Form 3160-3 (September 2001) M. O'l Cons DIV-Dist. 2 130 No 3 mad Avenus

FORM APPROVED OMB No. 1004-0136 Expires January 31, 2004

6. If Indian, Allottee or Tribe Name

DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

•	 1.0 PM
	LC-058362

APPLICATION FOR PERMIT TO DI	RILL OR REENTER			
la. Type of Work: DRILL REENTE	ER	34537	7. If Unit or CA Agree	789 X
1b. Type of Well:	☐ Single Zone	Multiple Zone	8. Lease Name and We Dodd Federal Unit #	
	- Single Solle	manple zene	9. API Well No.	J14
2. Name of Operator Marbob Energy Corporation			30-015-	34564
3a. Address	3b. Phone No. (include ar	ea code)	10. Field and Pool, or E	
PO Box 227, Artesia, NM 88211-0227	505-748-3303	28509	GRBG JACKSON SI	R Q GRBG SA
4. Location of Well (Report location clearly and in accordance with	any State requirements. *)		11. Sec., T., R., M., or	Blk. and Survey or Area
At surface 250' FSL 2310' FEL Non-Sta	ndard Location			
At proposed prod. zone SUBJECT TO LI	KE APPROVAL BY	STATE	Sec. 11, T-17S, R-29	E
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State
			Eddy	NM
15. Distance from proposed* location to nearest	16. No. of Acres in lease	e 17. Spacin	g Unit dedicated to this w	rell
property or lease line, ft. (Also to nearest drig. unit line, if any)		40		RECEIVED
property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location*	19. Proposed Depth		BIA Bond No. on file	``
property or lease line, ft. (Also to nearest drig. unit line, if any)	, ,	20. BLM/I	BIA Bond No. on file	DEC 1 6 2005
property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	5000'	20. BLM/l 858716		DEC 1 6 2005
property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.)	5000' 22. Approximate date w	20. BLM/l 858716	23. Estimated duration	DEC 1 6 2005
property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	5000' 22. Approximate date w July 9, 2005	20. BLM/l 858716 vork will start*	23. Estimated duration	DEC 1 6 2005
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Land Department

Approved by (Signature) Joe G. Lara

Name (Printed Typed Joe G. Lara

DEC 1 4 2005

ACTING FIELD MANAGER

CARLSBAD FIELD OFFICE 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

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)

Witness Surface Casing

APPROVAL SUBJECT TO CENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

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

State of New Mexico

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

Energy, Minerals and Natural Resources Department

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

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

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

LC-058362

DISTRICT IV

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

1220 S. ST. FRANCIS DR., SANTA FE, NM 670	WELL LUCATION AND	ACKEAGE DEDICATION PLAT	☐ AMENDED REPORT
API Number	Pool Code	Pool Name	
	28509	GRBG JACKSON SR Q GR	RBG SA
Property Code		perty Name EDERAL UNIT	Well Number 514
ogrid no. 14049	MARBOB ENE	Elevation 3629'	

Surface Location

į	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	0	11	17-S	29-E		250	SOUTH	2310	EAST	EDDY
-	Rottom 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
Dedicated Acre	s Joint o	or Infill Co	nsolidation	Code Or	der No.		1		I

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OD A NON-STANDARD UNIT HAS BEEN ARRESTED BY THE DIVISION

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY	THE DIVISION
	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and betief. Signature
GEODETIC COORDINATES NAD 27 NME Y=670293.7 N X=588906.0 E LAT.=32'50'32.60" N LONG.=104'02'37.89" W	AMY REID Printed Name LAND DEPARTMENT Title JUNE 9, 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.
DETAIL 3627.9' 3635.8' 600' SEE DETAIL 3628.3' 3633.3' 3633.3' 3633.3'	Date Startyell Do DEL Signature & Sant por Professional Success 12641 12641 Certificing Profession 12641

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

, 1

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 \(\subseteq \) No \(\subseteq \)

If action: Registration of a pit or below-grade tank \(\subseteq \) Closure of a pit or below-grade tank \(\subseteq \)

Operator: Marbob En			Telephone: 505-748-3303	e-mail address: marbob@marbob.com
-	•	44 0007	reteptione: 303-7-40-3303	e-man address. Mai bob emai bob.com
	7, Artesia, NM 882			
Facility or well name: Do	odd Federal Unit #	514	API#:U/L or 0	Qtr/Qtr SWSE Sec 11 T 18S R 29E
County: Eddy	Latitude	Longitude	NAD: 1927 🗖 1983 🗖 S	Surface Owner Federal 🛛 State 🗌 Private 🔲 Indian 🗌
Pit			Below-grade tank	
Type: Drilling ☑ Produc	•		Volume:bbl Type of fluid:	RECEIVED
Workover	ergency 🔲		Construction material:	<u> </u>
Lined Unlined		-	Double-walled, with leak detection? Yes	If not, explain why no DEC 1 6 2005
Liner type: Synthetic ☑ ′	Thickness 12 mil Clay	∐ Volume		OUL PARTESIA
Denth to ground water (ve	ertical distance from botton	n of nit to seesonal high	Less than 50 feet	(20 points)
water elevation of ground		n of pit to seasonal high	50 feet or more, but less than 100 feet	(10 points)
Water ere vaccour or Broance			100 feet or more	(0 points) 0 points
Wellhead protection area:	(Less than 200 feet from a	a private domestic	Yes	(20 points)
-	1000 feet from all other wa	_	No	(0 points) 0 points
Distance to surface water	· (harizante) distance to all	wotlands playes	Less than 200 feet	(20 points)
	 (horizontal distance to all and perennial and ephemer 		200 feet or more, but less than 1000 feet	(10 points)
			1000 feet or more	(0 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 🔲 offsite 🔲 If o	offsite, name of facility	· · · · · · · · · · · · · · · · · · ·	(3) Attach a general description of ren	nedial action taken including remediation start date and end
date. (4) Groundwater en	ncountered: No 🗌 Yes 🗀	If yes, show depth belo	w ground surfaceft. and att	ach sample results. (5) Attach soil sample results and a
diagram of sample locati	ons and excavations.			
I hereby certify that the in been/will be constructed Date: October 19, 200-	or closed according to N	d complete to the best of MOCD guidelines □, a	my knowledge and belief. I further certify general permit ⊠, or an (attached) alter	y that the above-described pit or below-grade tank has native OCD-approved plan .
Printed Name/Title:	Amy Reid / Land De	epartment	Signature ()	$L(\rho_1 X)$
				ontents of the pit or tank contaminate ground water or with any other federal, state, or local laws and/or
Approval: Date: (3-20-05) Printed Name/Title	Gerry Gu Complian	ye ce Officer	Signature Derry Sur	
			•	

MARBOB ENERGY CORPORATION **DRILLING AND OPERATIONS PROGRAM**

Dodd Federal Unit #514 250' FSL & 2310' FEL, Unit O **Section 11, T17S, R29E 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:

Yates	830′	Queen	1765'
Grayburg	2078′	San Andres	2418′
Glorieta	3888′	Yeso	3954'

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

Water	200′	
Oil or Gas	2078'	

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 375 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	
12¼"	0 – 375′	8 5/8"	24#	J-55	HIMESS
7 7/8"	0-5000'	5 1/2"	17#	J-55	

Proposed Cement Program:

8 5/8" Surface Casing: Cement w/ 300 sx of Class C w/2% cc.

5 1/2" Production Casing: Cement w/ 1100 sx Class C. TOC to be 500' above all oil and gas bearing zones.

- 5. Pressure Control Equipment: See Exhibit 1.
- 6. Mud Program: The applicable depths and properties of this system are as follows:

t

Depth	Туре	Weight (ppg)	Viscosity (sec)	Waterloss (cc)
0 – 350′	Fresh Wtr	8.5	48	N.C.
350- 4800 ⁴ /	Brine	9.8-10.2	40-45	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

Dodd Federal Unit #514 250' FSL & 2310' FEL, Unit O Section 11, T17S, R29E 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 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 US HWY. #82 and Eddy County Rd. #215 (Kewanee Rd.) Go north on Co. Rd. #215 approx. 1.5 miles. Turn left and go west approx. 0.4 miles to proposed road survey. This location is approx. 174' south.

2. PLANNED ACCESS ROAD:

174' of access road

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.

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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.

8. 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

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9. 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.

6-9-2005

Date

Dean Chumbley

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 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.

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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

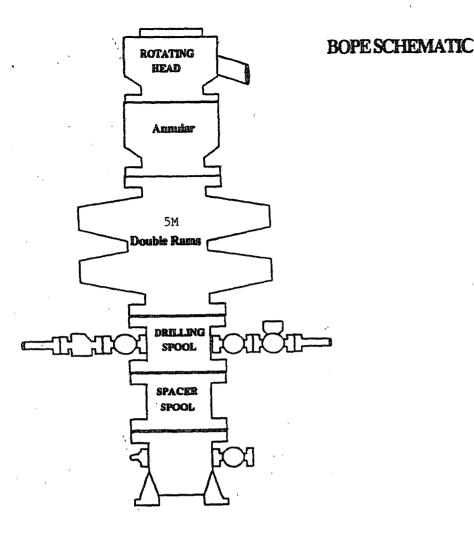
YOU ARE ENTERING AN H₂S AREA AUTHORIZED PERSONNEL ONLY

- 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

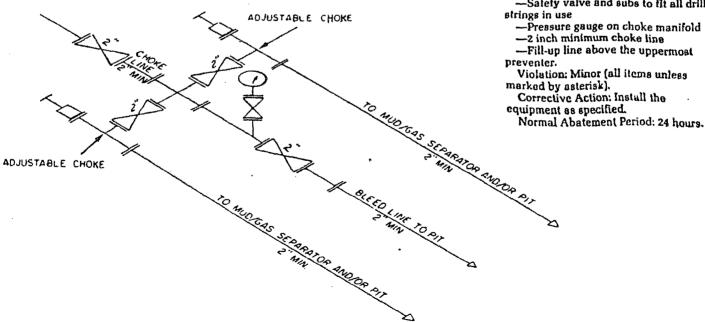
MARBOB ENERGY CORPORATION

1-505-748-3303

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ONSHORE OIL AND GAS ORDER NO. 2



2M Double Rams BRADEN HEAD

2M system:

-Annular preventer, or. double ram, or two rams with one being blind and one being a pipe ram *

-Kill line (2 inch minimum)

-1 kill line valve (2 inch minimum)

-1 choke line valve

-2 chokes (refer to diagram in

Attachment 1)

-Upper kelly cock valve with handle available

-Safety valve and subs to fit all drill

-Pressure gauge on choke manifold

-2 inch minimum choke line

-Fill-up line above the uppermost

Violation: Minor (all items unless

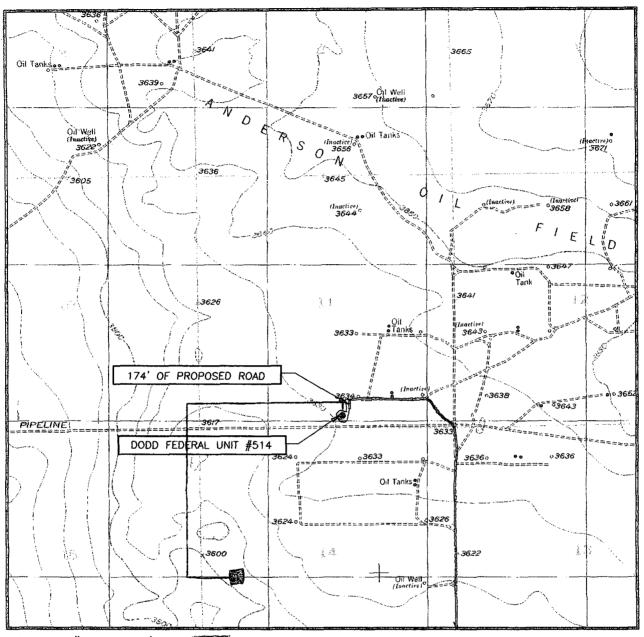
marked by asterisk).
Corrective Action: Install the

equipment as specified.

2M CHOKE MANIFOLD EQUIPMENT — CONFIGURATION OF . CHOKES

Exhibit One

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

RED LAKE SE, N.M.

REDU- ACCESS ROAD

CONTOUR INTERVAL: RED LAKE SE, N.M. - 10'

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 250' FSL & 2310' FEL

ELEVATION 3629'

MARBOB ENERGY
CORPORATION

SEC. 11 TWP. 17-S RGE. 29-E

LEASE DODD FEDERAL UNIT
U.S.G.S. TOPOGRAPHIC MAP

EXHIBIT TWO

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 383-3117

CONDITIONS OF APPROVAL - DRILLING

Operator's Name: Marbob Energy Corporation
Well Name & No. Dodd Federal Unit #514

Location: 250' FSL, 2310' FEL, Section 11, T. 17 S., R. 29 E., Eddy County, New Mexico

Lease: LC-058362

I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Carlsbad Resource Area 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: 8-5/8 inch 5-1/2 inch.
- C. BOP testing
- 2. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.
- 3. 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.
- 4. 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.

II. CASING:

- 1. The <u>8-5/8</u> inch surface casing shall be set at <u>approximately 375 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>5-1/2</u> inch production casing is to be sufficient to place the top of the cement 500 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>8-5/8</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 requested variance to test the BOPE to the reduced pressure of **1000 psi** using the rig mud pumps is approved. (Sundry Notice dated 5/25/99 and approved 6/16/99.)
- 4. Testing fluid must be water or an appropriate clear liquid suitable for sup-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- 5. Testing must be done in a safe workman-like manner. Hard line connections shall be required.

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