If earthen pits are used in association with the drilling of this and Avenue well, an OCD pit permit must be obtained prior to pit construction.

s. DIV-Dist. 2

Expires January 31, 2004

CZIU	5. Lease Serial No.	
	NMLC029395A	

APPLICATION FOR PERMIT TO DI	RILL OR R	EENTER		6. If Indian, Allotted	e or Tribe	e Name
la. Type of Work: DRILL REENTE	R	77	120	7. If Unit or CA Agr	eement, N	Name and No.
1b. Type of Well: Oil Well Gas Well Other	<b>⊠</b> s	んり ingle Zone 🔲 Multip	429 ple Zone	8. Lease Name and W Tony Federal #31	Vell No.	
2. Name of Operator  Marbob Enery Corporation /4049				API Well No.	5-1	34674
3a. Address	3b. Phone No	o. (include area code)	,	10. Field and Pool, or	Explorat	ory
P.O. Box 227, Artesia, NM 88211-0227	505-748-33	03 969	831	Cedar Lake Yeso		
4. Location of Well (Report location clearly and in accordance with	any State requi	rements. *)	- , ,	11. Sec., T., R., M., o	r Blk. and	Survey or Area
At surface 2310' FNL & 1650 FEL						
At proposed prod. zone				  Sec 19 T17S R31E	NMPM	
14. Distance in miles and direction from nearest town or post office*		RECEIVED		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)  18. Distance from proposed location* to nearest well, drilling, completed,			40.00	g Unit dedicated to this	well	
applied for, on this lease, ft.	6000 <sup>,</sup>		585716 (I	NM 2056)		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	imate date work will st	art*	23. Estimated duration	on	
3622' GL	12/17/200	5		14 Days		
	24. Atta	chments				
The following, completed in accordance with the requirements of Onsho	ore Oil and Gas	Order No.1, shall be att	ached to thi	s form:		
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).</li> </ol>		4. Bond to cover the Item 20 above). 5. Operator certification	e operation ation. pecific info	s unless covered by an ormation and/or plans		`
25. Signature	Name	(Printed/Typed)			Date	
1 Janey Bratches	Nanc	y Bratcher			11/17/	05
Title						

Land Department

Approved by (Signature) /s/ Joe G. Lara Name (Printed:Typed)

MAR 0 7 2006

Title FIELD MANAGER

/s/ Joe G. Lara Office CARLSBAD FIELD OFFICE

Application approval does not warrant or 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.

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.

\*(Instructions on reverse)

Roswell Controlled Water Basin

Witness Surface Casing

APPROVAL SUBJECT TO General requirements and SPECIAL STIPULATIONS ATTACHED

## State of New Mexico

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

Energy, Minerals and Natural Resources Department

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 88210 OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

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

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

DISTRICT IV

Form C-102

DISTRICT IV 1220 S. ST. FRANCIS DR., SANTA PE, NM 87505	WELL LOCATION AND AC	REAGE DEDICATION PLAT	□ AMENDED REPORT
API Number	Pool Code	Pool Name	
4	96831	CEDAR LAKE YESO	
Property Code	Property	Name	Well Number
23629	TONY FI	EDERAL	31
OGRID No.	Operator		Elevation
14049	MARBOB ENERGY	CORPORATION	3622'

### Surface Location

-	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	G	19	17-S	31-E		2310	NORTH	1650	EAST	EDDY

### Bottom Hole Location If Different From Surface

UL or lot No.	Section 1	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or	Infill Cor	solidation C	ode Ord	ler No.				
40		ļ							

# 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

LOT 1	7/11/11/	OPERATOR CERTIFICATION  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.  Signature
32.51 AC. LOT 3	3628.6' 3628.6' 1650'————————————————————————————————————	Nancy Bratcher  Printed Name Land Department  Title November 17, 2005  Date  SURVEYOR CERTIFICATION  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 belief.
32.61 AC.	GEODETIC COORDINATES  NAD 27 NME  Y=662573.1 N  X=631494.3 E  LAT.=32*49'14.77" N  LONG.=103*54'19.07" W	OCTOBER 18, 2005  Date Surveyed JR  Signature & Seal of / Date Professional Surveyor Date Professional

District I
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 office

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: Re	egistration of a pit or	r below-grade tank 🗵	Closure of a pit or	below-grade	tank 🔲	
Operator: Marbob Energy Corporation		Telephone: 50	5-748-3303	e-mail	address: la	nd2@marbob.com
Address: PO Box 227, Artesia, NM 88211-	0227				2310	FNL & 1650' FEL
Facility or well name: Tony Federal #31	API#: <b>30-</b>	015-	U/L or Qtr/Qtr	SWNE	Sec 19 7	r <b>17S</b> R <b>31E</b>
County: <b>Eddy</b> Latitude	Longitude	NAD	: 1927 🔲 1983 🔲	Surface Own	ner Federal 🛭	State Private Indian
<u>Pit</u>		Below-grade tank				
Type: Drilling ☑ Production ☐ Disposal ☐		Volume:bbl	Type of fluid:			
Workover ☐ Emergency ☐		Construction materia	ıl:			RECEIVED
Lined ☑ Unlined ☐		Double-walled, with	leak detection? Ye	es 🔲 If not,	explain why	not. NOV 1 8 2005
Liner type: Synthetic ☑ Thickness 12 mil Clay ☐ V	olume/					- OUL MATERIA
bbl						
		Less than 50 feet	<del>-</del>		(20 points)	
Depth to ground water (vertical distance from bottom of p	it to seasonal high	50 feet or more, but	less than 100 feet		(10 points)	
water elevation of ground water.)		100 feet or more			( 0 points)	0 points
W.W. 1		Yes			(20 points)	
Wellhead protection area: (Less than 200 feet from a priv water source, or less than 1000 feet from all other water so		No			( 0 points)	0 points
water source, or less than 1000 feet from all other water so	ources.)					
Distance to surface water: (horizontal distance to all wetl-	ands, playas,	Less than 200 feet			(20 points)	
irrigation canals, ditches, and perennial and ephemeral wa		200 feet or more, bu	t less than 1000 feet	t	(10 points)	
		1000 feet or more			( 0 points)	0 points
		Ranking Score (To	tal Points)			0 points
If this is a pit closure: (1) attach a diagram of the facili	ty showing the pit's	relationship to other e	quipment and tanks	(2) Indicate	disposal loca	ation:
onsite offsite from If offsite, name of facility		(3) Attach a gene	ral description of re	medial action	ı taken includ	ding remediation start date and end
date. (4) Groundwater encountered: No 🗌 Yes 🔲 If y						
diagram of sample locations and excavations.						
I hereby certify that the information above is true and combeen/will be constructed or closed according to NMOC Date: November 17, 2005  Printed Name/Title: Nancy T. Bratcher / La Your certification and NMOCD approval of this application otherwise endanger public health or the environment. No regulations.	CD guidelines, a  nd Departmen  on/closure does not i	general permit , on  t relieve the operator of	r an (attached) alto Signature_ liability should the	contents of the	D-approved  Color T  De pit or tank	plan  contaminate ground water or
Approval: Date: 11/22/05 Printed Name/Title Miles State har #	list I	Signature <b>W</b>	Sarcus			

# MARBOB ENERGY CORPORATION DRILLING AND OPERATIONS PROGRAM

# Tony Federal No. 31 2310' FNL and 1650' FEL Section 19-T17S-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 Alluvium:
- 2. The estimated tops of geologic markers are as follows:

Yates	1225′
Seven Rivers	1340'
Queen	2430'
Grayburg	2804'
San Andres	3134'
Glorieta	4524'

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

Water:

Approximately 200'

Oil or Gas:

Approximately 2078'

# 4. Proposed Casing Program:

Hole Size	Interval	OD Casing	Wt	Grade
17 1/2"	0 – 400′	13 3/8"	48#	J-55
12 1/4"	0 - 1320'	8 5/8"	24#	J-55
7 7/8"	0 – TD	5 1/2"	17#	J-55

# **Proposed Cement Program:**



13 3/8" Surface Casing:

Cement w/350 sx Class C. Circulate to surface.

8 5/8" Intermediate Casing: Cement w/ 350 sx Class C. Circulate to surface.

5 1/2" Production Casing:

Cement w/ 750 sx Class C. TOC 200' 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:

Depth	Туре	Weight (ppg)	Viscosity (sec)	Waterloss (cc)
0 - 400'	Fresh Water	8.5	28	N.C.
400 – 1320′	Brine	9.8 - 10.2	40 – 45	N.C.
1320 - 6000'	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

# Tony Federal No. 31 2310' FNL and 1650' FEL Section 19-T17S-R31E 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 3 is a portion of Topo map showing the well and roads in the vicinity of the proposed location. The proposed wellsite and the access route to the location is indicated in red on Exhibit 3. The proposed flowline route is indicated in blue on Exhibit 3.

### **DIRECTIONS:**

From The Intersection Of U.S. Hwy #82 and Co. Rd. #221 (Skelly Rd.) Go East on U.S. Hwy. #82 for Approx. 1.0 Miles. Turn Left (NE) and Go Approx. 2.0 Miles. Turn Left (NW) and Go Approx. 0.08 Miles. Turn Left (West) and Go Approx. 0.4 Miles. This Location Is Approx. 300' South.

# 2. PLANNED ACCESS ROAD:

A new access road of 184' 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 Bonanza Federal Com #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:

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- 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 vour 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

В. 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 filing of a false statement.

11/17/05

Melanie J. Parker

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  $(H_2S)$ .
- B. The proper use and maintenance of personal protective equipment and life support systems.
- C. The proper use of H<sub>2</sub>S 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 H<sub>2</sub>S 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<sub>2</sub>S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H<sub>2</sub>S zone (within 3 days or 500 feet) and weekly H<sub>2</sub>S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H<sub>2</sub>S 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 H<sub>2</sub>S 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 H<sub>2</sub>S.

# 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. H<sub>2</sub>S detection and monitoring equipment:

2 - portable H<sub>2</sub>S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H<sub>2</sub>S 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.

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 H<sub>2</sub>S service.

# G. Communication:

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

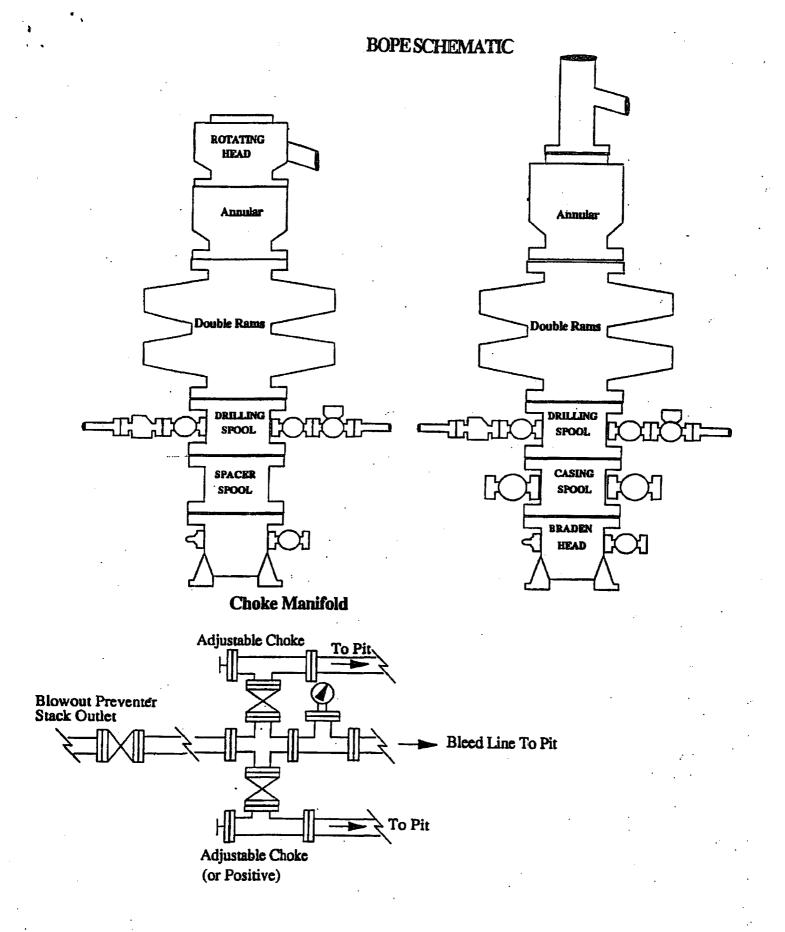
# WARNING

# YOU ARE ENTERING AN H<sub>2</sub>S AREA AUTHORIZED PERSONNEL ONLY

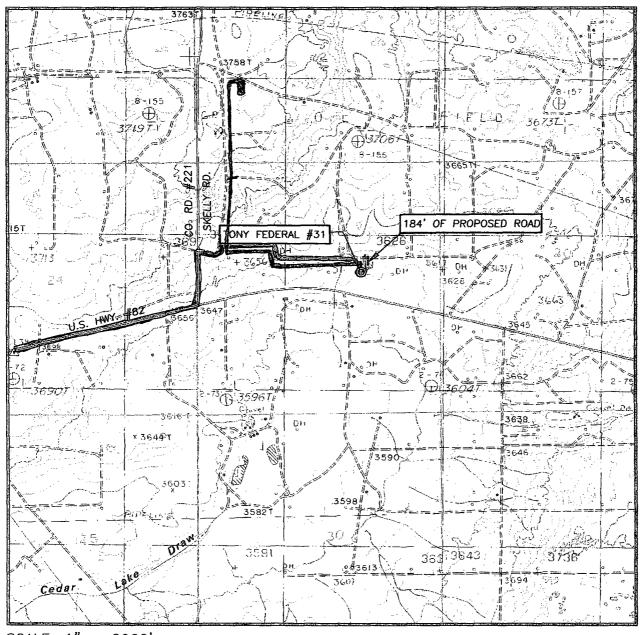
- 1. BEARDS OR CONTACT LENSES NOT ALLOWED
- 2. HARD HATS REQUIRED
- 3. SMOKING IN DESIGNATED AREAS ONLY
- 4. BE WIND CONSCIOUS AT ALL TIMES
- 5. CK WITH MARBOB FOREMAN AT MAIN OFFICE

# MARBOB ENERGY CORPORATION

1-505-748-3303



# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

SEC. 19 TWP. 17-S RGE. 31-E

SURVEY N.M.P.M.

COUNTY\_\_\_\_EDDY

DESCRIPTION 2310' FNL & 1650' FEL

ELEVATION\_\_\_\_\_3622'

MARBOB ENERGY
OPERATOR CORPORATION

LEASE TONY FEDERAL

U.S.G.S. TOPOGRAPHIC MAP LOCO HILLS, N.M.

CONTOUR INTERVAL: LOCO HILLS, N.M. - 10'

Proposed Access Road

Existing Roads
Flow Line

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

Exhibit Two



### **CONDITIONS OF APPROVAL - DRILLING**

Operator's Name: Marbob Energy Corporation

Well Name & No. Tony Federal #31

Location: 2310' FNL, 1650' FEL, Section 19, T. 17 S., R. 31 E., Eddy County, New Mexico

Lease: LC-029395-A

### I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 361-2822 for wells in Eddy County in sufficient time for a representative to witness:

- A. Well spud
- 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 Operation Contingency Plan shall be activated prior to drilling into the **Queen** 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 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.
- 5. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

## II. CASING:

- 1. The <u>13-3/8</u> inch surface casing shall be set at <u>approximately 400 feet or 25 feet into the Rustler Anhydrite or in the case the salt occurs at a shallower depth, above the top of the salt. The surface casing shoe shall be set in the anhydrite to ensure adequate sealing. The operator is required to use an excess of 100% cement volume to fill the annulus. If cement does not circulate to the surface the operator may then use ready-mix cement to fill the remaining annulus.</u>
- 2. The minimum required fill of cement behind the <u>8-5/8</u> inch intermediate casing is <u>to be circulated to the surface</u>.
- 3. The minimum required fill of cement behind the <u>5-1/2</u> inch production casing is <u>to reach at least 200</u> feet above the top of the uppermost hydrocarbon bearing interval or to the base of the salt.

# **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) shall be **2000** psi.

- 3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.
- 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.

11/28/2005 acs