# UNITED STATES DEPARTMENT OF THE INTERIOROPO-ARTESIA BUREAU OF LAND MANAGEMENT

FORM APPROV	ÆΙ
OMB No. 1004-0	)13
Eynires March 31	20

Allottee or

5 Lease Seri

NM-26105

6. If Indian,

#### SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an shandoned well. Use form 2160-3 (ABD) for such proposals

aba		JUL <b>1 3</b> 2010			
	IPLICATE - Other instr	uctions on reverse side	•	7. If Unit o	NAMES COST Name and/or No. ARTESIA
1. Type of Well Oil Well	NM-112716 8 Well Name and No				
2. Name of Operator Cim	narex Energy Co. of Colora	do		Liberty 24 9. API W	Federal Com No. 1 ell No.
3a. Address 600 N. Marienfeld St., Ste. 600; N		3b. Phone No. (included)	de area code)	30-015-33	
4. Location of Well (Footage, Sec., T., 1 1650 FNL & 1200 FWL 24-25S-26E	-	10. Field and Pool, or Exploratory Area  Cottonwood Draw; Upper Penn & Morrow  11. County or Parish, State			
CHECK AP	PROPRIATE BOX(ES)	TO INDICATE NATU	IRE OF NOTICE	Eddy Coun	···
TYPE OF SUBMISSION	PE OF ACTION	idor Orer, e	AC THERE DITTE		
Notice of Intent Subsequent Report Final Abandonment Notice	Acidize Alter Casing Casing Repair Change Plans Convert to Injection	Deepen Fracture Treat New Construction Plug and Abandon Plug Back	Production (Star Reclamation Recomplete Temporarily Abar Water Disposal	ŕ	Water Shut-off Well Integrity Other Deepen to Devonian (prep for SWD conversion)
13. Describe Proposed or Completed Ope If the proposal is to deepen directions Attach the bond under which the wor following completion of the involved testing has been completed Final Ab determined that the site is ready for fi Well is currently TA with plugs conversion as shown below:  Use kickoff plug at 5810' to exit Drill 8¾" hole to 13000.' Set 7"	ally or recomplete horizontally, g k will be performed or provide the operations. If the operation rest bandonment Notices shall be filed in all inspection.)  in place. Uppermost pluse SEE wellbore.	ive subsurface locations and me Bond No. on file with BLM/ults in a multiple completion or d only after all requirements, in g @ 5810-5902. Cimark ATTACHED FUDITIONS OF A	easured and true vertical /BIA. Required subseque recompletion in a new including reclamation, have plans to deeper OR APPROVAL	depths of all per ent reports shall nterval, a Form 3 to been complete n to the Dev	rtinent markers and zones. be filed within 30 days B160-4 shall be filed once ad, and the operator has

• Cement in 3 stages with 2 DV tools to ensure proper circulation to surface: 1) V Tools at 5, 700 + 11000

Stage 1 640 sx PVL + 1.3% D-44 BWOW + 0.2% D-167 + 0.2% D-65 + 0.2% D-46 + 0.2% D-800 + 0.06 gps D-177 (wt 13, yld 1.41)

Stage 2 Lead: 150 sx 35/65 POZ H + 5% D-44 BWOW + 10% D-20 + 1.5% D-112 + 0.125# D-130 + 3# D-42 + 0.2% D-46 + 0.1% D-800 (wt 12.4, yld 2.28) and Tail: 300 sx PVL + 1% D-44 bwow + 0.1% D-65 + 0.3% D-167 + 0.2% D-46 + 0.3% D-800 + 0.03 gps D-177 (wt 13,

Stage 3 300 sx 35/65 POZ C + 5% D-44 bwow + 6% D-20 + 0.2% D-46 + 0.2% D-800 + 3# D-42 + 0.125# D-130 (wt 12.4, yld 2.19)

• Drill through cement to 13900. A plug/packer will be set in the 7" and the rig will be rigged down. Upon approval of poly line ROW and construction of SWD line completion will consist of pulling the plug/packer, acidizing, and running tbg/pkr.

Please see attached plat,rig diagram, WBD, and BOP schematic and testing information. 14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Title Natalie Krueger Regulatory Date 07.02.10 THIS SPACE FOR FEDERAL OR STATE OFFICE USE 9 2010 Title Conditions of Approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease Office Is/ Chris Walls BUREAU OF LAND MAN which would entitle the applicant to conduct operations thereon. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. 1212, make it a crime for any person knowingly and willfully to make to any department States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

# BOP Testing Info - <u>Liberty 24 Federal Com No. 1</u> SWD Conversion

Cimarex Energy Co. of Colorado 24-25S-26E 1650 FNL & 1200 FWL Eddy County, NM

See COA

A 11" 10000 PSI working pressure BOP consisting of one set of blind rams and two sets of pipe rams and a 5000# annular type preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Rotating head as needed. A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

BOP unit will be hydraulically operated. BOP will be nippled up and operated at least once a day while drilling and the blind rams will be operated when out of hole during trips. No abnormal pressure or temperature is expected while drilling. From the base of the existing 9%" intermediate pipe through the running of production casing, the well will be equipped with a 10000 psi BOP system.

BOPS will be tested by an independent service company to 250 psi low and 10000 psi high. Hydril will be tested to 250 psi low and 3500 psi high.

5,000

#### State of New Mexico

DISTRICT I P.O. Box 1980, Hobbs, TK 68541-1990

Rucrys, Minerals and Returni Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office

#### DISTRICT II P.O. Drawer DD, Artenia, HM 85311-0719

#### OIL CONSERVATION DIVISION P.O. Box 2088

State Lease - 4 Copies Fac Lease - 3 Copies

DISTRICT III 1000 Ráo Brezos Rd., Artec, NM 87410 Santa Fe, New Mexico 87504-2088

DISTRICT IV P.O. HOE 2088, SANTA FE, N.M. 67504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

	API Number	Pool Code	Pool Name
1	30-015-33094	Devoi	nian Wildcat
	Property Code	Property Name LIBERTY 24 FEDERAL COM	Well Number
	ogno no. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3272

#### Surface Location

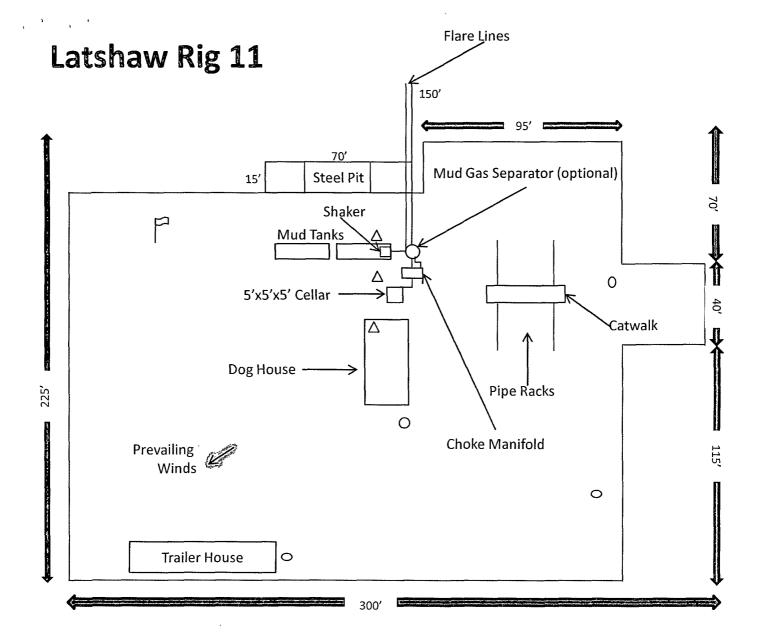
UL or lot No.	Section	Township	Range	lot Idn	Feet from the	North/South line	Feet from the	Rast/West line	County
E	24	25 <b>-</b> S	<b>26-</b> E		1650'	NORTH	1200'	WEST	EDDY

#### 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 o	r Infill Co			der No. D-1216				

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

OPERATOR CERTIFICATION  I hereby certify the the information contained herein is true and complete to the best of my knowledge and bottof.  Signature  Zeno Farris  Printed Name  NAD 27 NME  OPERATOR CERTIFICATION  I hereby certify the the information contained herein is true and complete to the best of my knowledge and bottof.  Signature  Zeno Farris  Printed Name  Manager Operations, Admin	cons	I hereby certify the the information ained havein is true and complete is the
X=525639.3 E LAT.= 32°07'04.91"N LONG.= 104'15'01.86'W  SURVEYOR CERTIFICATION  I hereby cartify that the well location shown on this plat was platted from field roles of actual surveys made by me or suction my supervison and that the arms is true and correct to the best of my belief.  August 07, 2003  Data Surveysdamment AWB Signature, & Seel by Professional Sittension  AWB Signature, & Seel by Professional Sittension  AWB	3282.9 3276.8 32	Zeno Farris  Inted Name nager Operations, Admin le  te  SURVEYOR CERTIFICATION  oraby cartify that the well location shown this plat was platted from field notes of well services made by me or under my versions and that the same is true and rest to the best of my belief.  August 07, 2003  ts Surveyed



- Wind Direction Indicators (wind sock or streamers)
- $\Delta$  H2S Monitors (alarms at bell nipple and shale shaker)
- O Briefing Areas
- O Remote BOP Closing Unit

Exhibit D – Rig Diagram

Crescent Hale 11 Federal No. 1

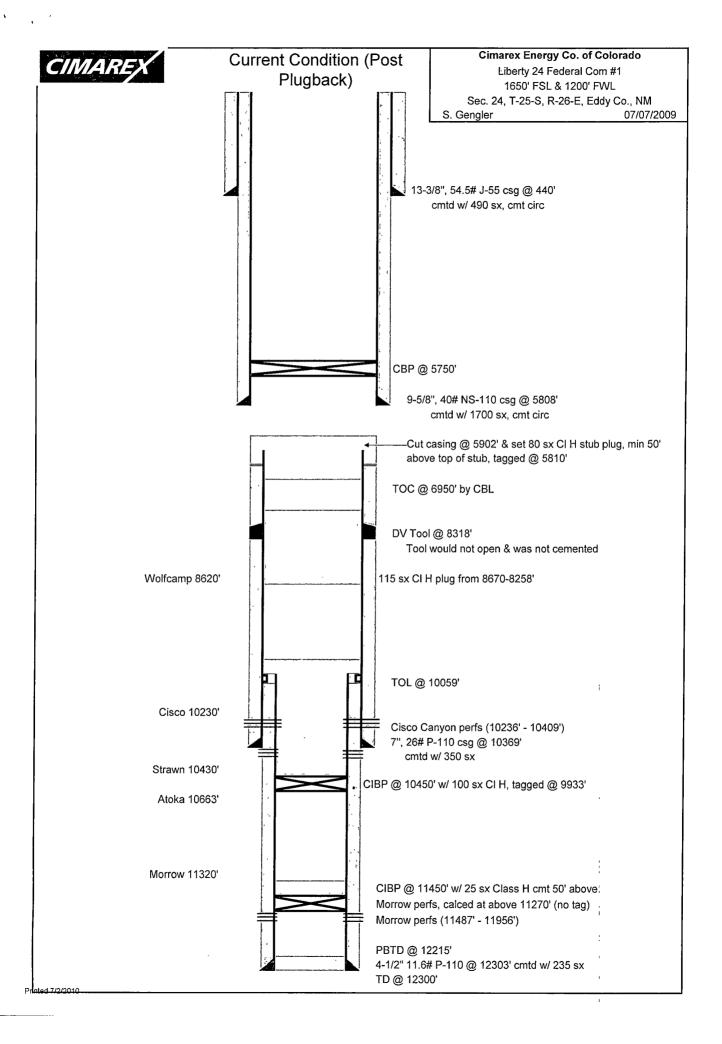
Cimarex Energy Co. of Colorado

SHL 345 FNL & 375 FEL

BHL 330 FSL & 660 FEL

11-19S-30E

Eddy County, NM





# **DRILLING PROGNOSIS Cimarex Energy Company**

5/26/2010

Well:

Liberty 24 Fed Com #1 SWD

Location: County, State

Sec 24, T25S, R26E **Eddy County, NM** Surface Location: 1650 FSL, 1200 FWL

**Bottomhole Loc:** 

E-Mail: Wellhead: Lse Serial #

White City Field: Objective: Devonion TVD/MD: 13900' Cementing: SLB

MI Mud: Great white Motors:

**OH Logs** N/A

Rig:

Offset Well:

**Xmas Tree** 

Tubing: Superintendent: Engineer:

Jim Evans Ryan Braxton

Bit **Hole Size Formation Tops** Other Logs IADC Cement Mud Weight Cemented to surface 17-1/2 13-5/8", 54.5#, J55 440' (existing) Cemented to surface 12-1/4" 9-5/8", 40#, NS-110 @ 5808' (existing) + 0 06 gps D-177 (wt 13, yld 1.41)

Stage 2: Lead 150 sx 35/65 POZ H + 5% D-44 BWOW + 10% D-20 + 1 5% D-112 + 0.125# D-130 + 3# D-42 + 0.2% D-46 + 0 1% D-800 (wt 12 4, yld 2.28) and Tail 300 sx PVL + 1% D-44 bwow + 0.1% D-65 + 0 3% D-167 + 0.2% D-46 + 0.3% D-800 + 0 03 gps D-177 (wt 13, yld 1.4)

Stage 3: 300 sx 35/65 POZ C + 5% D-44 bwow + 6% D-20 + 0.2% D-46 + 0 2% D-800 + 3# D-42 + 0.125# D-130 (wt 12 4, yld 2.19) Stage 1: 640 sx PVL + 1.3% D-44 BWOW + 0 2% D-167 + 0.2% D-65 + 0.2% D-46 + 0.2% D-800 32/35# L80 BTC @ 13000' 13900

Use kick off plug at 5810' to exit wellbore. Once far enough from old wellbore will drill down to ~13,000'. We will run 7" L80 csg (600' 35#, 12400' 32#). We will then cement in 3 stages (2 DV tools) to ensure we get cement to surface. We will then drill down to ~13,900'. A plug/packer will be set in the 7" and the rig will be rigged down.

Completion will consist of pulling the plug/packer, acidizing, and running tbg/pkr.

### State of New Mexico

DISTRICT I P.O. Box 1600, Hobbs, RK 65541-1980

1 1 1

Energy, Minerals and Netural Resources Department

Form C-102 Revised February 10, 1984 Submit to Appropriate District Office State Lease - 4 Copies Foe Lease - 3 Copies

DISTRICT IV

DISTRICT II P.O. Drawer 300, Artendo, NM 88211-0719

DISTRICT III 1000 Eto Brazos Ed., Axtec, NM 67410

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

P.O.	BOX 2056, SANTA FE, N.M. 67504~2066	WELL LOCATION AND	ACREAGE DEDICATION P	LAT AMENDED REPORT
<u> </u>	API Number	Pool Code	Pe	col Name
	30-015-33094		Devon	ian Wildcat
	Property Code	Pr	operty Name	Well Number
		LIBERTY 2	FEDERAL COM	1
	OGRID No.	Oz	erator Name	Elevation
1	162683	3272'		

#### Surface Location

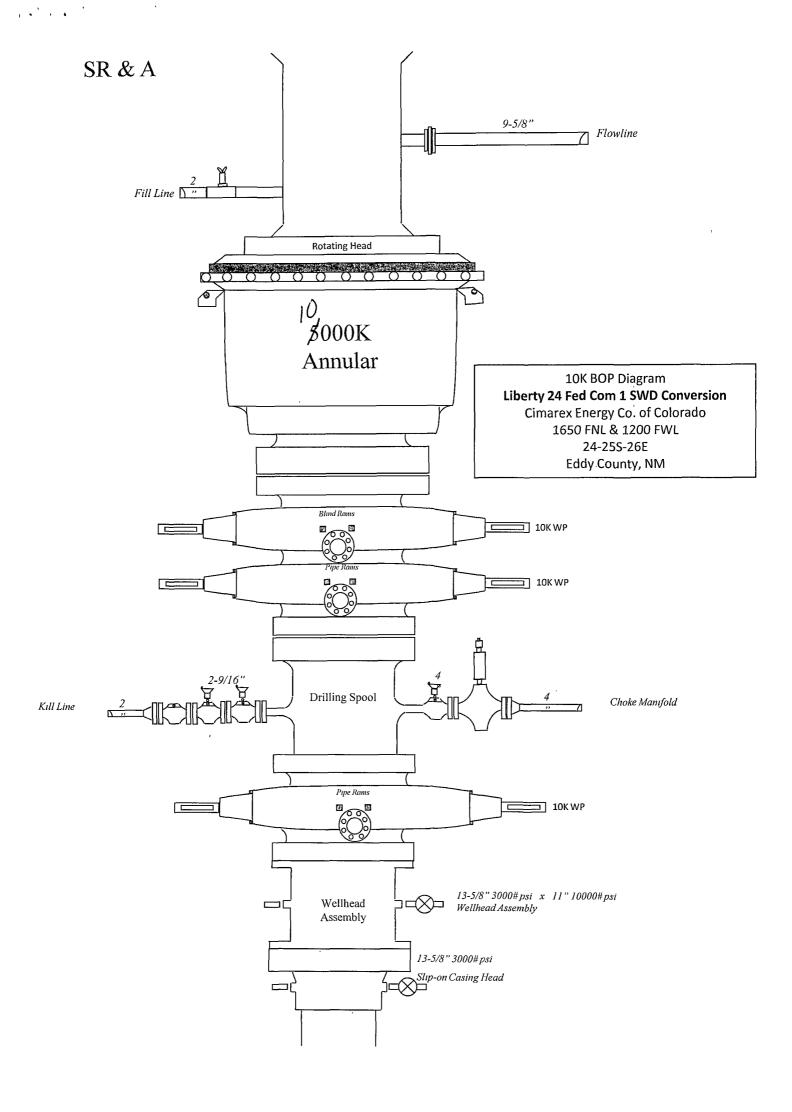
-	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South Hac	Feet from the	Rast/West line	County
ĺ	Ε	24	25-S	26-E		1650'	NORTH	1200′	WEST	EDDY

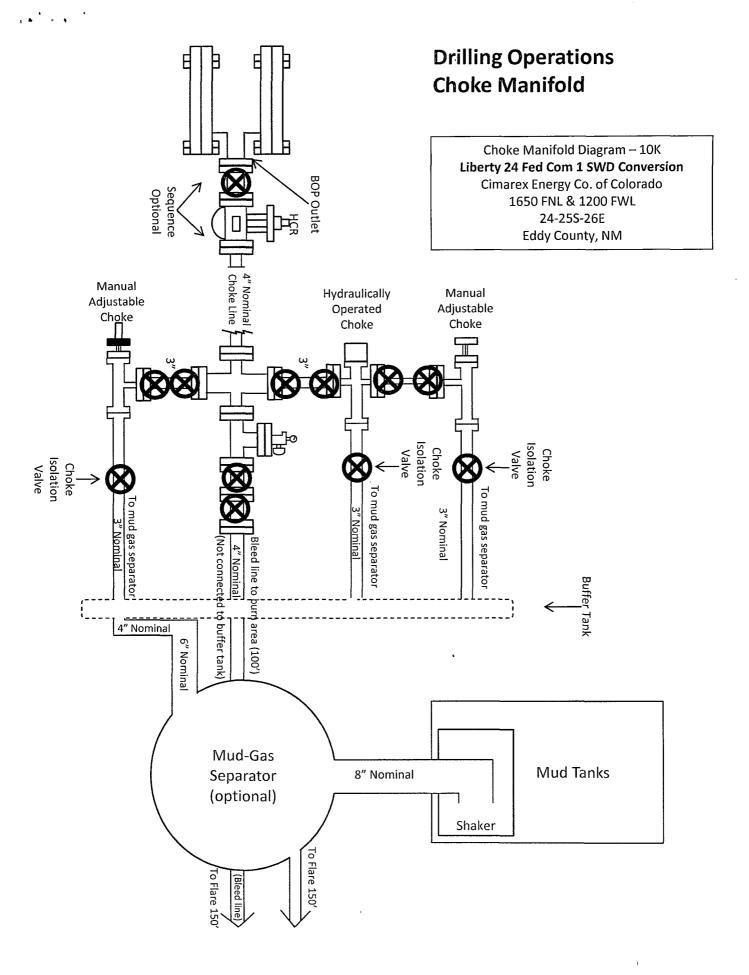
#### Bottom Hole Location If Different From Surface

UL or lot No.	Section	Townshi	p Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill	Consolidation	1	D-1216	<u> </u>			

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

	STANDARD UNIT HAS BEEN APPROV	DD D1 1HE D11M2ON
1650'		OPERATOR CERTIFICATION  I hereby certify the the information contained herein is true and complete is the best of my knowledge and belief.
3282.9'	GEODETIC COORDINATES  NAD 27 NME  Y= 406672.2 N  X=:525639.3 E  LAT= 3207'04.91"N  LONG,= 104'15'01.86"W	Zeno Farris  Printed Name Manager Operations, Admin
		SURVEYOR CERTIFICATION  I hereby certify that the well location shown on this plat was plotted from field notes of actual serveys made by me or under my supervisors and that the same is true and correct to the best of my belief.
		August 07, 2003  Data Surveyed August 87  Signature & Seel 67  Professional Surveyors  August 07, 2003  Awg  Awg  Awg  Awg  Awg  Awg  Awg  Aw
		Cordificate No. RONALD FEDSON 3288 GARY EDSON 12841





### CONDITIONS OF APPROVAL

OPERATOR'S NAME: | Cimarex Energy Co. of Colorado

**LEASE NO.: | NMNM-26105** 

WELL NAME & NO.: Liberty 24 Federal Com 1 SURFACE HOLE FOOTAGE: 1650' FNL & 1200' FWL

LOCATION: Section 24, T. 25 S., R 26 E., NMPM

**COUNTY:** Eddy County, New Mexico

#### I. DRILLING

#### A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

## **⊠** Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Hydrogen Sulfide has been reported as a hazard but the formation is unknown. It is recommended that monitoring equipment be onsite for potential Hydrogen Sulfide. If Hydrogen Sulfide is encountered, please report measurements and formations to the BLM.
- 2. 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. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These 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.

#### B. CASING

- 1. The minimum required fill of cement behind the 7 inch production easing is:
  - a. First stage to DV tool, cement shall:
  - Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
  - b. Second stage above DV tool, cement shall:
  - Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.

    Additional cement may be required as the excess cement calculates to be negative 4%
  - c. Third stage above DV tool, cement shall:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office. Additional cement may be required as the excess cement calculates to be negative 27%
- 2. If hardband 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.

#### C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10000 (10M) psi. 10M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

- a. The tests shall be done by an independent service company utilizing a test plug.
- b. The results of the test shall be reported to the appropriate BLM office.
- c. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.
- e. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

#### D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

#### **CRW 070810**

Operator is to submit subsequent report of operations and a completion report. Also when well begins injection a subsequent sundry with the date injection began.