Form 3160-3 (August 1999)

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

BUREAU OF LAND N	5. Lease Serial No. SF-078687		
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Na	me
1a. Type of Work: 🔀 DRILL 🔲 REENTER		7. If Unit or CA Agreement, Nan	ne and No.
/ 1b. Type of Well: ☐ Oil Well     Gas Well ☐ Oth	ner Single Zone 🙀 Multiple Zone	8. Lease Name and Well No. SAN JUAN 32 FED 15 #2A	
	VICKI WESTBY E-Mail: VICKI.R.WESTBY@CONOCOPHILLIPS.COM	9. API Well No. 36-645-37	
3a. Address 4001 PENBROOK ODESSA, TX 79762	3b. Phone No. (include area code) Ph: 915.368.1352	10. Field and Pool, or Explorator BASIN FRUITLAND CO	ÅL
4. Location of Well (Report location clearly and in accorded to the surface NENW 1239FNL 1464FWL	000001123	11. Sec., T., R., M., or Blk. and 3	-
14. Distance in miles and direction from nearest town or post	office*	12. County or Parish SAN JUAN	13. State NM
<ol> <li>Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)</li> </ol>	16. No. of Acres in Lease 1305.10	17. Spacing Unit dedicated to th	is well
<ol> <li>Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ol>	19. Proposed Depth 3663 MD	20. BLM/BIA Bond No. on file	
21. Elevations (Show whether DF, KB, RT, GL, etc.	22. Approximate date work will start	23. Estimated duration	
	24. Attachments		
The following, completed in accordance with the requirements	of 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 Sys SUPO shall be filed with the appropriate Forest Service Of</li> </ol>	Item 20 above). tem Lands, the 5. Operator certification	ons unless covered by an existing be formation and/or plans as may be re	·
25. Signature (Electronic Submission)	Name (Printed/Typed) VICKI WESTBY Ph: 915.368.1352		ate )1/12/2005
Title AGENT			
Approved by (Signature)	Name (Printed/Typed)	D	nte./-05
Tidle AFM	Office FFO		
Application approval does not warrant or certify the applicant ho operations thereon.  Conditions of approval, if any, are attached.	olds legal or équitable title to those rights in the subject le	ease which would entitle the applica	nt 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 representations.	make it a crime for any person knowingly and willfully to tions as to any matter within its jurisdiction.	o make to any department or agency	of the United
Additional Operator Remarks (see next page)			

Electronic Submission #52912 verified by the BLM Well Information System For CONOCOPHILLIPS COMPANY, sent to the Farmington

#### State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe. NM 87505

Form C-102 Revised June 10, 2003

District H 1301 W. Grand Avenue, Artesia, NM 88210

"Joint or infill"Consolidation Code "Order No.

Submit to Appropriate District Office

District III 1000 Rio Brozos Rd., Azlec, NM 87410

1625 N. French Dr., Hobbs, NM 88240

District\_J

<sup>18</sup>Dedicated Acres

316.90

State Lease - 4 Copies

District\_IY

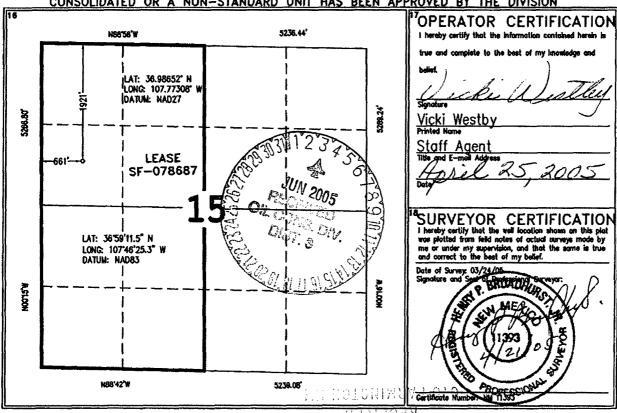
Fee Lease - 3 Copies

1220 S. St. Francis Dr., Santa Fe, NM 87505

**MAMMENDED REPORT** 

LOCATION AND ACREAGE DEDICATION PLAT 71629 BASIN FRUITLAND COAL (GAS) SAN JUAN 32 FED 15 #2A Operator Name CONOCOPHILLIPS COMPANY 6867 217817 <sup>10</sup>Surface Location UL or lot no. Section Township Lot Idn Feet from the North/South line Feet from the East/West line County 1921 NORTH WEST SAN JUAN 09W 661 32N Hole Different From <sup>1</sup>Bottom Location Surface UL or let no.

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



Submit 3 Copies To Appropriate District Office	State of New Mexico	Fonn C-103		
District I	Energy, Minerals and Natural Resources	May 27, 2004		
1625 <sup>t</sup> N. French Dr., Hobbs, NM 88240 District 11		WELL API NO.		
1301 W. Grand Ave., Artesia, NM 882 10	OILCONSERVATION DIVISION	5. Indicate Type of Lease		
<u>District III</u> I 000 Rio Brazos Rd., Aztec, NM 8741 0	1220 South St. Francis Dr.	STATE FEE		
District IV	Santa Fe, NM 87505	6. State Oil & Gas Lease No.		
1220 S. St. Francis Dr., Santa I e, NM 87505				
	TCESANDREPORTSONWELLS	7. Lease Name or Unit Agreement Name		
(DONOTUSETHIS FORMFOR PROPO	OSALS TO DRILL OR TO DEEPEN OR PLUGBACK TO A CATION FOR PERMIT (FORM C-101) FOR SUCH			
PROPOSALS)		San Juan 32 Fed 15		
1. Type of Well: Oil Well	Gas Well Other	8. Well Number 2A		
2. Name of Operator	Company Phillips Company	9. OGRID Number		
3. Address of Operator	ConocoPhillips Company	I O. Pool name or Wildcat		
3. Addiess of Operator	4001 Banhmade Odassa TV 70762			
4. Well Location	4001 Penbrook, Odessa, TX 79762	Basin Fruitland Coal		
Unit Letter E	1921 feet from the North line and	661 feet from the West line		
Section 15	Township 32N Range 9W	NMPM San Juan County		
Doctor	I 1. Elevation (Show whether DR, RKB, RT, GR, etc.	County		
	6867' GL	<u> </u>		
Pit or Below -grade Tank Application	······································			
Pit type Drill Depth to Groundw	ater $\frac{115'}{}$ Distance from nearest fresh water well $\geq 1$ mile	Distance from nearest surface water 290'		
Liner Thickness: mil	Below-Grade Tank: Volume bb1s; Co	nstruction Material		
12. Check A	Appropriate Box to Indicate Nature of Notice,	Report or Other Data		
NOTICE OF IN	TENTION TO:	ACCOLICAT DEPORT OF		
PERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDIAL WOR	SEQUENT REPORT OF:  K		
TEMPORARILY ABANDON	CHANGE PLANS COMMENCE DR			
PULLORALTER CASING	MULTIPLE COMPL CASING/CEMEN	<u></u>		
OTHER:	OTHER:    OTHER:   Dieted operations. (Clearly state all pertinent details, and			
of starting any proposed wo	orted operations. (Clearly state an pertinent details, and ork). SEE RULE I 1 03. For Multiple Completions: Att	a give perunerii dates, including estimated date		
or recompletion.	23, CLESTO CONTRACTOR CONTRACTOR IN	wenove dangum of proposed completion		
The pit will be constructed and closed in	accordance with Rule 50 and as per the Nov. 1, 2004 Guid	lelines. See the attached diagram that details the		
location of the pit in reference to the pro	pposed wellhead. The drill pit will be lined. The drill pit wil	Il be closed after the well has been completed.		
	_	•		
I hereby certify that the information all grade tank has been/will be constructed or constructed	pove is true and complete to the best of my knowledge are losed according to NMOCD guidelines [], a general permit []	nd belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan		
SIGNATURE Vicki Westby	TITLE Staff Agent	DATE 5/6/2005		
Type or print name	E-mail address:	Telephone No.		
For State Use Only		- m		
har.	, <b>DEPUTY OIL</b> & GAS INS	FECTOR, DIST. # JUN - 3 2005		
APPROVED BY: Approval (if any):	TITLE	DATE DATE		

CONOCOPHILLIPS COMPANY SAN JUAN 32 FED UNIT 15 #2A 1921' FNL & 661' FWL, SECTION 15, T32N, R09W, NMPM SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6867' 50' CONSTRUCTION ZONE C F4.0 BLOW PIT DRAIN TO RESERVE RESERVE PIT 55' X 125' \*SURFACE OWNER\* BLM 85 85 PLAT NOTE: 30, ① CO.4 N73E ---125' 150' 125 125 125 \_]|② C'F8.5 A-A' 6877' 6867' 6857 B-B' 6877' 6867' 6857' C-C' 6877' 6867' 6857 FILENAME: SJ32-9 FED15 2A.dwg SHEET 2 OF 6 CHENAULT CONSULTING INC. DRAWN BY:J. FUNK CHECKED BY:G. CHENAULT Form 3160-5 (April 2004)

# UNITED STATES DEPARTMENT OF THE INTERIOR 23 BUREAU OF LAND MANAGEMENT

FORM APPROV	ED
OM B No. 1004-01	
Expires: March 31	200

5. Lease Serial No.

			<b>₹</b> 4/3 <b>2</b> ,	E. C
SUNDRY	NOTICES	AND	REPORTS	ON WELLS

SUNDRY	NOTICES AND REA	RORTS ONAM	ÆLLS 🤼	Sr-0/80	18 / 
Do not use the abandoned we	is form for proposals and the second	lo drill for to f APD) for such	proposals.	6. If Indian	, Allottee or Tribe Name
SUBMIT IN TR	IPLICATE- Other inst	ructions on rev	erse side.	7. If Unit or	CA/Agreement, Name and/or No.
1 Type of Well		Territoria de la companya della companya della companya de la companya della comp		-	
OilWell	Gas Well Other	CE OLIV	01 6/2/2	8. Well Nar	
2. Name of Operator ConocoPhilli	ns Company	Te UL LI	27.2		an 32 Fed 15 #2A
3a Address		3b. Phone No. (inc.	luda area coda)	9. API We	D45 32831
4001 Penbrook, Odessa, TX 79	9762	432-368-1352	ade drea code)		d Pool, or Exploratory Area
4. Location of Well (Footage, Sec.,	T., R., M., or Survey Description)	1921/N alel	Tin	J	ruitland Coal
SWNW Section 15, T32N, R9	W, 2011 FIND - 2011 F W.L.	MAI/N WEI	<i>)</i> • • • • • • • • • • • • • • • • • • •	11. County of	or Parish, State
	1205-1400			San Jus	an County, NM
12. CHECK AI	PPROPRIATE BOX(ES) TO	INDICATE NAT	URE OF NOTICE, I	REPORT, OR	OTHER DATA
TYPE OF SUBMISSION		7	YPE OF ACTION		
	Acidize	Deepen	Production (Si	tart/Resume)	Water Shut-Off
✓ Notice of Intent	Alter Casing	Fracture Treat	Reclamation		Well Integrity
Subsequent Report	Casing Repair	New Construction			Other Move Location
Final Abandonment Notice	Change Plans Convert to Injection	Plug and Abando Plug Back	n Temporarily A  Water Disposal		
		<del></del>	<del></del>		rk and approximate duration thereof.
determined that the site is ready ConocoPhillips Company SWNW of Section 15, T32 Revised supporting docum	requests to move the location on N, R9W, 1921 FNL - 661 FWI	of this well to the fo 	llowing: and Fill Plat; Well Pro		ent calculations; Road Plat and
14. I hereby certify that the fore Name (Printed/Typed) Vicki Westby	going is true and correct	Title	STaff Agent		,
Signature Vicke U	lestby (Di)	Date		05/06/2005	
	THIS SPACE FOR I	EDERAL OR	STATE OFFICE	USE	
Approved by Conditions of approval of any, are a	an kee (	does not warrant or	Title AFM	D	ate 6-/-05
certify that the applicant holds legal which would entitle the applicant to	or equitable title to those rights in		Office FC	)	

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)



### PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

**SAN JUAN 32 FED 15 2A** 

Lease:					AFE #: W	AN.CBM	l.5108			1	AFE \$:
Field Name: CB	M DRILL BLC	CKS	Rig:				State:	NM (	County: SAN JUAN	1	API #:
Geoscientist: Cl	loud, Tom A		Phone	e: +1 832 <u>4</u>	86-2377	Prod.	Engineer:	Bergr	nan, Pat W.	Pho	ne: (832) 486-2358
Res. Engineer:	Peterson, Bra	dΤ	Phone	: 486-2055		Proj.	Field Lead:			Phor	ne:
Primary Objec	tive (Zones	<b>)</b> ;					-		75 Fall		
Zone	Zone Nar	ne									
JCV	BASIN FR	UITLAND COAI	(GAS)								
				_							
Location: Surfa		"   107 =	_		333						Straight Hole
Latitude: 36.99		gitude: -107.7		X:		Y:			Section: 15		Range: 9W
Footage X: 661	FWL Foot	age Y: 1921 F	NL	Elevation:	6867	(FT)	Township: 3	32N			
Tolerance:											
Location Type:	_		Start [	Date (Est.):		Cor	npletion Dat	te:	Date I	n Opera	ation:
Formation Data:	Assume KE	3 = 6880	Units =	FT							
Formation Call &		Depth (TVD in Ft)	SS	Depletion		внт			Remark		
Casing Points				(Yes/No)	(PSIG)						
SAN JOSE Surface Casing		13 213	6867 6667				12 1/4 hal	. O.E	/0" 22 2 mmf 11 40	CTC	sing. Circulate cement
Surface Casing		213	0007				to surface.	e. 90,	76 32.3 ppi, <del>11-4</del> 0,	STC Cas	sing. Circulate cement
NCMT		930	5950								
OJAM		2270	4610				Possible wa	ater flo	ws.		
KRLD		2370	4510								
FRLD		3315	3565				Possible ga				
Intermediate Casir	ng	3345	3535				8 3/4" Hole surface.	e. 7",	20 ppf, J-55, STC C	asing.	Circulate cement to
TOP COAL		3370	3510								
BASE MAIN COAL		3530	3350		900						
PC TONGUE		3580	3300								
BASE LOWEST CO	AL	3630	3250								
PCCF		3635	3245								
Total Depth		3700	3180				6-1/4" hole	possib	oly underreamed to left uncemented.	9.5". (	Optional Liner: 5.5",
Réference Wells	5		44.	4 (4 + 4			10.57 / 5 55		icie uncementeu.		
Reference Type	Well Name			Comment	:s						19
Intermediate	EPNG SJ 32										
Intermediate	EPNG SJ 32	2-9 #66							<del></del>		

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#### PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

**SAN JUAN 32 FED 15 2A** 

Logging Prog	ram:	April 1985 Control				
Intermediate Lo	ogs: 🔲 Log only	if show GR/ILD	☐ Triple Com	nbo		
TD Logs:	☐ Triple Co	ombo 🔲 Dipmeter	☐ RFT ☐ Sc	onic VSP TDT		
				COPC will comply with		
Additional Infor	mation:	the BLM's Condition sump/rathole in this formation				
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks	

Comments: Zones - Mud Log from intermediate casing shoe to TD will be obtained. No PCCF PA. Prospective coal just above PCCF.

Drilling Mud Program:

Surface: spud mud

Intermediate: fresh water mud with bentonite and polymer as needed

Below Intermediate: air/mist drilling media with foamer, polymer, & corrosion inhibitor as needed

Centralizer Program:

Surface: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 3rd, & 4th joints
Intermediate: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 4th, 6th, 8th, & 10th
oints

Turbolizers placed one per joint from the top of the Ojo Alamo to the top of the Kirtland Shale

General/Work Description - Provide funds to drill and complete the Fruitland Coal formation in the San Juan 32 Fed 15 # 2A located in the NW 1/4 of Section 15, T32N,R9W, Basin Fruitland Coal Field, San Juan County, New Mexico.

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#### San Juan 32 Fed 15 # 2A **Halliburton Cementing Program**

#### **SURFACE CASING:**

Drill Bit Diameter Casing Outside Diameter Casing Weight Casing Grade Shoe Depth	9.625 " 9.625 " 32.3 ppf H-40 230	Casing Inside Diam. 9.001"
Cement Yield	1.21 cuft/sk	
Cement Density	15.6 lb/gal	
Excess Cement	125 %	
Cement Required	141 sx	

SHOE

230 ', 9.625 ", 32.3 ppf, H-40 STC

#### **INTERMEDIATE CASING:**

Drill Bit Diameter	8.75	ľ	
Casing Outside Diameter	7	-	Casing Inside Diam. 6.456
Casing Weight	20	ppf	
Casing Grade	J-55	i .	
Shoe Depth	3345	٠	
Lead Cement Yield	2.91	cuft/sk	
Lead Cement Density	11.5	lb/gal	
Lead Cement Excess	160	%	
Tail Cement Length	315	•	
Tail Cement Yield	1.33	cuft/sk	
Tail Cement Density	13.5	lb/gal	
Tail Cement Excess	160	%	
Lead Cement Required	389	sx	
Tail Cement Required	100	sx	

LINER TOP 3325 '

SHOE 3345 ', 7 ", 20 ppf,

J-55

LINER BOTTOM 3700 (Uncemented)

#### **SAN JUAN 32 FED 15 #2A**

#### HALLIBURTON OPTION

	HALLIDOITT OIT OF THE		
	9-5/8 Surface Casin	g	
	Standard Cement		
Cement Recipe	+ 3% Calcium Chlori	de	
,	+ 0.25 lb/sx Flocele		
Cement Volume	141	SX	
Cement Yield	1.21	cuft/sx	
	170.7	cuft	
Slurry Volume	30.4	bbls	
Cement Density	15.6 ppg		
Water Required	5.29	gal/sx	

7" Intermediate Casing					
Lead Slurry					
Standard Cement					
O and Oralina		t Circulation Additive)			
Cement Recipe	+ 10 lb/sx Gilsonite (	+ 10 lb/sx Gilsonite (Lost Circ. Additvie)			
	+ 0.25 lb/sx Flocele (Lost Circ. Additive)				
Cement Required	389	sx			
Cement Yield	2.91	cuft/sx			
	1132.7	cuft			
Slurry Volume	201.8	bbls			
Cement Density	11.5				
Water Required	16.88	gal/sx			

7" Intermediate Casing				
Tail Slurry				
	50 / 50 POZ:Standar	d Cement		
Ì	+ 2% Bentonite (Ligh	nt Weight Additive)		
Cement Slurry	+ 5 lbm/sk Gilsonite	(Lost Circ. Additive)		
,	+ 0.25 lbm/sk Flocele (lost Circ. Additive)			
	+ 2% Calcium Chloride (Accelerator)			
Cement Required	100	SX		
Cement Yield	1.33	cuft/sx		
	132.7	cuft		
Slurry Volume	23.6	bbls		
Cement Density	13.5	ppg		
Water Required	5.36	gal/sx		

#### SCHLUMBERGER OPTION

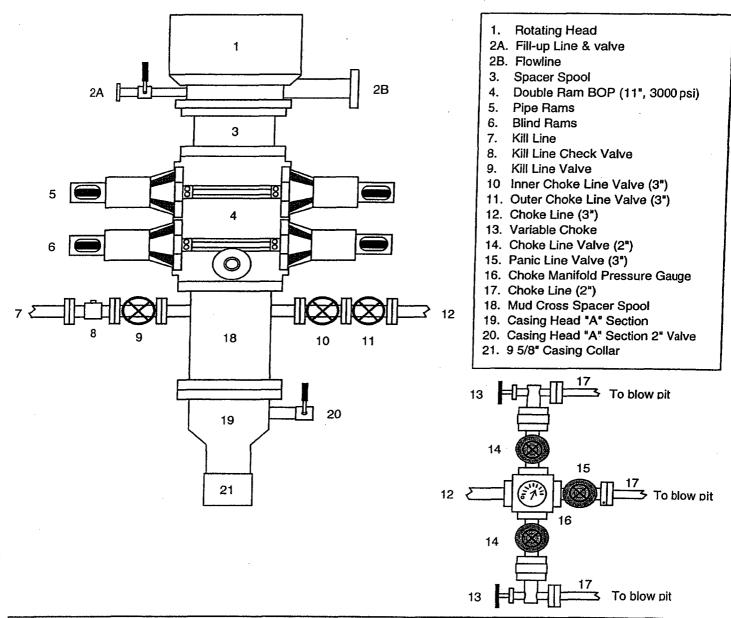
	9-5/8 Surface Casing	]	
Cement Recipe	Class G Cement		
	+ 3% S001 Calcium Chloride		
	+ 0.25 lb/sx D029 Cellophane Flakes		
Cement Volume	147	sx	
Cement Yield	1.16	cuft/sx	
Slurry Volume	170.7	cuft	
	30.4	bbls	
Cement Density	15.8	ppg	
Water Required	4.983	gal/sx	

	7" Intermediate Casin	g
	Lead Slurry	
Cement Recipe	Class G Cement	
	+ 3% D079 Extender	
	+ 0.25 lb/sx D029 Cellophane Flakes	
	+ 0.2% D046 Antifoam)	
Cement Required	436	sx
Cement Yield	2.61	cuft/sx
Slurry Volume	1138.6	cuft
	202.8	bbls
Cement Density	11.7	ppg
Water Required	15.876	gal/sx

7" Intermediate Casing				
Tail Slurry				
Cement Slurry	50 / 50 POZ : Class G Cement			
	+ 2% D020 Bentonite			
	+ 5 lb/sx D024 Gilsonite extender			
	+ 0.25 lb/sx D029 Cellophane Flakes			
	+ 2% S001 Calcium Choloride			
	+ 0.2% D046 Antifoam			
Cement Required	100	sx		
Cement Yield	1.27	cuft/sx		
Slurry Volume	126.9	cuft		
	22.6	bbls		
Cement Density	13.5	ppg		
Water Required	5.182	gal/sx		

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

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



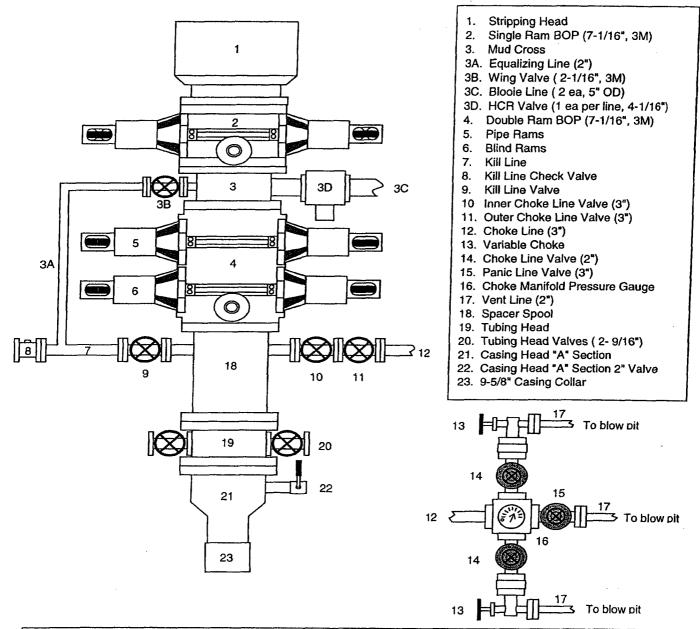
A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe rams and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 10 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 10 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 10 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 10 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).