Form 3160-3 (September 2001)

OCD-ARTESIA

G-06-07 4/5/00

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

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

la. Type of Work: DRILL REENTER			7		7. If Unit or CA Agre	eement, Name and No.	_
			J57	094	8 Lease Name and W	/all No	_
1b. Type of Well:	⊘ ls	ingle Zone	Multi	ple Zone	Save D A 28 Federa	***	
2 Name of Operator					9. API Well No.	1171	_
Marbob Energy Corporation /4049						-34851	
	3b. Phone No	o. (include a	rea code		10. Field and Pool, or	Exploratory	_
P.O. Box 227, Artesia, NM 88211-227	505-748-33	303	960	53	Wildcat; Bone Spri	ng	
4. Location of Well (Report location clearly and in accordance with an	y State requ	irements. *)	HECE	ΛĒŪ	11. Sec., T., R., M., or	Blk. and Survey or Area	ī
At surface 660' FNL & 1980' FEL			MAY 1	O 2006			
At proposed prod. zone		i.		itæaus	Sec. 28, T-25S R-29)E	
14. Distance in miles and direction from nearest town or post office*				m to be the state of	12. County or Parish	13. State	
Sand de la company de la compa	1000 <u>Com</u>	all frage	in Eta	er. Di	Eddy County	NM	
15. Distance from proposed* location to nearest	16. No. of A	Acres in leas	e	17. Spacing	g Unit dedicated to this	well	
property or lease line, ft. (Also to nearest drig. unit line, if any)				40.00			
18. Distance from proposed location*	19. Propose	ed Depth		20. BLM/E	BIA Bond No. on file		_
to nearest well, drilling, completed, applied for, on this lease, ft.	9500'			NM 2056			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	imate date	work will s	tart*	23. Estimated duration	on	_
2951'	May 4, 20	06			21 Days		
	24. Atta	chments	1.	-			
The following, completed in accordance with the requirements of Onshore	Oil and Gas	Order No.1	, shall be att	tached to this	s form:		_
Well plat certified by a registered surveyor.		l 4 Bond	to cover th	e operations	s unless covered by an	existing bond on file (se	ee
2. A Drilling Plan.		ltem	20 above).	•	. 	(5)	••
3. A Surface Use Plan (if the location is on National Forest System I	ands, the		tor certific			1 1	
SUPO shall be filed with the appropriate Forest Service Office).		ľ	other site s rized office	•	ormation and/or plans a	as may be required by the	he
25. Signature	Name	(Printed Ty	ped)			Date	=
Dancer L. P. Michon	Nanc	y T. Bratc	her			4/4/2006	
Title							_
Land Department							
Approved by (Signature) /s/ James Stovall	Name	e (Printed:T)		mes Sto	nvall	PMAY 0 8 2006	
Title PCTING MANAGER	Offic	e			/ V.M.41		_
FIELD MANAGER		- A III	LSBA	D FIEL	D OFFICE		
Application approval does not warrant or certify that the applicant holds le operations thereon.	gal or equita	ble title to th	ose rights in	n the subject	lease which would entit	e the applicant to gonduc	:t
operations mercon.							

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)

Conditions of approval, if any, are 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.

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

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

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III

DISTRICT IV 1220 S. ST. FRANCIS DR., SANTA FR. NM 87505	WELL LOCATION AND	ACREAGE DEDICATION PLAT	□ AMENDED REPORT	
API Number	Pool Code	Pool Name		
	96715	WILDCAT; BONE	SPRING	
Property Code	Prop	perty Name	Well Number	

ber SAVE D A 28 FEDERAL 1 OGRID No. Operator Name Elevation MARBOB ENERGY CORPORATION 14049 2951'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
В	28	25-S	29⊢E	:	660	NORTH	1980	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
Dedicated Acres	Joint or	Infill Co	nsolidation (ode Ord	ler No.				
40									

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
2947.9'	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature Date Nancy T. Bratcher Printed Name SURVEYOR CERTIFICATION
GEODETIC COORDINATES NAD 27 NME Y=402533.2 N X=607325.8 E	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 supervision, and that the same is true and correct to the best of my belief.
LAT.=32°06'22.34" N	MARCH 13, 2006
LONG. = 103'59'12.18" W	Date Surveyed Signature & Seal of Professional Surveyor Dan A

MARBOB ENERGY CORPORATION DRILLING AND OPERATIONS PROGRAM

Save D A 28 Federal #1 660' FNL & 1980' FEL, Unit B Section 28, T25S, 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:

Rustler	578′	Delaware	2978'
TOS	688'	Bone Springs	6752'
BOS	2723′	TD	9500'

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

Rustler	578′	Oil
Bone Springs	6752'	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 17 1/2" casing at 578' 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 7 7/8" production casing which will be run at TD to sufficiently cover all known oil and gas horizons 200' above.

4. Proposed Casing Program:

Hole	e Size	Interval	OD	Wt	Grade	
			Casing			
	17 1/2"	0-350′	13 3/8"	48#	H-40	
	12 ¼"	350-2750'	8 5/8"	24#	J-55	
	7 7/8"	2750-9500'	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/ 700 sx Class C. Circulate to surface.

5 1/2" Production Casing: Cement w/ 500 sx Class C. 200' above all oil & gas zones.

5. Pressure Control Equipment:

See Exhibit #1. Marbob proposes to nipple up on the 17 1/2" casing with a 2M system, testing it to 1000# with rig pumps, then nipple up on the 7 7/8" 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 - 350'	Fresh Water	8.5	28	N.C.
	350 - 2750'	Brine	9.8-10.2	40-45	N.C.
	2750 - 9500'	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

Save D A 28 Federal #1 660' FNL & 1980' FEL, Unit B Section 28, T25S, 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 green on Exhibit 2.

DIRECTIONS:

From the intersection of U.S. Highway #285 and Co. Rd. #725 (Whitehorn Rd.) go east on Co. Rd. #725 approx. 4.0 miles. Turn left (NE) and go approx. 1.8 miles, turn left (North) and go approx 0.9 miles to a proposed road survey. Follow proposed road survey west approx. 1821' to this location.

2. PLANNED ACCESS ROAD:

A new access road of 1821" 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 Save D A 28 Federal #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:

- 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 your 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 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

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.

Date

Nancy T. Bratcher Land Department

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.

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

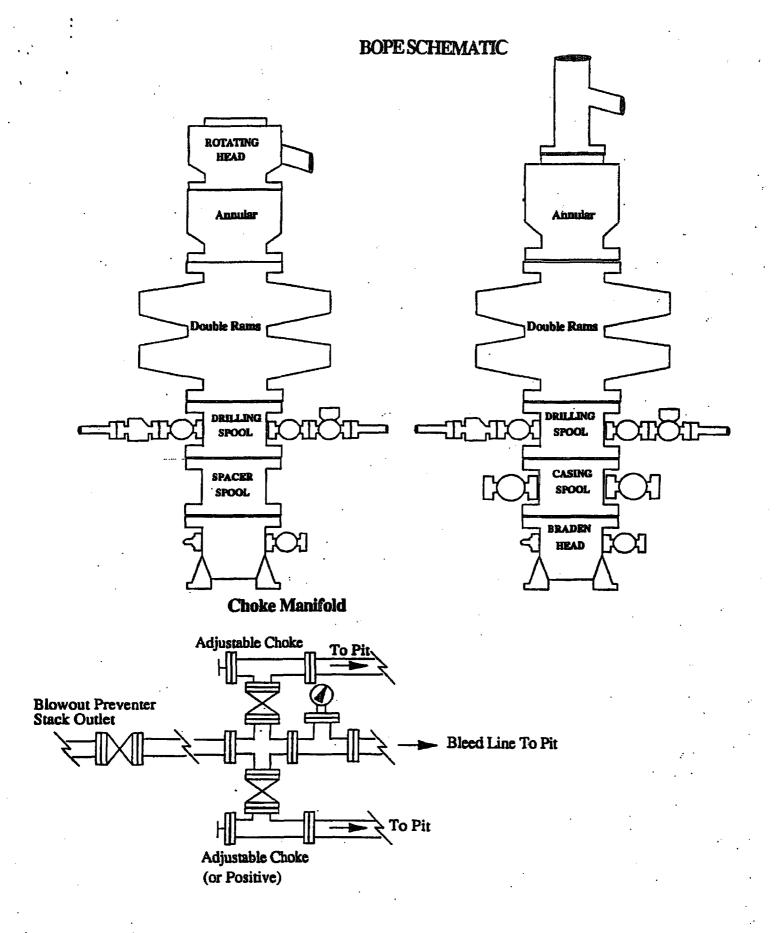
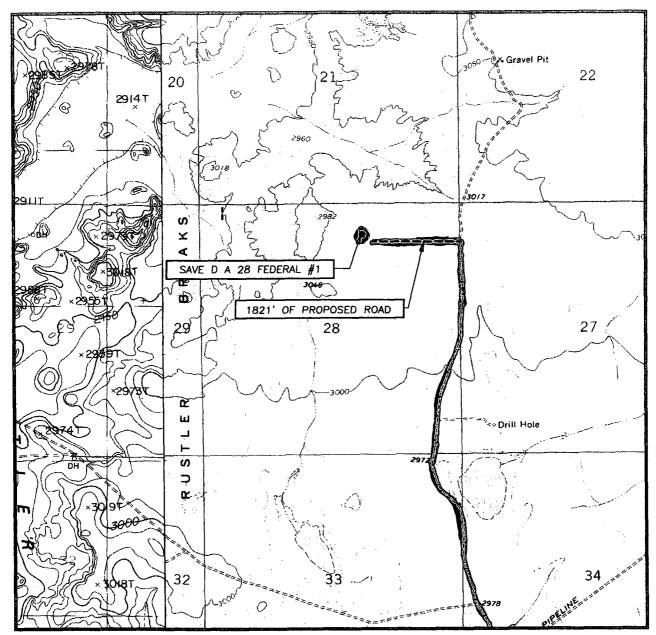


Exhibit One

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

SEC. 28 TWP. 25-S RGE. 29-E

SURVEY_____N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 660' FNL & 1980' FEL

ELEVATION 2951'

MARBOB ENERGY CORPORATION

LEASE SAVE D A 28 FEDERAL

U.S.G.S. TOPOGRAPHIC MAP ROSS RANCH, N.M. CONTOUR INTERVAL: ROSS RANCH, N.M. – 10' RED BLUFF, N.M. – 10'



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

EXISTING ROADS

EXHIBIT TWO

CONDITIONS OF APPROVAL - DRILLING

Operator's Name: Marbob Energy Corporation

Well Name & No: Save D A 28 No. 01

Location: Surface 660' FNL & 1980' FEL, Sec. 28, T. 25 S. R. 29 E.

Lease: NMNM 96848 Eddy County, New Mexico

.....

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) 361-2822 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
- B. Cementing casing: 13 % inch; 8 % inch; 5 ½ inch.
- C. BOP Tests
- 2. A Hydrogen Sulfide (H2S) Drilling Plan is not required for this well bore. However, the operator shall confirm that all rig personell has had some H2S safety awareness training.
- 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 13 % inch shall be set at 350 Feet with 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.
- 2. The minimum required fill of cement behind the 8 % inch Intermediate casing is to circulate to surface.
- 3. The <u>minimum required fill of cement</u> behind the 5 ½ inch Production casing is to <u>cover all potential hydro carbon</u> bearing formations by at least 200 feet.

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 13 ½ 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.

(III Cont):

- 2. <u>Minimum working pressure</u> of the blowout preventer and related equipment (BOPE) shall be <u>3 M</u> psi. A variance to use the rig pumps and test a 2 M surface BOPE to 1000 psig is approved. A minimum of a <u>3 M BOPE</u> shall be in operations according to Onshore Orders No. 02 prior to drilling below the 8 ½ inch casing shoe at approximately 2750 feet.
- 3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the test.
- -The test 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 safe workman-like manner. Hard line connections shall be required.
- -Both low pressure and high pressure testing of BOPE is required.

G. Gourley RFO 4/17/06