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MARBOB ENERGY CORPORATION **DRILLING AND OPERATIONS PROGRAM**

W B O Federal #2 1885' FNL & 1050' FWL, Unit E Section 31, T18S, 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:

Yates	2830′	Delaware	4560'
Seven Rivers	3060′	Bone Springs	6900′
Queen	3660′		

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

Yates	2830′	Oil
Bone Springs	6900′	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 13 3/8" casing at 600' 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 200' above.

4. Proposed Casing Program:

·	Hole Size	Interval	OD Casing	Wt	Grade	Witness Surface & Intermediate Case ::
	17 1/2"	0-600′	13 3/8"	48#	H-40 STC	
	12 ¼″	600-3200'	8 5/8″	32#	J-55 STC	
	7 7/8″	3200-1 ,3000 ′,	5 1/2"	17#	S-95 P-110	
		1000	1T			
Propose	d Cement I	Program: Ulw	8/29/04			
13 3/8″	Surface Ca	sing: Ceme	ent w/ 600	sx Class C.	Circulate to su	urface.

- 8 5/8" Intermediate Casing: Cement w/ 750 sx Class C. Attempt to tie in to 13 3/8" csq.
- 5 1/2" Production Casing: Cement w/ 900 sx Class C. 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'' 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: Operator after softin, surface Q 600' dre. out using fresh water to

,	Solding Store	Weight	Viscosity	Waterloss	top of Rustlor
Depth	Туре	(ppg)	(sec)	(cc)	
	100 ⁶ Fresh Wtr (spud)	8.5	28	N.C.	- @ 1100'
<i> 100′ €®</i> ₽− 3200′	Brine	9.8-10.2	40-45	N.C.	\$K 8/1/06
3200 - 10000'	Cut Brine	8.6-9.4	28-36	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

W B O Federal #2 1885' FNL & 1050' FWL, Unit E Section 31, T18S, 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:

From the intersection of St. HWY. #529 and Co. Rd. L-126 (Maljamar Rd.) go south on Co. Rd. L-126 for approx. 5.0 miles. Turn right and go SouthWest Approx. 0.8 miles. Turn left and go South approx. 0.4 miles (through cattle guard). Turn right and go southwest approx. 0.2 miles. Turn left (through green gate) and go NorthWest approx. 600 feet. This location is approx 150 feet East.

2. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

A. Marbob Energy Corporation proposes a collection facility, if well is productive, to be located on W B O Federal #2 well pad.

3. 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.

4. 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.

5. 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.

6. 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.

7. 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.

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

8. 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 filing of a false statement.

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Marbob Energy Corporation

Nancy T. Bratcher Land Department

MARBOB ENERGY CORPORATION

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

I. HYDROGEN SULFIDE TRAINING

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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 (H₂S).
- 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. <u>H₂S SAFETY EQUIPMENT AND SYSTEMS</u>

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 H_2S circulated to the surface.

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.



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:

Lease #:

July 26, 2006 W B O Federal #2

Legal Description: SWNW Sec. 31-T18S-R32E Lea County, New Mexico

Formation(s): Permian

Bond Coverage: Statewide

BLM Bond File #: NM 2056

Marbob Energy Corporation

Nancy T. Bratcher Land Department



Exhibit One

LOCATION VERIFICATION MAP



EXHIBIT "2"

Well Site Lay-Out Plat



200'

W B O Federal #2 1885' FNL & 1050' FWL Unit E, Sec 31-T18S-32E Lea County, New Mexico

EXHIBIT THREE

CONDITIONS OF APPROVAL - DRILLING

Operator's Name: Marbob Energy Corp Well Name & No. W B O Federal #2 Location: 1885' FNL, 1050' FWL Section 31, T-18-S, R-32-E Lease: NM-23006

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

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B. Cementing casing: <u>13-3/8</u> inch <u>8-5/8</u> inch <u>5-1/2</u> inch

C. BOP tests

2. A Hydrogen Sulfide (H2S) Drilling Plan should be activated prior to drilling into the <u>Queen</u> Formation. A copy of the plan shall be posted at the drilling site.

3 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.

4. Submit a Sundry Notice (Form 3160-5, one original and four 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.

5. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

6. A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales.

7. 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 <u>13-3/8</u> inch surface casing shall be set at <u>600 feet (utilizing the alternative conditions of</u> <u>approval for Lea county</u>), 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. Fresh water must be used to drill to top of Rustler.

2. The minimum required fill of cement behind the <u>8-5/8</u> inch intermediate casing is <u>circulate cement to</u> <u>the surface.</u>

3. The minimum required fill of cement behind the <u>5-1/2</u> inch production casing is <u>cement shall extend</u> <u>upward a minimum of 200 feet into the 8-5/8" casing string.</u>

4. 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 <u>13-3/8</u> 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 shall be <u>1000</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>2M system</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.

ALTERNATIVE CONDITIONS OF APPROVAL - DEPLLING

Drilling Fluids, Casing and Cementing Requirements for Most of Lea County:

Casing and Cementing

Surface casing is to be set at a sufficient depth to protect useable water zones and censent circulated to surface. In areas where the salt section (Salado) is present, surface casing should be set at least 2¹ jectimto the top of the Rustler Anhydrite and cement circulated to the surface.

As an alternative, surface casing may be set through the Santa Rosa Formation or otherpostable water bearing zones and circulate cement to surface. For wells requiring an intermediate casing string, such string shall be cemented to the ground surface. In the case where intermediate casing is not required the operatorshall lease and cement the production hole to the ground surface.

While drilling from the surface casing to the Rustler formation it is recommended that operators periodically sweep the hole with viscous low water loss pills to help build a filter cake across useable water zenes in the redbeds.

Drilling Fluid

Fresh water or fresh water spud mud shall be used to drill to surface casing depth. If surface casing is set at a lesser depth than the top of the Rustler formation., fresh water spud mud may be used to drilldown to the first salt in the Rustler Formation. after which brine or fresh water may be used.

Non-toxic or biodegradable water based polymers, drilling paper, starch and gels may be used in the mud system in order to retard seepage into the redbeds.

Two to five percent diesel or crude oil may be used in the redbed section in order to control heaving shales and mudstones.

Caustics and Lime shall not be used in the red beds but may be added when the Rustler formation is reached. However, sodium carbonate maybe used for alkalinity or ph control while drilling the redteds above the Rustler formation.

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Additionally, questions of whether an additive may be used should be referred to the Roswell Field office.

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1301 W. Grand Avenue, Artesia, NM 88210 <u>District]]1</u> 1000 Rio Brazos Road. Aztec. NM 87410	State of New Mexico Minerals and Natural Resources Dil Conservation Division 220 South St. Francis Dr.	Form C- March 12. For drilling and production facilities, submi appropriate NMOCD District Of The, For downstream facilities, submit to Santa F		
1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505	office		
Is pit or below-grade	Grade Tank Registration or (tank covered by a "general plan"? Yes a pit or below-grade tank Colosure of a pit or b			
Deperator: Marbob Energy Corporation	Telephone: 505-748-3303	c-mail address: landtech@rn arbob.com		
Address: PO Box 227, Artesia, NM 88211-0227	_			
facility or well name: W B O Federal #2	API #: 30-025 38/09 U/L or Qtr/Qtr	SWNW Sec 31 T185 R 32E		
County; Lea LatitudeLongitude	NAD: 1927 🔲 1983 🔲 Suri	face Owner Federal 🛛 State 📋 Private 门 Indian 🗔		
It Ivpe: Disposal Image: Disposal Workover Emergency ined Unlined iner type: Synthetic Image: Thickness 12 mil Clay Volume bhl bhl	Below-grade tank Volume:bbl Type of fluid; Construction material: Double-walled, with leak detection? Yes			
Depth to ground water (vertical distance from bottom of pit to seasonal h vater elevation of ground water.)	igh Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points) 0 poin ts		
Vellhead protection area: (Less than 200 feet from a private domestic vater source, or less than 1000 feet from all other water sources.)	Yes Na	(20 points) (0 points) 0 poin ts		
Distance to surface water: (horizontal distance to all wetlands, playas, rigation canals, ditches, and perennial and ophemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points) 0 point:s		
	Ranking Score (Total Points)	0 points		
If this is a pit closure: (1) attach a diagram of the facility showing the ponsite onsite onfisite if offisite, name of facility date. (4) Groundwater encountered: No Yes If yes, show depth diagram of sample locations and excavations.		dial action taken including remediation start date and end		
hereby certify that the information above is true and complete to the bes searwill be constructed or closed according to NMOCD guidelines [ate: July 26, 2006	t of my knowledge and belief. I further certify t , a general permit 🛛 , or ao (attached) alterna	hat the above-described pit or below-, rade tank has ative OCD-approved plan		
inted Name/Title: Nancy T. Bratcher / Land Departm	nent Signature / M. U.M. T.	Bratcher/		
our certification and NMOCD approval of this application/closure does herwise endanger public health or the environment. Nor does it relieve gulations.	not relieve the operator of list iter should de	tents of the pit or tank contaminate ground water or vith any other federal, state, or local law ind/or		
pproval: ne: <u>/0/12/06</u> inted Name/Title <u>CHR/KS WINUL/ArmS-D187</u> Se	WW Signature_ Chiro US	llam		