Form 3160-3 (August 1999)

OCD-ARTESIA

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

UNITED STATES

DEPARTMENT OF T	HE INTERIOR		
BUREAU OF LAND M	MANAGEMENT	5. Lease Serial No. NMNM12211	
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, 1	Name and No.
.in 1990 or morn. M starts		, in a surface of the	1,0,0
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Oth	er Single Zone Multiple Zone	Lease Name and Well No. BLIND SQUIRREL FED.	ERAL 1
2. Name of Operator Contact:	MELANIE PARKER	9. API Well No.	
	E-Mail: marbob@marbob.com	30-015- 3367	ر
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 Explore SHUGART-MORROV	atory V
4. Location of Well (Report location clearly and in accorded	ince with any State requirements.*)	11. Sec., T., R., M., or Blk. a	nd Survey or Area
At surface NWSW 1980FSL 990FWL		Sec 33 T18S R31E M	ler NMP
At proposed prod. zone NWSW 1980FSL 990FWL	RECEIVED		
14. Distance in miles and direction from nearest town or post	3L1 2 3 2004	12. County or Parish EDDY	13. State 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	17. Spacing Unit dedicated to	this well
lease line, It. (Also to nearest drig. unit line, if any)	680.00	320.00	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on fi	ile
completed, applied for, on this lease, it.	12400 MD		
21. Elevations (Show whether DF, KB, RT, GL, etc. 3592 GL	22. Approximate date work will start 09/26/2004	23. Estimated duration 21 DAYS	Mary and a
	24. Attachments CAPITA	N CONTROLLED WATE	R BASIN
The following, completed in accordance with the requirements of	f Onshore Oil and Gas Order No. 1, shall be attached to	this form:	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Off 	Item 20 above). em Lands, the 5. Operator certification	ons unless covered by an existing	,
25. Signature	Name (Printed/Typed)	The state of the s	Date
(Electronic Submission)	MELANIE PARKER		08/26/2004
AUTHORIZED REPRESENTATIVE			
Approved by (Signature) /S/ Joe G. Lara	Name (Printed/Typed) /s/ Joe G. Lara		Date SEP 2 7 2004
Title FIELD MANAGER	Office CARLSBAD FIELD		
Application approval does not warrant or certify the applicant ho			
operations thereon. Conditions of approval, if any, are attached.		ROVAL FOR 1 Y	_
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, States any false, fictitious or fraudulent statements or representations.	make it a crime for any person knowingly and willfully to ions as to any matter within its jurisdiction.	make to any department or age	ency of the United

Additional Operator Remarks (see next page)

Electronic Submission #34829 verified by the BLM Well Information System
For MARBOB ENERGY CORPORATION, sent to the Carlsbad
Committed to AFMSS for processing by ARMANDO LOPEZ on 08/27/2004 (04AL0344AE)
APPROVAL SUBJECT TO

GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS **ATTACHED**

1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III
1000 Rio Brazos Road, Aztec, NM 87410 District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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

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

Form C-144

March 12, 2004

Pit or Below-Grade Tank Registration or Closure Is pit or below-grade tank covered by a "general plan"? Yes No Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank

Operator: Marbob Energy Corporation	Telephone: 505-748-3303 e-m	ail address: marbob@marbob.com			
Address: PO Box 227, Artesia, NM 88211-0227	,				
Facility or well name: Blind Squirrel Federal No. 1	ADI 8. II/E or Ote	/Qtr NWSW Sec 33 T18S R 31E			
	· · · · · · · · · · · · · · · · ·				
County: Eddy Latitude Longitude	,	Owner Federal State Private Indian			
Pit Type: Drilling ⊠ Production □ Disposal □ Workover □ Emergency □ Lined ☑ Unlined □ Liner type: Synthetic ☒ Thickness 12 mil Clay □ Volume bbl	Below-grade tank Volume:bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes If no	-			
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points)			
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points) O points			
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points)			
	Ranking Score (Total Points)	0 points			
If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: onsite					

State of New Mexico

DISTRICT I 1625 M. PREMCH DR., HOBBS, NM 08240

Energy, Minerals and Satural Resources Department

DISTRICT II

OIL CONSERVATION DIVISION 1201 W. CRAIG AVERUE, ARTESIA, 101 60210 1220 SOUTH ST. FRANCIS DR.

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

DISTRICT III 1000 Rio Brezos Rd., Axtec, NM 67410 Santa Fe. New Mexico 87505

DISTRICT IV	WELL LOCATION AND	ACREAGE DEDICATION PLAT	O AMENDED REPORT
API Number	Pool Code	Pool Name	
	85300	Shugart Morrow (Gas	s)
Property Code	· · · · · · · · · · · · · · · · · · ·	erty Name RREL FEDERAL	Wall Number
OCRID No. 14049		stor Name GY CORPORATION	Elevation 3592

Surface Location

UL or lot No.	Section	Township	Range	Lot Ida	Peet from the	North/South line	The second of the second	East/West line	County
L	33	18-S	31-E		1980'	SOUTH	9 90 '	WEST	EDDY

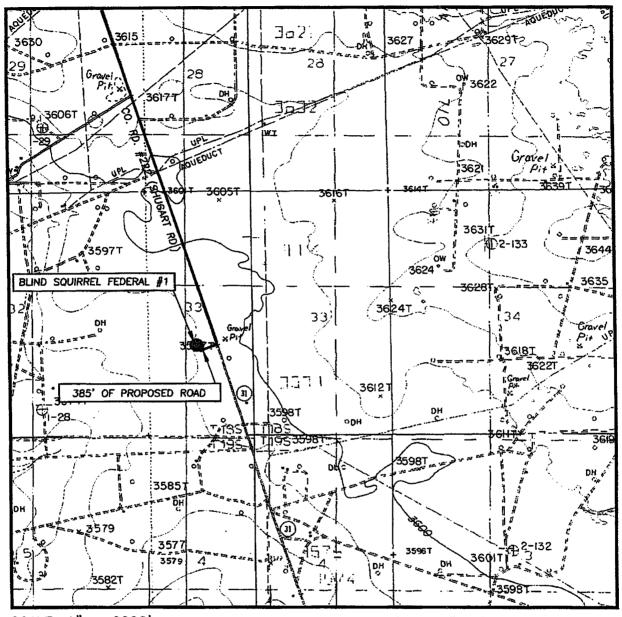
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Rest/Test line	County
Bedicated Acres	Joint o	r Infill C	sosolidation C	ode Or	der No.	21.4			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
GEODETIC COORDINATES NAD 27 NME Y=619398.6 N X=639864.2 E LAT = 32'42'07.21" N LONG = 103'52'45.50" W	OPERATOR CERTIFICATION / hareby certify the the information contested berein is true and complete to the best of my incoledge and better. Signature Melanie J. Parker Printed Name Land Department Title O8/18/04 Date SURVEYOR CERTIFICATION / hereby certify that the unil location shown on this plat was plotted from field notes of actual surveys made by me or under my
3288.3. 2286.0.	JULY 1. 2004 Date Surgered III JR Signature & Sea St Profeshional Suiverse D4.11.0822 Celliffeshi No. GARY EINSEN 12841

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: GREENWOOD LAKE, N.M. - 10'

SEC. 33 TWP. 18-S RGE. 31-E

SURVEY N.M.P.M.

COUNTY____EDDY

DESCRIPTION 1980' FSL & 990' FWL

ELEVATION 3592'

MARBOB ENERGY
OPERATOR CORPORATION

LEASE BLIND SQUIRREL FEDERAL

U.S.G.S. TOPOGRAPHIC MAP GREENWOOD LAKE, N.M.

—— Road

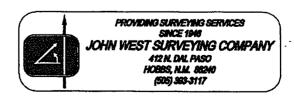


Exhibit Two

MARBOB ENERGY CORPORATION DRILLING AND OPERATIONS PROGRAM

Blind Squirrel Federal #1 1980' FSL & 990' FWL, Unit L Section 33, T18S, R31E 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:

Rustier	664'	Delaware	4340'
Top of Salt	850'	Bone Spring	6500'
Base of Salt	2220'	Wolfcamp	9900'
Yates	2700'	Strawn	10800'
Queen	3330′	Atoka	11150′
San Andres	4070'	Morrow	11750′
		TD	12400'

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

Yates	2700'	Oil
Queen	3330'	Oil
Delaware	4340'	Oil
Bone Spring	6500'	Oil
Wolfcamp	9900'	Oil
Strawn	10800'	Oil
Atoka	11150'	Gas
Morrow	11750'	Gas

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 700' 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 - 700'	13 3/8"	48#	H-40	_
12 1/4"	0 – 4350′	8 5/8"	32#	J - 55	
7 7/8"	0 - 12400'	5 1/2"	17#	S95/P-110	

Proposed Cement Program:

WITNESS 13 3/8" Surface Casing:

Cement w/ 700 sx Class C. Circulate to surface.

8 5/8" Intermediate Casing: Cement w/ 1100 sx Class C. Attempt to tie in to 13 3/8"

csg.

5 1/2" Production Casing:

Cement w/ 750 sx Class C. Will bring TOC 200' above all

oil and gas bearing zones.

5. Pressure Control Equipment: See Exhibit 1. Marbob proposes to nipple up on the 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:

		Weight	Viscosity	Waterloss
Depth	Type	(ppg)	(sec)	(cc)
0 – 700′	Fresh Wtr	8.4 – 9.2	32 – 36	N.C.
700 – 4350′	Cut Brine	9.9 - 10.2	28 – 32	N.C.
4350 - 12500'	Fresh Wtr	8.4 – 8.6 [.]	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.

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 H_2S zone (within 3 days or 500 feet) and weekly H_2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H_2S 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

