OCD-HOBBS

UNITED STATES

FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000

DEPARTMENT OF	THE INTERIOR	
BUREAU OF LAND		5. Lease Serial No. NMNM110834
APPLICATION FOR PERMIT	TO DRILL OR REENTER E-04-14	6. If Indian, Allottee or Tribe Name
1a. Type of Work: DRILL REENTER		7. If Unit or CA Agreement, Name and No.
lb. Type of Well:	her Single Zone Multiple Zone	Lease Name and Well No. MOE FEDERAL 13
	MELANIE PARKER E-Mail: marbob@marbob.com	9. API Well No.
3a. Address	3b. Phone No. (include area code)	30-025-36654 10. Field and Pool, or Exploratory
P. O. BOX 227 ARTESIA, NM 88211-0227	Ph: 505.748.3303 Fx: 505.746.2523	PEARSALL QUEEN
4. Location of Well (Report location clearly and in accord	ance with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area
At surface SESW Lot N 330FSL 2310)FWL	Sec 34 T17S R32E Mer NMP
At proposed prod. zone SESW Lot N 330FSL 2310)FWL	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
14. Distance in miles and direction from nearest town or post	office*	12. County or Parish 13. State
15. Distance from proposed location to nearest property or	I 16. No. of Acres in Lease	17.\Spacing Upin dedicated to this well
lease line, ft. (Also to nearest drig. unit line, if any)		40.00
	160.00	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth	20. BLM/BIA Bond No. on file
	10000 MD	The Management APP 1 To
21. Elevations (Show whether DF, KB, RT, GL, etc. 3907 GL	22. Approximate date work will start 03/15/2004	23. Estimated duration 21 DAYS
	24. Attachments	ntrolled Water Basin
The following, completed in accordance with the requirements of	of Onshore Oil and Gas Order No. 1, shall be attached to	this form:
Well plat certified by a registered surveyor. A Drilling Plan.		ions unless covered by an existing bond on file (see
A Surface Use Plan (if the location is on National Forest Sys SUPO shall be filed with the appropriate Forest Service Of		- C
SOFO shan be fried with the appropriate Polest Service Of	authorized officer.	nformation and/or plans as may be required by the
25. Signature (Electronic Submission)	Name (Printed/Typed) MELANIE PARKER	Date 02/05/2004
Title AUTHORIZED REPRESENTATIVE	/	
Approved by (Signature) OE G. LARA	Name (Printed/Typed)	LARA Date MAR 2 9 20
	/S/ JOE G.	LARA MAR 2 9 ZI
ALTIN FIELD MANAGER	CARLSBAD FIELD	
Application approval does not warrant or certify the applicant hoperations thereon.	<u>:</u>	• •
Conditions of approval, if any, are attached.	AP	PROVAL FOR 1 YEAR
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, States any false, fictitious or fraudulent statements or representa	make it a crime for any person knowingly and willfully tions as to any matter within its jurisdiction.	to make to any department or agency of the United
Additional Operator Remarks (see next page)		1/-
Electronic Submiss	sion #27617 verified by the BLM Well Infor	mation System
Electronic Submiss For MARB APPROVAL SUBJECT TO FOR MARB APPROVAL SUBJECT TO FOR MARB APPROVAL SUBJECT TO FOR MARB GENERAL REQUIREMENTS AND FOR MARB APPROVAL SUBJECT TO FOR MARB APPROVAL SUB	OB ENERGY CORPORATION, sent to the lor processing by LINDA ASKWIG on 02/05/	Hobbs 2064(040-40076A5) /2/8//
General requirements and		PROPERTY NO. 33/24
SPECIAL STIPULATIONS		POOL CODE 49970
ATTACHED	·	UUDE 4991/

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** APINO. 30-025DISTRICT 1
F.O. Ber 1980, Hobbs, NN 80241-1880

State of New Mexico

Shergy, Minerale and Natural Resources Department

Form C-102
Revised February 16, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artenia, NM 85211-0719

DISTRICT III
1000 Bio Brazos Ed., Artec, NN 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

DISTRICT IV P.O. BOT 2005, SANTA PR. N.M. 87504-2085 Santa Fe, New Mexico 87504-2088
WELL LOCATION AND ACREAGE DEDICATION PLAT

C AMENDED REPORT

API Number	Pool Code	Pool Nan	,3 ""
30-025-36654	49970	PEARSALL QUEEN	
Property Code		rty Name	Vell Number
33624	MOE F	EDERAL	13
OGRID No.	Opera	tor Name	Elevation
14049	MARBOB ENER	MARBOB ENERGY CORPORATION	

Surface Location

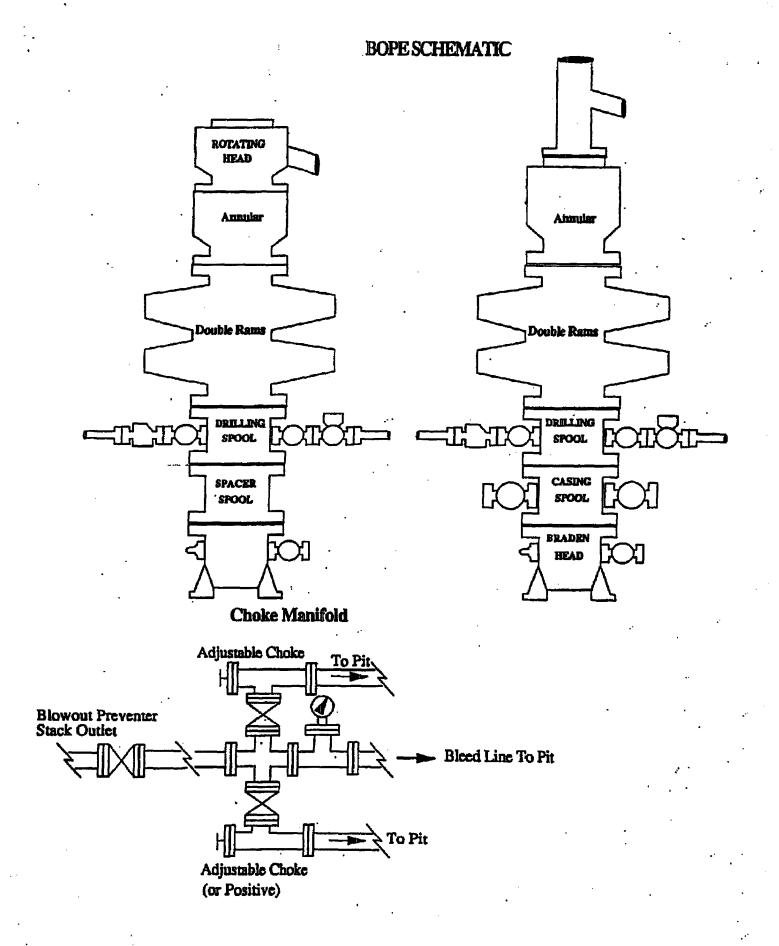
ı	UL or lot No.	Section.	Township	Range	Lot Idn	Feet from the	North/South line	Peet from the	East/West line	County
	N	34	17-S	32-E		330	SOUTH	2310	WEST	LEA

Bottom Hole Location If Different From Surface

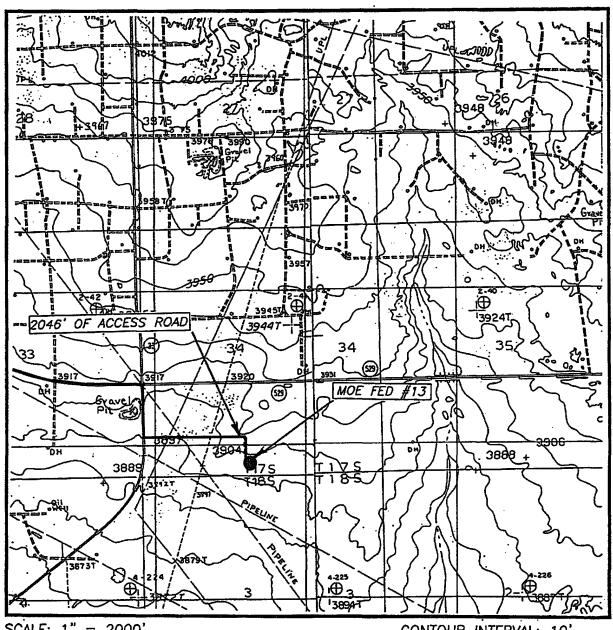
UL or lot No.	Section	Township	Range	lot lin	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acre	Joint o	r Infill Co	nsolidation (ode Or	der No.				

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

GEODETIC COORDINATES NAD 27 NME Y = 649634.8 N X = 677811.8 E LAT. 32'47'04.56"N LONG. 103'45'17.14"W	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my inoutedge and belief. Signature Melanie J. Parker Printed Name Land Department Title February 4, 2004 Date SURVEYOR CERTIFICATION
3913.7' 600' 3910.9' 2310	I haveby certify that the well logation 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 belief. December 31, 2003 Date Surveyed Signature & Seal of Protestation Surveyor O3.11/389 Cartificate No. Garr singer 12641



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

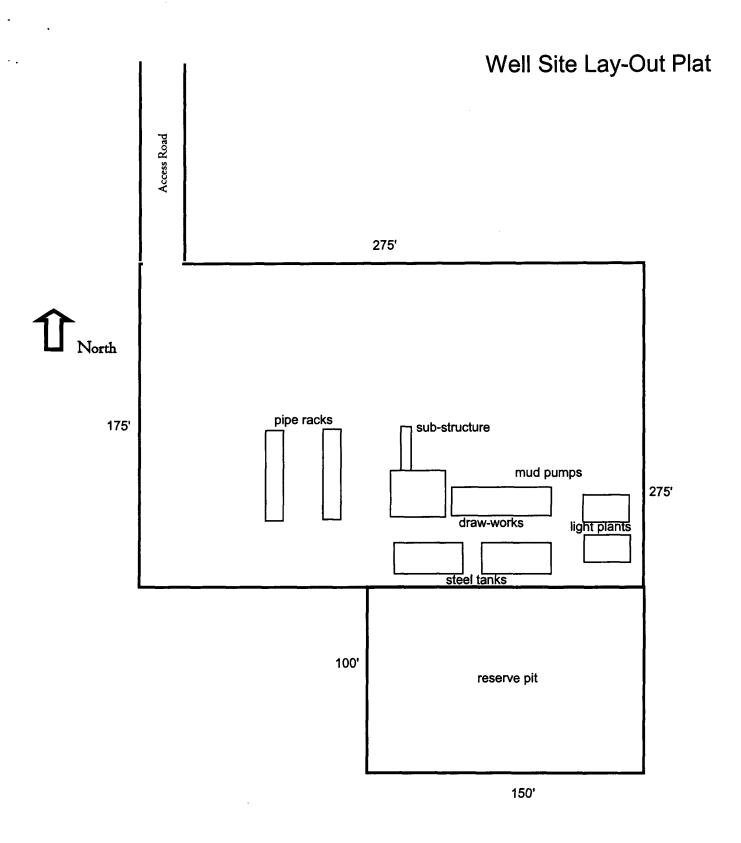
MALJAMAR, & DOG LAKE, N.M.

CONTOUR INTERVAL: 10' MALJAMAR, & DOG LAKE, N.M. SUP, 5'

SEC. <u>34</u>	TWP. <u>17-S</u>	RGE. <u>32-E</u>	
SURVEY	N.M.P.M.		_
COUNTY	LEA		- 701
DESCRIPTION	<i>LEA</i> N <u>330' FSL &</u>	2310' FWL	_JUI
	3907'		,,,
OPERATOR_	MARBOB ENERG	Y CORPORATION	<u>v</u>
LEASE	MOE FEDE	RAL	_
U.S.G.S. TO	POGRAPHIC MAI	5	

HN WEST SURVEYING OBBS, NEW MEXICO (505) 393-3117

EXHIBIT TWO



Moe Federal No. 13 330' FSL & 2310' FWL Section 34, T17S, R32E Lea County, New Mexico

MARBOB ENERGY CORPORATION **DRILLING AND OPERATIONS PROGRAM**

Moe Federal #13 330' FSL & 2310' FWL, Unit N **Section 34, T17S, R32E** Lea 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	1120′	Queen	3590′
Top of Salt	1270'	San Andres	4090'
Base of Salt	2200'	Bone Spring	6000'

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

Queen	3590'	Oil
San Andres	4090'	Oil
Bone Spring	6000'	Oil

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 8 5/8" casing at 1500' 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	
17 1/2"	0 - 400'	13 3/8"	48#	H-40	_
12 1/4"	0 – 2300′	8 5/8"	32#	J-55	
7 7/8"	0 - 500'	5 1/2"	17#	L-80	
7 7/8"	500 ~ 9000'	5 1/2"	17#	J-55	
7 7/8"	9000 10000'	5 1/2"	17#	L-80	

Proposed Cement Program:

13 3/8" Surface Casing:

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

8 5/8" Intermediate Casing: Cement w/ 900 sx Class C. Circulate to surface.

5 1/2" Production Casing:

Cement w/ 750 sx Class H. Attempt to tie in to 8 5/8" csg.

- 5. Pressure Control Equipment: See Exhibit 1. Marbob proposes to nipple up on the 13 3/8" with a 2M system testing to 1000# with rig pumps, then nipple up on the 8 5/8" casing with a 2M system, testing it to 2000# with independent tester.
- 6. Mud Program: The applicable depths and properties of this system are as follows:

Depth	Type	Weight (ppg)	Viscosity (sec)	Waterloss (cc)
0' - 1270'	Fresh Wtr	8.4 – 9.2	32 – 36	N.C.
1270' - 2300'	Brine	9.9 - 10.2	28 - 32	N.C.
2300' – TD	Cut Brine	9.2 - 9.4	30 - 34	10 cc

- 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

Moe Federal #13 330' FSL &2310' FWL, Unit N Section 34, T17S, R32E Lea 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:

Proceed east of Loco Hills approximately 5.6 miles on Hwy 62-180 to State Hwy 529. Take State Hwy 529 to CR 126. Turn south on CR 126 and proceed approximately 3/10 mile. Access road is on the east side of the road.

2. PLANNED ACCESS ROAD:

A new access road of 2046' 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 Moe 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.

2/05/04

Date

Dean Chumbley / Affailer

Landman

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 H_2S 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:

February 4, 2004

Lease #:

NM-110834

Moe Federal

Legal Description: SW/4 Sec. 34-T17S-R32E

Lea County, New Mexico

Formation(s): Pearsall Queen

Bond Coverage: Statewide

BLM Bond File #: 585716

Melanie J. Parker (

Land Department