lease:

NM-110351 790

I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Roswell Field Office, 2909 West Second St., Roswell NM 88201, (505) 627-0272 for wells in Chaves and Roosevelt Counties; the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 234-5909 or (505) 361-2822 (After hours) - for wells in Eddy County; and the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (505) 393-3612 for wells in Lea County, in sufficient time for a representative to witness:

A. Spudding

- B. Cementing casing: 20 inch 13-3/8 inch 8-5/8 inch 5-1/2 inch
- C. BOP tests
- 2 Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- 3. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15 day time frame.
- 4. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.
- 5. Gamma-Ray/Neutron logs shall be run from the base of the Salado Formation to the surface; cable speed not to exceed 30 feet per minute.

II. CASING:

- 1. The 20 inch surface casing shall be set at 300 feet, below usable water and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.
- 2. The minimum required fill of cement behind the 13-3/8 inch salt protection casing is circulate cement to the surface.
- 3. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is circulate cement to the surface.
- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is **cement shall extend** upward a minimum of 500 feet above the uppermost hydrocarbon bearing interval.
- 5. Whenever a casing string is cemented in the R-111-P Potash Area, cement shall be allowed to stand a minimum of twelve (12) hours under pressure and a total of twenty-four (24) hours before drilling the plug or initiating tests.

III. PRESSURE CONTROL:

- 1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the **8-5/8** inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.
- 2. Minimum working pressure of the blowout preventer and related equipment (BOPE) required for drilling the surface and intermediate casing strings shall be <u>2000</u> psi. Minimum working pressure of the blowout preventer and related equipment (BOPE) required for drilling below the <u>8-5/8</u> inch casing shall be <u>5000</u> psi.
- 3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.
- A variance to test the <u>20" and 13-3/8" casing strings</u> to the reduced pressure of <u>1000</u> psi with the rig pumps is approved.
- The tests shall be done by an independent service company.
- The results of the test shall be reported to the appropriate BLM office.
- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- Testing must be done in a safe workman-like manner. Hard line connections shall be required.
- BOPE must be tested prior to drilling into the Wolfcamp Formation by an independent service company.

IV. DRILLING MUD:

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** Formation, and shall be used until production casing is run and cemented. Monitoring equipment shall consist of the following:

- 1. Recording pit level indicator to indicate volume gains and losses.
- 2. Mud measuring device for accurately determining the mud volumes necessary to fill the hole during trips.
- 3. Flow-sensor on the flow line to warn of abnormal mud returns from the well.

BLM Serial Number: NM-110351

Company Reference: MARBOB ENERGY CORP

Well No. & Name: 1-MUCHO CERVEZA FEDERAL

STANDARD STIPULATIONS FOR PERMANENT RESOURCE ROADS CARLSBAD FIELD OFFICE

A copy of the grant 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/grantee/permittee shall hereafter be identified as the holder in these stipulations. The Authorized Officer is the person who approves the Application for Permit to Drill (APD) and/or Right-of-Way (ROW).

GENERAL REQUIREMENTS

- A. 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.
- B. 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.
- C. 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.
- D. If, during any phase of the construction, operation, maintenance, or termination of the road, any oil or other pollutant should be discharged, impacting Federal lands, the control and total removal, disposal, and cleaning up 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.

E. The holder shall minimize disturbance to existing fences and other improvements on public domain surface. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times.

The holder will make a documented good-faith effort to contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence.

F. The Holder shall ensure that the entire right-of-way, including the driving surface, ditching and drainage control structures, road verges and any construction sites or zones, will be kept free of the following plant species: Malta starthistle, African rue, Scotch thistle and salt cedar.

Holder agrees to comply with the following stipulations:

ROAD WIDTH AND GRADE

The road will have a driving surface of 14 feet (all roads shall have a minimum driving surface of 12 feet, unless local conditions dictate a different width). The maximum grade is 10 percent unless the box below is checked. Maximum width of surface disturbance from construction will be 30 feet.

/__/ Those segments of road where grade is in excess of 10% for more than 300 feet shall be designed by a professional engineer.

2. CROWNING AND DITCHING

Crowning with materials on site and ditching on one side of the road on the uphill side will be required. The road cross-section will conform to the cross section diagrams in Figure 1. If conditions dictate, ditching may be required for both sides of the road; if local conditions permit, a flat-bladed road may be considered (if these conditions exist, check the appropriate box below). The crown shall have a grade of approximately 2% (i.e., 1" crown on a 12' wide road).

14	Ditching will	be required	on both	h sides	of the	roadway	as shown	on	the
а	ittached map	or as stake	d in the	field.					

[/]__/ Flat-blading is authorized on segment(s) delineated on the attached map.

DRAINAGE

Drainage control shall be ensured over the entire road through the use of borrow ditches, outsloping, insloping, natural rolling topography, lead-off (turnout) ditches, culverts, and/or drainage dips.

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

SPACING INTERVAL FOR TURNOUT DITCHES

Percent slope	Spacing interval		
0% - 4%	400' - 150'		
4% - 6%	250' - 125'		
6% - 8%	200' - 100'		
8% - 10%	150' - 75'		

A typical lead-off ditch has a minimum depth of 1 foot below and a berm 6 inches above natural ground level. The berm will be on the down-slope side of the lead-off ditch. The ditch end will tie into vegetation whenever possible.

For this road the spacing interval for lead-off ditches shall be at

/<u>#</u>_/ 400 foot intervals.

1 200 foot intervals.

/__/ locations staked in the field as per spacing intervals above.

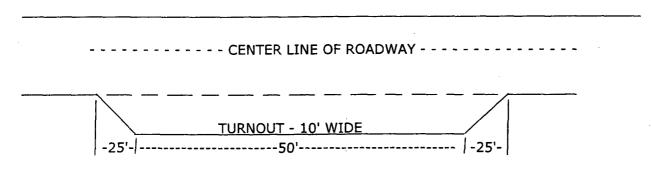
/__/ locations delineated on the attached map.

- B. Culvert pipes shall be used for cross drains where drainage dips or low water crossings are not feasible. The minimum culvert diameter must be 18 inches. Any culvert pipe installed shall be of sufficient diameter to pass the anticipated flow of water. Culvert location and required diameter are shown on the attached map (Further details can be obtained from the Roswell District Office or the appropriate Resource Area Office).
- C. On road slopes exceeding 2%, drainage dips shall drain water into an adjacent lead-off ditch. Drainage dip location and spacing shall be determined by the formula:

Example: 4% slope: spacing interval = 400 + 100 = 200 feet

4. TURNOUTS

Unless otherwise approved by the Authorized Officer, vehicle turnouts will be required. Turnouts will be located at 2000-foot intervals, or the turnouts will be intervisible, whichever is less. Turnouts will conform to the following diagram:



STANDARD TURNOUT - PLAN VIEW

5. SURFACING

Surfacing of the road or those portions identified on the attached map may, at the direction of the Authorized Officer, be required, if necessary, to maintain traffic within the right-of-way with caliche, gravel, or other surfacing material which shall be approved by the Authorized Officer. When surfacing is required, surfacing materials will be compacted to a minimum thickness of six inches with caliche material. The width of surfacing shall be no less

than the driving surface. Prior to using any mineral materials from an existing or proposed Federal source, authorization must be obtained from the Authorized Officer.

A sales contract for the removal of mineral materials (caliche, sand, gravel, fill dirt, etc.) from an authorized pit, site, or on location must be obtained from the BLM prior to using any such mineral material from public lands. Contact the BLM solid minerals staff for the various options to purchase mineral material.

6. CATTLEGUARDS

Where used, all cattleguard grids and foundation designs and construction shall meet the American Association of State Highway and Transportation Officials (AASHTO) Load Rating H-20, although AASHTO U-80 rated grids shall be required where heavy loads (exceeding H-20 loading), are anticipated (See BLM standard drawings for cattleguards). Cattleguard grid length shall not be less than 8 feet and width of not less than 14 feet. A wire gate (16-foot minimum width) will be provided on one side of the cattleguard unless requested otherwise by the surface user.

7. MAINTENANCE

The holder shall maintain the road in a safe, usable condition. A maintenance program shall include, but not be limited to blading, ditching, culvert installation, culvert cleaning, drainage installation, cattleguard maintenance, and surfacing.

PUBLIC ACCESS

Public access along this road will not be restricted by the holder without specific written approval being granted by the Authorized Officer. Gates or cattleguards on public lands will not be locked or closed to public use unless closure is specifically determined to be necessary and is authorized in writing by the Authorized Officer.

9. CULTURAL RESOURCES

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.

10. SPECIAL STIPULATIONS: No 100