

CK

OCD-ARTESIA

ATS:07.336

NMNMLOURIUM MMLC C460,50B

FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007

6. If Indian, Allotee or Tribe Name

5. Lease Serial No.

1	C

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER					
la. Type of work:					
Single Zone Multi	ple Zone	8. Lease Name and V Williams B Fee	7		
45-1		9. API Well No.	15-3554		
3b. Phone No. (include area code) 432-685-1761		10. Field and Pool, or E	exploratory,		
		11. Sec., T. R. M. or Bl 29, T17S, R28H	k. and Survey or Area		
		12. County or Parish Eddy	13. State NM		
16. No. of acres in lease	17. Spacin	g Unit dedicated to this w	rell		
19. Proposed Depth 3500'					
22 Approximate date work will sta 05/01/2007	ut*	23 Estimated duration 10 days	1		
24. Attachments					
4. Bond to cover t Item 20 above). Lands, the 5. Operator certific 6. Such other site	he operation cation specific info	ns unless covered by an	·		
Name (Printed/Typed) Bonnie Atwater			Date 3-1-2007		
Name (Printed/Typed) /S/ Don P	eterso	n	Data PR 1 2 2007		
		OFFICE			
	Single Zone Multi Single Zone Multi Single Zone Multi Single Zone Multi Single Zone Multi Single Zone Multi Single Zone Multi Single Zone Multi As a code As a code	Single Zone Multiple Zone Single Zone Multiple Zone	Single Zone Multiple Zone Single Zone Multiple Zone 8. Lease Name and Williams B Fee 9. API Well No. 30. 10. Field and Pool, or E Artesia. 11. Sec., T. R. M. or Bl 11. Sec., T. R. M. or Bl 12. County or Parish Eddy 16. No. of acres in lease 17. Spacing Unit dedicated to this w 18. Lease Name and Williams B Fee 9. API Well No. 30. 10. Field and Pool, or E Artesia. 10. 11. Sec., T. R. M. or Bl 12. County or Parish Eddy 13. Eddy 14. Proposed Depth 25. BLMBIA Bond No. on file 16. No. of acres in lease 17. Spacing Unit dedicated to this w 18. Lease Name and Williams B Fee 9. API Well No. 30. 10. Field and Pool, or E Artesia. 10. 10. Field and Pool, or E Artesia. 10. 12. County or Parish Eddy 13. Estimated duration 14. Bond No. on file NM2307 24. Attachments 15. Operator certification 16. Such other site specific information and/or plans as authorized officer. Name (Printed/Typed) Bennie Atwater Name (Printed/Typed) Bennie Atwater		

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 page 2)

conduct operations thereon

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Conditions of approval, if any, are attached.

APPROVAL SUBJECT TO GENERAL 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.

APPROVAL FOR 1 YEAR

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

SDX Resources Inc. PO Box 5061 Midland, TX 79704 432/685-1761

February 28, 2007

The undersigned accepts all applicable terms, conditions, stipulations and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

Lease No.:

NMLC-046250(b)

Lease Name:

Williams B Federal #5

Legal Description of Land:

Unit G, 1980' FNL 2230' FEL

Sec. 29, T17S, R28E

Eddy Co., NM

Formation (s):

Artesia, GL-YE

Bond Coverage:

Statewide Bond - State of New Mexico

BLM Bond File No.:

NM2307

Authorized Signature:

John Pool

Vice-President

State of New Mexico

DISTRICT I 1826 N. FRENCH DR., HOBBS, NM 68240

Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 86210 OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

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

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

DISTRICT IV 1220 S. ST. FRANCIS DR., SANTA FE, NW 879	WELL LOCATION AND	ACREAGE DEDICATION PLAT	□ AMENDED REPORT
API Number	Pool Code 96830	Artesia, (- Gleriera:	· ueso
Property Code 27688		perty Name B FEDERAL	Well Number
OGRID No. 020451	Ope	rator Name OURCES, INC.	Elevation 3638'

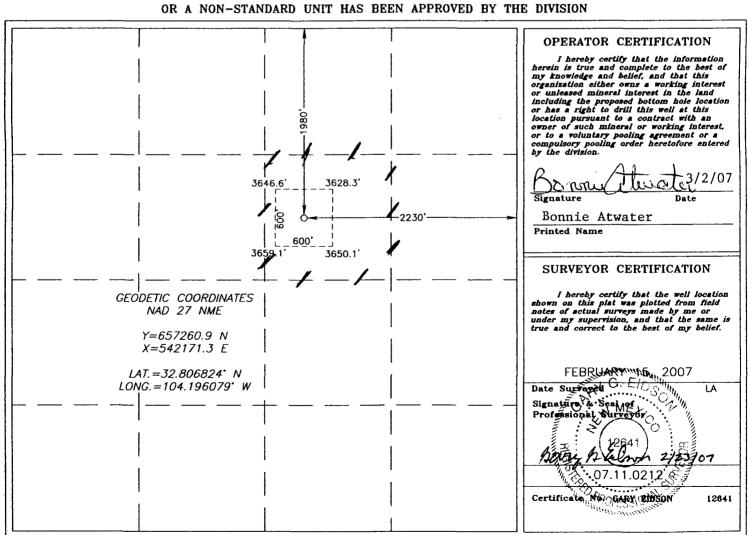
Surface Location

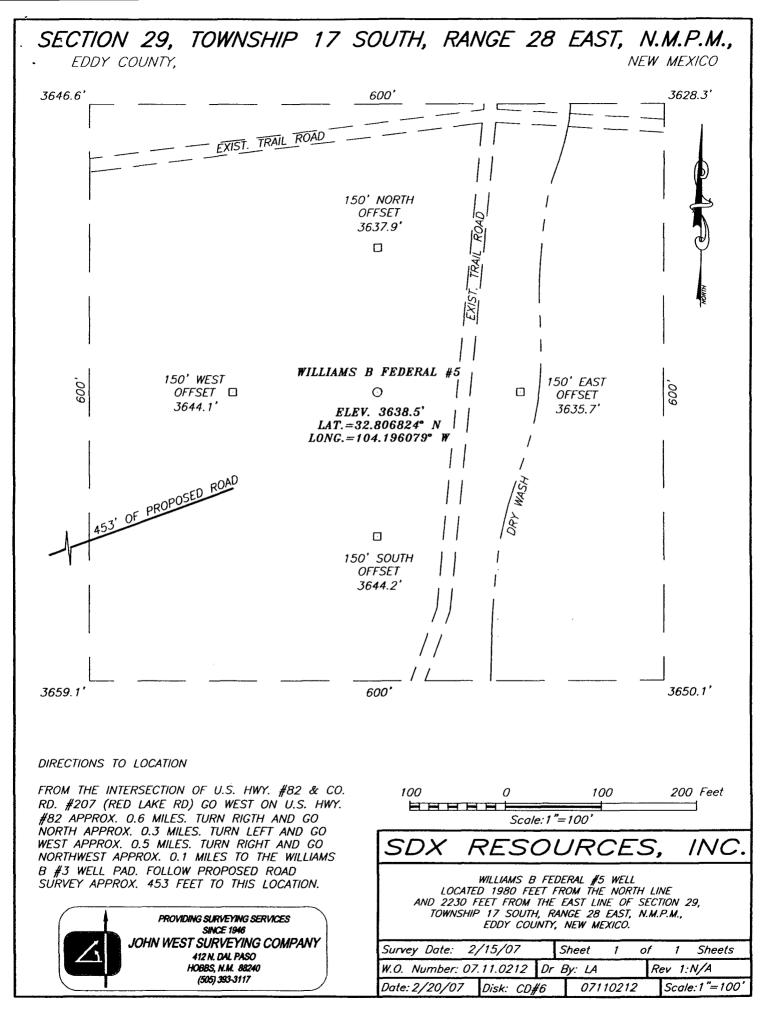
UL or	lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	G	29	17-S	28-E		1980	NORTH	2230	EAST	EDDY

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
Ì	ĺ									
ſ	Dedicated Acres	Joint o	r Infill Co	nsolidation	Code Or	der No.				
	40									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED





DRILLING PROGRAM SDX Resources Inc. Williams B Federal # 5 1980' FNL, 2230' FEL Unit G, Sec. 29, T17S, R28E

Eddy Co., NM

1. Geologic Name of Surface Formation:

Permian

2. Estimated Tops of Important Geologic Markers:

Yates	600
7- Rivers	900'
Queen	1200'
Grayburg	1600'
San Andres	1950'

3. Estimated Depth of Anticipated Fresh Water, Oil or Gas:

Water Sand	150' – 200'	Fresh Water
Yates	650	Oil & Gas
7-Rivers	950	Oil & Gas
Queen	1400'	Oil & Gas
Grayburg	1880'	Oil & Gas
San Andres	2800'	Oil & Gas

Fresh water sands will be protected by running 8-5/8" casing to a minimum depth of 450' and circulating cement. All other zones will be isolated by running 4-1/2" or 5-1/2" production casing and circulating cement.

4. <u>Casing Program:</u>

Hole Size	<u>Interval</u>	OC Csg	Weight Grade Jt Cond Type
12-1/4"	0 - 450	8-5/8" \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	24#, J55, Used
7-7/8"	0 - TD		9.5# - 17#, J55, Used

Cement Program:

8-5/8" Surface Casing:

Cemented to surface with 325 sx of Class C with 2% CaCl and ¼#/sx Flocele.

5-1/2" Production Casing:

Cemented with 300 sx of Class C and 400 sx of Lite C with 6# salt/sx and ¼#/sx Flocele. This should circulate cement to the surface.

5. <u>Minimum Specifications for Pressure Control:</u>

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of an annular bag type preventer (1000 psi WP). Unit will be hydraulically operated. BOP will be nippled up on the 8-5/8" surface csg and used continuously until TD is reached. BOP and accessory equipment will be tested to 1000 psi before drilling out of surface casing. A 2" kill line and a 2" choke line will be included in the drilling spool. Other accessories to the BOP equipment will include a kelly cock.



6. Types and Characteristics of the Proposed Mud System:

The well will be drilled to TD with a combination of fresh water and brine water mud system. The applicable depth and properties of this system are as follows:

<u>Depth</u>	<u>Type</u>	Weight (ppg)	Viscosity <u>(sec)</u>	Waterloss (cc)
0 - 450	Fresh Water (spud)	8.5	40 – 45	N/C
450 – TD	Brine water, SWG. Starch	10.0	30	24

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

7. Auxiliary Well Control and Monitoring Equipment:

- A. A kelly cock will be kept in the drill string at all times.
- B. A mud logging unit complete with H2S detector will be continuously monitoring drilling penetration rate and hydrocarbon shows from 1000' to TD.

8. Logging, Testing and Coring Program:

- A. Drillstem tests will be run on the basis of drilling shows.
- B. The electric logging program will consist of GR-Dual Laterolog and GR-Compensated Neutron-Density from TD to surface casing.
- C. Conventional coring may be performed in select intervals if deemed necessary.
- D. Further testing procedures will be determined after the production casing has been cemented at TD based on drill shows and log evaluation.

9. Abnormal Conditions, Pressures, Temperatures, & Potential Hazards:

No abnormal pressure or temperatures are anticipated. The estimated bottom hole temperature (BHT) at TD is 94° and estimated maximum bottom-hole pressure (BHP) is 800 psig. No abnormal concentrations of hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. All H2S operation precautions will be followed (see attached H2S drilling operations plans). No major loss circulation zones have been reported in offsetting wells.

10. Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is May 1, 2007. Once commenced, the drilling operation should be finished in approximately 10 days. If the well is productive, an additional 30 days will be required for completion and testing before a decision is made to install permanent facilities.

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HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

SDX Resources Inc.

Williams B Fed. #5 1980 FNL & 2230 FEL

Sec. 29, T17S, R28E, Unit E Eddy Co., NM

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:

- 1. The hazards and characteristics of hydrogen sulfide (H2S).
- 2. The proper use and maintenance of personal protective equipment and life support system.
- 3. The proper use of H2S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H2S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the H2S Drilling Operations Plan and the Public Protection Plan.

There will be an initial safety session just prior to commencing operations on the well. The initial session shall include a review of the site's 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 EQUIPEMNT AND SYSTEMS

Note: All H2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500'.

- 1. Well Control Equipment:
 - A. Annular Preventer to accommodate all pipe sizes with properly sized closing unit.
- 2. Protective Equipment for Essential Personnel:
 - A. Mark II Surviveair 30-minute units located in the dog house.

3. H2S Detection and Monitoring Equipment:

- A. 1 portable H2S monitor positioned on location for best coverage and response.
- B. Mud logging trailer shall have H2S monitoring equipment.

4. Visual Warning Systems:

- A. Guy lines will be flagged and a wind sock will be positioned on location.
- B. Caution/Danger signs shall be posted on roads providing direct access to location.

5. Mud Program:

The mud program has been designed to minimize the volume of H2S circulated to the surface. Proper mud weight, safe drilling practices, will minimize hazards when penetrating H2S bearing zones.

6. 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 as necessary.

7. Communication:

Radio communications in company vehicles including cellular telephone and 2-way radio.

8. Well Testing:

No DST's are planned.

SURFACE USE AND OPERATIONS PLAN SDX RESOURCES, INC.

Williams B Federal # 5

1980' FNL, 2230' FEL Unit G, Sec. 29, T17S, R28E Eddy Co., NM

1. Existing Roads:

- A. The well site and elevation plat for the proposed well is shown in Exhibit #2. It was staked by John West Surveying, Hobbs, New Mexico.
- B. All roads to the location are shown in Exhibit #3A. The existing rods are labeled and upgrading of the road prior to drilling will be done where necessary as determined during the onsite inspection.
- C. Directions to location: E. of Artesia on Hwy. 82 ~ 10 miles. Just before MP 119 turn left and go .4 M. Follow road to the right and go .2 M. Take left fork to Battery at the #3 location. Follow road East to location.
- D. Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease.

2. Proposed Access Road:

Exhibit #3A shows the existing road.

~850' of new road will be needed. It is shown on Exhibit #3 A & B.

3. <u>Location of Existing Wells:</u>

Exhibit #4 shows all existing wells within a one-mile radius of this well.

- 4. Location of Existing and/or Proposed Facilities and ROW's:
 - A. If the well is productive:
 - 1. The well will be tested and if commercial production exist, a 3" poly flowline will be laid to an existing battery at the Williams B Fed. #3 location. The proposed ROW is shown in exhibits 3A&B.
 - 2. A Power line will be built to location. It will be permitted and built by Central Valley Electric Company.
 - B. If the well is productive, rehabilitation plans are as follows:
 - 1. The reserve pit will be back-filled after the contents of the pit are dry (within 120 days after the well is complete).
 - 2. Topsoil removed from the drill site will be used to raconteur the pit area to the original natural level, as nearly as possible, and reseeded as per BLM specifications.

5. <u>Location and Type of Water Supply:</u>

The well will be drilled with a combination brine and fresh water mud systems as outlined in the drilling program. The brine and fresh water will be obtained from commercial water stations in the area and hauled to roads shown in Exhibit #3. No water well will be drilled on the location.

6. Source of Construction Materials:

All caliche required for construction of the drill pad and any new access road will be obtained from the drilling pits and/or on site when possible. Any additional caliche will be obtained from approved caliche pits. All roads and pads will be constructed of 6" rolled and compacted caliche.

7. Methods of Handling Water Disposal:

- A. Drill cuttings not retained for evaluation purposes will be disposed into the reserve pit.
- B. Drilling fluids will be contained in plastic lined pits. The reserve pit will contain any excess drilling fluid or flow from the well during drilling, cementing and completion operations. The reserve pit will be an earthen pit, approximately 100' x 100' x 8' deep, fenced, and plastic-lined (12 mil thickness).
- C. Water produced from the well during completion may be disposed into the reserve pit. After the well is permanently placed on production, produced water will be trucked to an approved disposal site.
- D. Garbage and trash produced during drilling or completion operations will be collected in a trash trailer by a contractor. All water and fluids will be disposed of into the reserve pit. Salts and other chemicals produced during drilling or testing will be disposed into the reserve pit. No toxic waste or hazardous chemicals will be produced by this operation.
- E. After the rig is moved out and the well is either completed or abandoned, all waste materials will be cleaned-up within 90 days. No adverse materials will be left on the location. The reserve pit will be completely fenced and kept closed until it has dried. When the reserve pit is dry enough to breakout and fill and as weather permits the unused portion of the well site will be leveled and reseeded as per BLM specifications. Only that part of the pad required for production facilities will be kept in use.

8. Ancillary Facilities:

None

9. Well Site Layout:

A. The drill pad layout is shown in Exhibit #5. Dimensions of the pad and pits and location of major rig components are shown. Top soil, if available, will be stockpiled per BLM specifications as determined at the on-site inspection. Because the pad is almost level no major cuts will be required.

- B. Exhibit #5 shows the planned orientation for the rig and associated drilling equipment, reserve pit, trash pit, pipe racks, turn-around, parking areas and access road. No permanent living facilities are planned but a temporary foreman/toolpusher's trailer will be on location during the drilling operations.
- C. The reserve pit will be lined with high-quality plastic sheeting (12 mil thickness).

10. Plan for Restoration of the Surface:

A. Upon completion of the proposed operation, if the well is to be abandoned, the pit area, after allowing to dry, will be broken out and leveled. The original top soil will be returned to the entire location which will be leveled and contoured to as nearly the original topography as possible.

All trash and garbage will be hauled away in order to leave the location in an anesthetically pleasing condition. All pits will be filled and the location leveled within 120 days after abandonment.

- B. The disturbed area will be revegetated by reseeding during the proper growing season with a seed mixture of native grasses as recommended by the BLM.
- C. The reserve pit will be fenced prior to and during drilling operations. The fencing will remain in place until the pit area is cleaned-up and leveled. No oil will be left on the surface of the fluid in the pit.
- D. Upon completion of the proposed operations, if the well is completed, the reserve pit area will be treated as outlined above within the same prescribed time. The caliche from any area of the original drill site not needed for production operations or facilities will be removed and used for construction of thicker pads. Any additional caliche required for facilities will be obtained from an approved caliche pit. Topsoil removed from the drill site will be used to raconteur the pit area and any unused portions of the drill pad to the original natural level and reseeded as per BLM specifications.

11. Surface Ownership:

BLM

Grazing Leased to Bogle, LTD

Surface leasee has been notified.

12. Other Information:

- A. The area around the well site is grassland. The vegetation is native scrub grasses with abundant catclaw and mesquite.
- B. There is no permanent or live water in the immediate area.

C. An archaeological survey has been requested and will be forwarded to the BLM when completed.

13. Lessee's and Operator's Representative:

The SDX Resources Inc. representative for assuring compliance with the surface use plan is as follows:

Chuck Morgan SDX Resources Inc. PO Box 5061 Midland, TX 79704 432/685-1761 Office 432/685-0533 Fax

Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by SDX Resources Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions which it is approved.

SDX Resources Inc.

John Pool Vice-President

CONDITIONS OF APPROVAL - DRILLING

Operator's Name:

SDX Resources, Inc

Well Name & No.

Williams B Federal # 5

Location:

1980'FNL, 2230'FEL, SEC29, T17S, R28E, Eddy County, NM

Lease: LC-046250B

I. DRILLING OPERATIONS REQUIREMENTS:

A. The Bureau of Land Management (BLM) is to be notified a minimum of 4 hours in advance, 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:

- 1. Spudding
- 2. Cementing casing: 8.625 inch 5.5 inch OR 4.5 inch
- 3. BOP tests
- B. A Hydrogen Sulfide (H2S) Drilling Plan should be activated prior to drilling out of the surface casing. A copy of the plan shall be posted at the drilling site.
- C. 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.
- D. 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.
- E. If floor controls are required, (3M or Greater) controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

II. CASING:

- A. The <u>8.625</u> inch surface casing shall be set at <u>APPROXIMATELY 450 feet</u> and cement circulated to the surface.
 - 1. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
 - 2. Wait on Cement (WOC) time for a primary cement job will be a minimum of 12 hours for a non-water basin, 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compression strength, which ever is greater. (This is to include the lead cement)
 - 3. WOC time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds of compression strength, which ever is greater.
 - 4. If cement falls back, Remedial cementing shall be completed prior to drilling out that string.
- B. The minimum required fill of cement behind the <u>5.5 or 4.5</u> inch production casing is <u>cement shall</u> circulate to the surface.
- D. If hard band drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

III. PRESSURE CONTROL:

- A. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2.
- B. Minimum working pressure of the blowout preventer and related equipment (BOPE) required for drilling below the <u>8.625</u> inch casing shall be <u>2000</u> psi.
- C. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
- 1. The tests shall be done by an independent service company.
- 2. The results of the test shall be reported to the appropriate BLM office.
- 3. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of the independent service company test will be submitted to the appropriate BLM office.
- 4. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi in accordance with API RP 53. The test will be held for a minimum of 10 minutes if the test is done with a test plug and 30 minutes without a test plug.
- 5. A variance to test the **BOP and BOPE** to the reduced pressure of **1000** psi with the rig pumps is approved the BOP/BOPE must be tested by an independent service company.

IV. Hazards:

- 1. Our geologist has indicated that there is High Cave / Karst potential and is in the vicinity of a known cave.
- 2. Our geologist has indicated that there is potential for lost circulation in the San Andres and Grayburg formations

Engineering may be contacted at 505-706-2779 for variances if necessary.

FWright 3/20/07