Form 3160-3 (August 1999)

# LIMITED STATES

FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000

DEPARTMENT OF			Daples Nov	AIRECT 50, 2000
BUREAU OF LAND	5. Lease Serial No. SF-079353			
APPLICATION FOR PERMIT	6. If Indian, Allottee or Tribe Name			
1a. Type of Work: DRILL REENTER	7. If Unit or CA Agreement, Name and No.			
1b. Type of Well: □ Oil Well	Lease Name and Well No.     SAN JUAN 32-8 UNIT 257A			
2. Name of Operator Contact: CONOCOPHILLIPS COMPANY	VICKI WESTBY E-Mail: Vicki.R.Westby@	gle Zone Multiple Zone	9. API Well No. 30-64	5-32370
3a. Address 4001 PENBROOK, SUITE 346 ODESSA, TX 79762	3b. Phone No. (include area code) Ph: 915.368.1352		10. Field and Pool, or Exploratory BASIN FRUITLAND COAL	
4. Location of Well (Report location clearly and in accord	ance with any State requ	uirements.*)	11. Sec., T., R., M., or Bl	k. and Survey or Area
At surface NESE 1840FSL 660FEL At proposed prod. zone			T Sec 19 T32N R8W	Mer NMP
14. Distance in miles and direction from nearest town or post	office*		12. County or Parish SAN JUAN	13. State NM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	ease	17. Spacing Unit dedicated to this well  320 EA		
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 3796 MD		20. BLM/BIA Bond No. o	on file
21. Elevations (Show whether DF, KB, RT, GL, etc. 6808 GL	22. Approximate date	e work will start	23. Estimated duration	
	24. Att	achments		<del></del>
The following, completed in accordance with the requirements of	f Onshore Oil and Gas (	Order No. 1, shall be attached to	this 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 Syst SUPO shall be filed with the appropriate Forest Service Of</li> </ol>	em Lands, the lice).	4. Bond to cover the operation ltem 20 above). 5. Operator certification 6. Such other site specific in authorized officer.		_
25. Signature (Electronic Submission)	Name (Printed/Typed) VICKI WESTB			Date 05/19/2004
Title AGENT				
Approved by (Signature) Manliely	Name (Printed/Typed)			Date 6-18-09
Title AFM	Office FFO			/
Application approval does not warrant or certify the applicant hoperations thereon.  Conditions of approval, if any, are attached.	lds legal or equitable tit	le to those rights in the subject l	ease which would entitle the	applicant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, States any false, fictitious or fraudulent statements or representat	make it a crime for any j ions as to any matter wi	person knowingly and willfully t thin its jurisdiction.	o make to any department or	agency of the United
Additional Operator Remarks (see next page)	well in PA -	no Notification	unda R-8768	ş-/ <del>-</del>
, / Electronic Submiss	sion #30929 verifie	d by the BLM Well Inform	nation System	
V FOR CONOC	JOPHILLIPS COMI	PANY, sent to the Farmi	ngton	

This action is subject to technical and pronedural review pursuant to 43 CFR 3165.3 and appear pursuant to 43 CFR 3185.4

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer DD, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd. Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

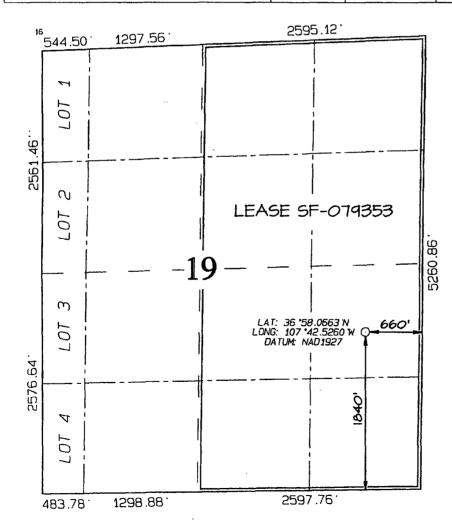
Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

\_\_\_ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

2 API Number		Pool Code	Pool Name		
50-045-32	370	71629	BASIN FRUITLAND CO	AL	
Property Code		*Pr	operty Name	*Well Number	
31330		SAN JUAN 32-8 UNIT			
'OGRID No.		*Elevation			
217817		6808			
		10 Sun fa	ace Location		

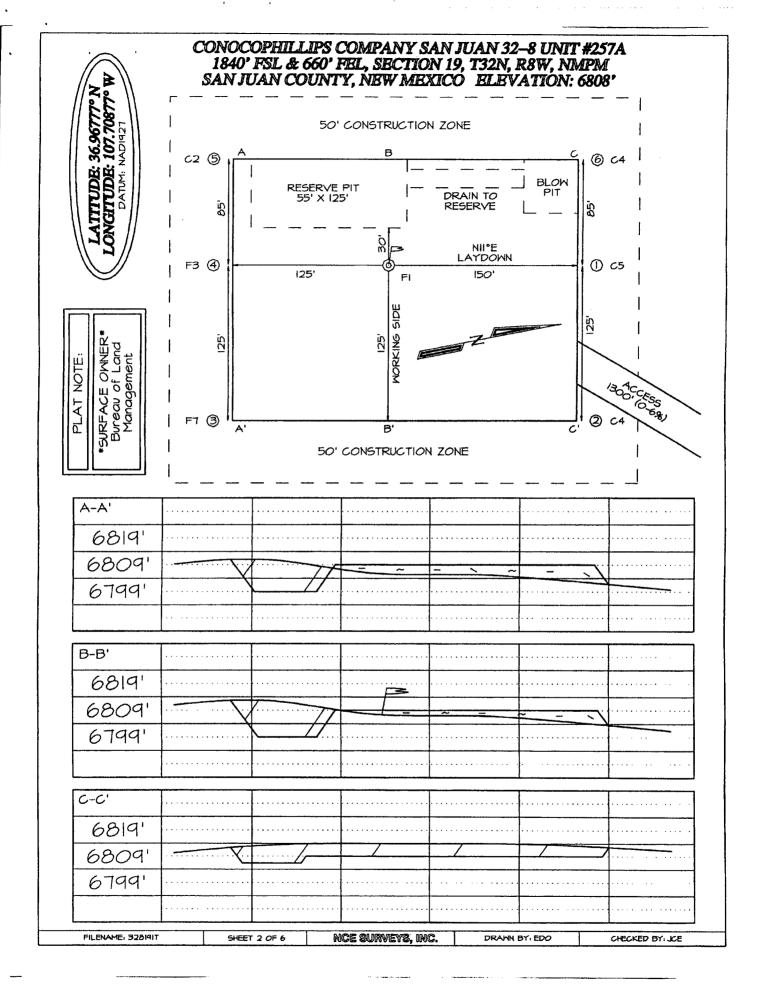
UL or lat no. Section North/South line East/West line Feet from the Ι 19 32N 8W 1840 **SOUTH** 660 EAST SAN JUAN 11 Bottom Hole Location If Different From Surface UL or lot no. Lot Ion Feet from the Feet from the County East/West line 12 Dedicated Acres 13 Joint or Infill <sup>14</sup> Consolidation Code <sup>15</sup> Order Na. 320.0 Acres - E/2



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

WILLIOAED DI LUE DIAIDIA
17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true add complete
to the best of my knowledge and belief
Wicke Westly
Signature
Vicki R. Westby
Printed Name
Sr. Analyst
Title)
May 19, 2004
Date
18 SURVEYOR CERTIFICATION
I hereby centify 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.
Date of Survey: MARCH 22, 2004
Signature and Seal of Professional Surveyor
S. E. EDI
SECH C. EDWARD
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(計 (15269) ) 度
18 8
THE STORY OF THE S
1
JASON C. EDWARDS
Contificate Number 45350

Submit 3 Copies To Appropriate Dist	rict	State of	New M	exico		Form C-103
District I		gy, Minerals	and Nati	ural Resources	WELL ADING	March 4, 2004
1625 N. French Dr., Hobbs, NM 8824 District II					WELL API NO	) <b>.</b>
1301 W. Grand Ave., Artesia, NM 88	<sub>210</sub> OIL			DIVISION	5. Indicate Typ	e of Lease
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 874	10	1220 South			STATE	FEE
District IV		Santa Fe	e, NM 8	7505	6. State Oil &	Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505						
	OTICES AND	REPORTS ON	V WELLS	3	7. Lease Name	or Unit Agreement Name
(DO NOT USE THIS FORM FOR PE						
DIFFERENT RESERVOIR. USE "A PROPOSALS.)	PPLICATION FOR	PERMIT" (FOR	M C-101) F	OR SUCH	San Juan 32-8	
1. Type of Well:					8. Well Number	r
Oil Well Gas Well	X Other				257A	
2. Name of Operator					9. OGRID Nun	nber
ConocoPhillips Company					217817	
3. Address of Operator	77.4				10. Pool name	
4001 Penbrook, Odessa, TX 79	9/62				Basin Fruitland	Coal
4. Well Location						
Unit LetterI	: 1840 f	eet from the S	South	line and 660	feet from th	e East line
Section 19	Acceptances	Township	32N		NMPM	San Juan County
			ether DR	, RKB, RT, GR, etc.)		
Pit or Below-grade Tank Application	(For pit or below		res a form	C.144 must be attached	\	
Pit Location: UL I Sect 19 Tw						arest tresh water well >1000
Distance from nearest surface water				SectIwp_	Kng ;	
feet from theline a	ndleet fro	om the	_line			
NOTICE OF PERFORM REMEDIAL WORK	INTENTION PLUG AN	N TO: D ABANDON		REMEDIAL WORK	EQUENT RI	EPORT OF: ALTERING CASING ☐
TEMPORARILY ABANDON	☐ CHANGE	PLANS		COMMENCE DRIL		PLUG AND [_] ABANDONMENT
PULL OR ALTER CASING	COMPLET			CASING TEST AN CEMENT JOB	D [	
OTHER:				OTHER:		
13. Describe proposed or c	ompleted operati	ons. (Clearly	state all p	pertinent details, and	give pertinent da	tes, including estimated date
						ram of proposed completion
or 1000mp.0110-11						
ConocoPhillips Company's Gen						
pit in reference to the proposed						
solids left after the water has been	en disposed of w	ill be sampled	and NM	OCD approval will b	e obtained prior	o closure of this pit.
I hereby certify that the information	ion above is true	and complete	to the be	est of my knowledge	and belief. I furt	her certify that any pit or below-
grade tank has been/will be constructed	d or closed accordi	ng to NMOCD g	uidelines [	], a general permit 🔲 o	r an (attached) alter	native OCD-approved plan 🔲.
SIGNATURE Decke	11/200	<i>Н</i>	TITLE	O 4 1 .		
	Con	<del>202/</del>		Sr. Analyst		DATE_ <u>5/13/04</u>
Type or print name Vicki Wes	tby E-ma			Sr. Analyst estby@conocophillip	s.com Tel	DATE <u>5/13/04</u> ephone No. 432-368-1352
	tby E-ma				s.com Tel	
	tby E-ma				s.com Tel	
(This space for State use)	tby E-ma	ail address: Vi	icki.R.We		s.com Tel	ephone No. 432-368-1352
	tby E-ma	ail address: Vi			s.com Tel	



## **CONOCOPHILLIPS COMPANY**

WEL	L NAME:	San J	uan 32-8 #257	<u>'A</u>	
DRIL	LING PROGNOSIS	5			
1.	Location of Propose	ed Well:	1840' FSL & Section 19,		
2.	Unprepared Ground	Elevatio	n:	@ 6808' .	
3.	The geological nam	e of the s	urface formati	on is <u>San Jose</u> .	
4.	Type of drilling too	ls will be	rotary.		
5.	Proposed drilling de	epth is	3796'.		
6.	The estimated tops ( Note: RKB is 13' at San Jose - Naciamento - Ojo Alamo - Kirtland Shale - Fruitland - Intermediate Csg -	13' 831' 2366' 2426' 3258'	*	t geologic markers are as fol  Base of Lowest Coal -  Picture Cliffs -  Total Depth -	3706' 3711' 3796'
7.	The estimated depressions are expe		-	ed water, oil, gas or other are as follows:	r mineral bearing
	Water:	Ojo Al	amo -	2366' – 2426'	
	Oil:		none		
	Gas:		nd Coal -	3258' - 3796'	
	Gas & Water:	<u>Fruitla</u>	nd Coal -	3258' - 3796'	
8.	The proposed casing				<b></b>
	<u> </u>			C@ 200' below ground lev	el*
	Intermediate String:			'&C @ 3426' – 3796' MD	RKR
	Trod Emor Option.	<u> </u>	2.211, 0 22, 121	00 (0, 5 120 5 7 7 0 NID	Idd
	* The surface casing set deeper if required			mum of 200' below ground l lity.	evel, but could be
9.	Cement Program:				
	Surface String:	(S001)		ent with 1.16 cuft/sx yield, llophane Flake (D029) = 17 face.	

9. Cement program: (continued from Page 1)

#### **Intermediate String:**

Lead Cement: 452 sx Class G w/3% D079 (chemical extender) 0.25#/sx D029

(Cellophane flakes), 0.05 GPS D047 (antifoam agent) 0.2% D046 (antifoam agent) mixed at 11.7 ppg and yield of 2.61 cuft/sx = 1179.7

cf.. Lead slurry Cement will circulate to surface.

Tail: 100 sx - 50/50/G/POZ cement w/2% D020 (bentonite extender), 2% S001

(CaCl2), 5#/sxD024 (gilsonite), ½#/sx D029( cellophane flakes) & 2% D046 (antifoam agent) @ a weight of 13.5 ppg and yield of 1.27 cuft/sx =

127.0 cf.

Note: ConocoPhillips Company continually works to improve the cement slurries on our wells. Our Cementing Service Companies are currently trying to improve what we are using now and before we would use a new cement program it would have to have stronger properties than we are currently using.

Centralizer Program:

Surface: Total four (4) - 10' above shoe and top of 2<sup>nd</sup>, 3<sup>rd</sup>, & 4<sup>th</sup> its.

Intermediate: Total seven (7) - 10' above shoe and top of 1st, 2nd, 4th, 6th, 8th, &

1<sup>st</sup> it. into shoe.

Turbulators: Total three (3) - one at 1<sup>st</sup> jt below Ojo Alamo and next 2 jts up.

- 10. Cavitation Option: Depending on well conditions the well may be cavitated or may be completed without cavitation.
- 11. Production liner option: Depending on well conditions a 5-1/2" liner may be run or the well may be completed without a liner. If a liner is run, it would be run without a liner hanger or possibly with a liner hanger and would be left uncemented.
- 12. Perforations: If a liner is run, it will be perforated using electric line perforating guns in the Fruitland Coal interval(s).
- 13. Tubing will be run in either flowing well configuration or in pumping well configuration. The size of tubing run and the configuration (either pumping or flowing configuration) will be dependent on the well conditions and flow test results. Our proposed options for the tubing string are as follows:

#### **Pumping Well Configuration:**

- o Mud Anchor consisting of one joint 2-7/8" tubing, orange peeled, with slots in the upper 2' of the joint below the upset.
- o 2-7/8" x 2-3/8" x-over
- o 2-3/8" OD x 1.78" ID F-Nipple
- o 2-3/8", 4.7#, J-55, EUE 8RD tubing to surface
- o Insert pump run on rods and set in F-Nipple

#### 2-3/8" Flowing Well Configuration:

- o 2-3/8" OD x 1.78" ID F-Nipple
- o 2-3/8", 4.7#, J-55, EUE 8RD tubing to surface

#### 2-7/8" Flowing Well Configuration:

- o 2-7/8" OD x 2.5" ID F-Nipple
- o 2-7/8", 6.5#, J-55, EUE 8RD tubing to surface

#### 3-1/2" Flowing Well Configuration:

- o 3-1/2" OD x 1.78" ID F-Nipple
- o 3-1/2", 9.2# J-55 FL4S (as an option inside the liner or in the open hole)
- o 3-1/2" 9.3# J-55 EUE 8rd tubing to surface
- 14. The minimum specifications for pressure control equipment which are to be used, a schematic diagram thereof showing sizes, pressure ratings (or) API series and the testing procedure and testing frequency are enclosed within the APD packet.
- 15. Drilling Mud Prognosis:
  - o Surface spud mud on surface casing.
  - o Intermediate fresh water w/polymer sweeps. Bentonite as required for viscosity.
  - o Below Intermediate air / water mist drilling media with foamer and polymer as needed for hole stability and with corrosion inhibitor.
- 16. The testing, logging, and coring programs are as follows:
  - o D.S.T.s: Flow Tests and Shut-In pressure build up tests will be taken as needed in the Fruitland coal interval.
  - o Cores: None
  - o Logs: Mud log from intermediate casing shoe to TD
- 17. Anticipated no abnormal pressures or temperatures to be encountered or any other potential hazards such as Hydrogen Sulfide Gas. Low risk H2S equipment will be used.

Estimated Bottomhole pressures: Fruitland Coal - +/- 710 psi

18. The anticipated starting date is sometime during the 4<sup>th</sup> quarter of 2004 with duration of drilling and completion operations (in discontinuous operations) for approximately 60 days thereafter. A drilling rig will be used to topset the 7" casing above the Fruitland coal. At a later date, a cavitation rig will be brought in to drill out, possibly cavitate, and complete the Fruitland coal.

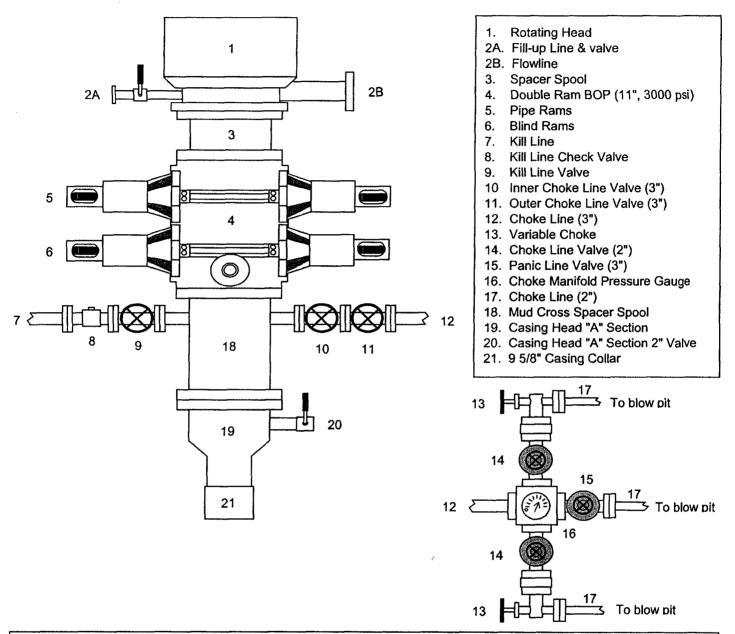
San Juan 32-8 # 257A

#### RKB **SURFACE CASING:** 13 ft above GL **Drill Bit Diameter** ĪD 9.625 9.001 Casing Outside Diameter Casing Weight 32.3 ppf Casing Grade Shoe Track H-40 Shoe Depth 234 40 ft Cement Yield 1.16 cuft/sk **Excess Cement** 125 % 0.4419 cuft/ft **Casing Capacity** 0.0787 bbl/ft Hole / Casing Annulus Capacity 0.0558 bbl/ft 0.3132 cuft/ft 149.5 sx **Cement Required** SHOE 234 ', 9.625 ", H-40 32.3 ppf, **INTERMEDIATE CASING: Drill Bit Diameter** ID 6.456 Casing Outside Diameter Casing Weight ppf Casing Grade Shoe Depth 3446 Lead Cement Yield 2.61 cuft/sk **Lead Cement Excess** 160 Shoe Track % **Tail Cement Length** 300 42 ft Tail Cement Yield 1.27 cuft/sk **Tail Cement Excess** 160 % 0.0405 bbl/ft 0.2273 cuft/ft **Casing Capacity** 0.1746 cuft/ft Casing / Casing Annulus Capacity 0.0311 bbl/ft Hole / Casing Annulus Capacity 0.0268 bbl/ft 0.1503 cuft/ft **Lead Cement Required** 451.7 sx **Tail Cement Required** 99.8 sx LINER TOP 3426 ' SHOE 3446 ', 20 ppf, J-55

LINER BOTTOM 3796 (Uncemented)

#### **BLOWOUT PREVENTER ARRANGEMENT & PROGRAM**

For Drilling to Intermediate Casing Point & Setting 7" Intermediate Casing



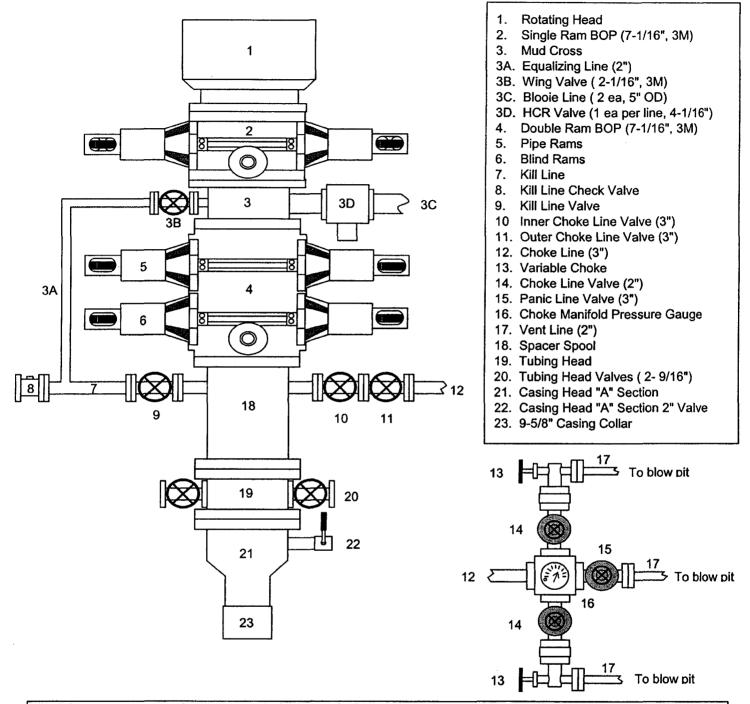
A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe rams and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 2-3 minutes and to 1000 psi (high pressure test) for 10 minutes. Then the test plug will be removed, and the 9-5/8" casing will be pressure tested against closed blind rams to 200 psi to 300 psi for 2-3 minutes and to 1000 psi for 30 minutes (this value is one 44% of the minimum internal yield pressure of the 9-5/8" casing). (Note: per regulatory requirements we will wait on cement at least 8 hrs after placement before testing the 9-5/8" surface casing). Then an 8-3/4" hole will be drilled to intermediate casing point and 7" intermediate casing will be run and cemented.

In addition to the equipment in the above diagram the following equipment will comprise the BOP system:

- 1. Upper Kelly cock Valve with handle
- 2. Stab-in TIW valve for all drillstrings in use

### **BLOWOUT PREVENTER ARRANGEMENT & PROGRAM**

For Cavitation Program



This BOP arrangement and test program is for the cavitation program. The BOP will be installed on the tubing head. The 7" casing will be pressure tested against closed blind rams to 200 psi to 300 psi for 2-3 minutes and to 1800 psi for 30 minutes - this test pressure is 48% of the minimum internal yield strength of 3740 psi for the 7", 20#, J-55, STC casing. The pipe rams and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 2-3 minutes and to 1800 psi (high pressure test) for 10 minutes - This test will be done with a test plug or possibly without a test plug (ie against casing). If we conduct this test without a test plug we will ensure that we have sufficient drillstring weight in the hole to exceed the upward force generated by the test.

We use a power swivel and air/mist to drill the 6-1/4" hole in our cavitation program. We do not use a kelly. In addition to the equipment in the above diagram the following equipment will comprise the BOP system:

- 1. String floats will be used inside the drillpipe
- 2. Stab-in TIW valve for all drillstrings in use
- 3. Each blooie line is equipped with a hydraulically controlled valve (HCR valve).