8054

Form 3160-3 (August 1999) 0265

OCD-ARTESIA

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

EG

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

5. Lease Serial No. NMNM111946

1	1414114141111940
APPLICATION FOR PERMIT TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Name

1a. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name and No.	
1b. Type of Well: ☐ Oil Well Gas Well ☐ Oth		Lease Name and Well No. TOMBSTONE FEDERAL 1	
	MELANIE J PARKER E-Mail: LAND2@MARBOB.COM	9. API Well No.	
	· ·	30-015-33896	
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 CEMETERY-MORROW	
4. Location of Well (Report location clearly and in accorded	ance with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Are	a
At surface SWSE 660FSL 1650FEL	REÇEIVED	Sec 35 T19S R25E Mer NMP SME: BLM	
At proposed prod. zone SWSE 660FSL 1650FEL	JAN 1 3 2005		
14. Distance in miles and direction from nearest town or post	office* OUD-ARTES	12. County or Parish 13. State NM	ė
15. Distance from proposed location to nearest property or	16. No. of Acres in Lease	17. Spacing Unit dedicated to this well	
lease line, ft. (Also to nearest drig. unit line, if any)	320.00	320.00	
 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 10000 TVD		
21. Elevations (Show whether DF, KB, RT, GL, etc. 3456 GL	22. Approximate date work will start 01/15/2004	23. Estimated duration 21 DAYS	
	24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- 1. Well plat certified by a registered surveyor.
- 2. A Drilling Plan.
- 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).

KNOWN Controlled Water Beam

- 5. Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

(Electronic Submission)	Name (Printed/Typed) MELANIE J PARKER Ph: 505-748-3303	Date 12/09/2004
N4L		

LAND DEPARTMENT

Approved by (Signature)

/s/ Joe G. Lara /s/ Joe G. Lara

Title FIELD MANAGER Office CARLSBAD FIELD OFFICE

Name (Printed/Typed)

JAN 12 2005

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 operations thereon.

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 #51753 verified by the BLM Well Information System
For MARBOB ENERGY CORPORATION, sent to the Carlsbad
Committed to AFMSS for processing by LINDA ASKWIG on 12/09/2004 (05LA0169AE)

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

Witness Surface & Intermediate Casing

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

State of New Mexico

DISTRICT I

Energy, Minerals and Natural Resources Department

DISTRICT II
1301 V. GRAND AVENUR, ARTESIA, NM. 88210.

14049

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

3456

DISTRICT III 1000 Bio Brasos Rd., Aztec, NM 87410

DISTRICT IV 1280 S. ST. FRANCIS DR., SANTA FE, NN 8750	WELL LOCATION AND	ACREAGE DEDICATION PLAT	□ AMENDED REPORT
API Number	Pool Code	Pool Name	
	97031	Cemetary; Morrow, SE	
Property Code	Prop	erty Name	Well Number
	TOMBSTO	NE FEDERAL	1
OGRID No.	Oper	ator Name	Elevation

MARBOB ENERGY CORPORATION Surface Location

-	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	0	35	19-S	25-E		660	SOUTH	1650	EAST	EDDY

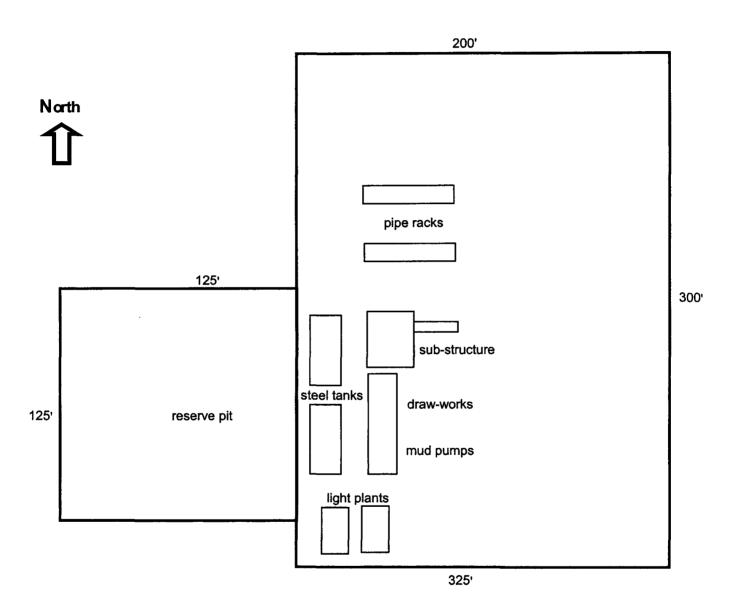
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
						1		:	,
Dedicated Acres Joint or Infili		Consolidation (ode Or	der: No.					
320	1								

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 APPROVED BY THE	2 DIAIZION
	OPERATOR CERTIFICATION
	I hereby certify the the information contained herein is true and complete to the
	best of my knowledge and beliaf.
	Signature Starter
	Melanie J. Parker Printed Name
	Land Department
	December 8, 2004
	SURVEYOR CERTIFICATION
GEODETIC COORDINATES NAD 27 NME	I hereby certify that the well location shown on this plat was piotted from field notes of actual rerveys made by me or under my
Y=586174.9 N X=463546.5 E	supervison, and that the same is true and correct to the best of my belief.
LAT.=32°36'41,20" N LONG.=104°27'06.19" W	NOVEMBER 05, 2004
	Date Surgered Sent of Surveyor And Professional Surveyor
3459.5' 3454.7'	han to so the
1650'	04.11.1432 g
3456.4 3453.0	Certificate No. CART EDEEN 12641

Well Site Lay-Out Plat



Tombstone Federal #1 660' FSL & 1650' FEL, Unit O Section 35-T19S-R25E Eddy County, New Mexico

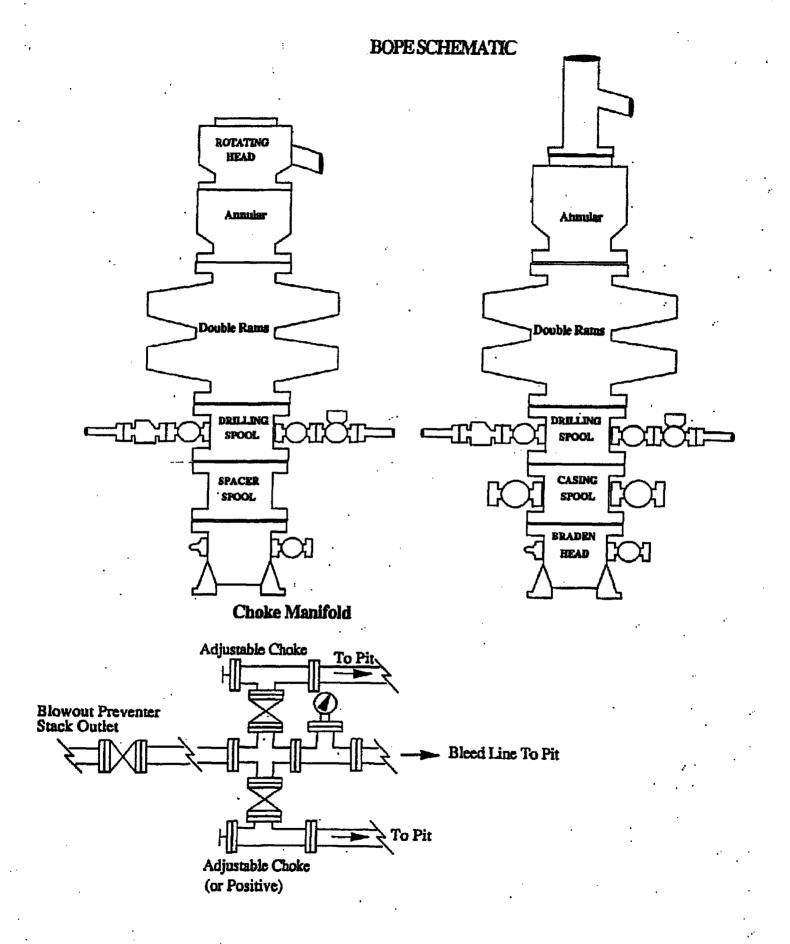


Exhibit One

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:

December 8, 2004

Lease #:

NM 111946

Tombstone Federal

Legal Description: Section 35: S/2

Township 19S - Range 25E Eddy County, New Mexico

Formation(s): Morrow

Bond Coverage: Statewide

BLM Bond File #: 585716

Melanie J. Parker

Land Department

MARBOB ENERGY CORPORATION DRILLING AND OPERATIONS PROGRAM

Tombstone Federal #1 660' FSL & 1650' FEL, Unit O Section 35, T19S, R25E 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:

San Andres	750′	Cisco-Canyon	8250 ′
Glorieta	2400'	Atoka	9000'
Bone Spring	3950'	Morrow	9400'
Wolfcamp	6650'	TD	10000

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

San Andres	750′	Oil
Wolfcamp	6650'	
Cisco Canyon	8250'	
Atoka	9000'	Gas
Morrow	9400'	

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 13 3/8" 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	
17 1/2 "	0 – 325′	13 3/8"	48#	H -4 0	_
12 1/4"	0 - 1000'	9 5/8"	36#	J-55	
8 3/4"	0 - 10000'	5 1/2"	17#	S-95/P110	

Proposed Cement Program:

13 3/8" Surface Casing:

Cement w/ 350 sx Premium Plus. Circulate to surface.

9 5/8" Intermediate Casing: Cement w/ 300 sx cmt. Circulate to surface.

5 1/2" Production Casing:

Cement w/ 600 sx cmt. TOC 500' above all oil/gas bearing

zones.

5. Pressure Control Equipment: See Exhibit 1.

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

•		Weight	Viscosity	Waterloss
Depth	Type	(ppg)	(sec)	(cc)
0 – 325′	Fresh Wtr	_{vs/} 8.4 − 9.2	32 – 36	N.C.
325 – 1000′	Brine 50	_{ys/} 8.4 – 9.2 _{- 1/4} 10	28	N.C.
1000 - 10000'	Cut Brine /z/	8.7 – 9.5	28 – 32	N.C.

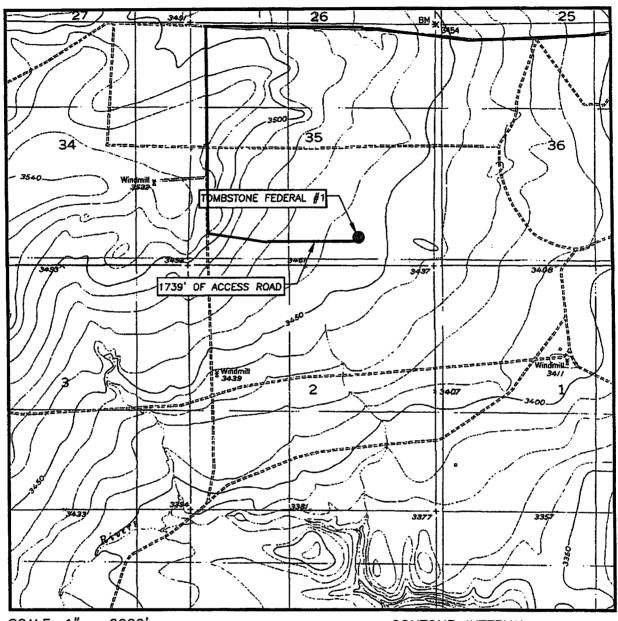
- 7. Auxiliary Equipment: Kelly Cock; Sub with full opening valve on floor; and drill pipe connections.
- 8. Testing, Logging and Coring Program:

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.

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

SEC. 35 TWP. 19-S RGE. 25-E

SURVEY____N.M.P.M.

COUNTY___ EDDY

DESCRIPTION 660' FSL & 1650' FEL

ELEVATION____ <u>3456'</u>

MARBOB ENERGY CORPORATION OPERATOR_

LEASE TOMBSTONE FEDERAL

U.S.G.S. TOPOGRAPHIC MAP

SEVEN RIVERS, N.M.

CONTOUR INTERVAL: SEVEN RIVERS, N.M. - 10'

Existing Access Road Proposed Access Road

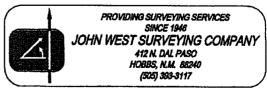


Exhibit Two



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



January 3, 2005

Oil Conservation Division 1301 W. Grand Ave. Artesia, NM 88210

Attention: Bryan Arrant

Re: Tom

Tombstone Federal #1

660' FSL & 1650' FEL, Unit O Section 35, T19S, R25E Eddy County, New Mexico

Dear Bryan:

We plan to complete this well in the Morrow which is sweet and <u>we don't anticipate cutting any formations that contain H2S gas</u> during the drilling of the above referenced well. Therefore, we do not believe that an H2S contingency plan is necessary.

If you have questions or need further information, please call.

Sincerely,

Melanie J. Parker Land Department

/mp