UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR PERMIT TO DRILL, DEEPEN	i, O	R PLUG BACK 2007 FEB - 5 PM 3: 1
1a.	Type of Work DRILL	5.	Lease Number RECEIVED NMSF-078417 Unit Reporting Number 10 FARMINGTON NM
1b.	Type of Well GAS	6.	If Indian, All. or Tribe
2.	Operator	7	Unit Agreement Name
	ConocoPhillips	,.	Olic Agrooment Hamo
			San Juan 28-7 Unit
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499		Farm or Lease Name
	(505) 326-9700	9.	Well Number #248M
4.	Location of Well Surface - Unit J (NWSE) 2630' FSL & 1520' FEL, BH - Unit H (SENE) 2200' FNL & 300' FEL		D. Field, Pool, Wildcat asin Dakota / Blanco MV
	Latitude 36° 39.6700'N Lat - 107° 36.6257'W		1. Sec., Twn, Rge, Mer. (NMPM) ec <u>.</u> 18, T28N, R07W
	Latitude 36° 39.7409'W; Longitude 107° 36.3767'	W	PI # 30-039- 30/93
14.	Distance in Miles from Nearest Town		2. County 13. State io Arria NM
15.	Distance from Proposed Location to Nearest Property or Lease Line 1520'		
16.	Acres in Lease		7. Acres Assigned to Well 20 2 - MV & DK
18.	Distance from Proposed Location to Nearest Well, Drlg, Compl, or A	Арр	lied for on this Lease
19.	Proposed Depth 8020'		0. Rotary or Cable Tools otary
21.	Elevations (DF, FT, GR, Etc.) 6901' GL	22	2. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program		d'ivectimation FER21'07
24.	Authorized by: Regulatory Specialist	194	Survey OIL CONS. DIV. DIST. 3 Date
PERMI	T NO. APPROVAL DA	TE	26:10
APPRO	OVED BY A OULE DE TITLE ATM		DATE ZINO

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Title 18 U.S.C. Section 1001, makes 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 presentations as to any matter within its jurisdiction.

NMOCD

& 2-23-07

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

4/3

DISTRICE) 1625 N. French Dr., Hobbs, N.M. 86240

1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT III

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005

DISTRICT II 1301 West Grand Avenue, Artesia, N.M. 88210

OIL CONSERVATION DIVISION

Submit to Appropriate District Office

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

State Lease - 4 Copies Fee Lease - 3 Copies

1220 S. St. Francis Dr., Santa Fe. NM 67505

2007 FEB -5 PM 3: 45

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT 210 FARHINGTON NM

30-039- 30193 Property Code	72319/71599	Blanco Mesaverde / Basin Dakota				
Bronauty Code			1			
• •	- 1					
31739		SAN JUAN 28-7 WIF				
OGRID No. 217817	⁹ Оре	erator Name	^o Elevation			
217017	6901'					

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	18	28-N	7-₩		2630'	SOUTH	1520'	EAST	RIO ARRIBA
	11 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
Н	18	28-N	7-W	}	5500,	NORTH	300'	EAST	RIO ARRIBA
¹⁸ Dedicated Acres ¹⁸ Joint or Infill				14 Consolidation C	ode	18 Order No.	4 		
320 acres (£ 2		7							

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

16	LAT: 36°39.7409' N.	N 89° 55 263	ω,	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased interest interest in the land including the proposed bottom hole location or has a right to drull this well at the location pursuant to a contract with an owner of such a mineral or a working interest, or to a voluntary pooling agreement or a compulsory pooling order hierafore entered by the
	LONG: 10736.3767' W. NAD 1927		0' 08' 36" 2628.01	or a compulsory pooling order haratofore entered by the division.
	LAT: 36.662356 N. LONG: 107.606888 W. NAD 1983 Bottom Hole	SF-078417	2200	Signature Patsy Clugston/ Sr. Regulatory
		Surface	Bottom Hole 300'	Printed Name Specialist
	1	8	1520'	18 SURVEYOR CERTIFICATION
	LAT: 36'39.6700' N. LONG: 107'36.6257' W. NAD 1927	2630'	S (7 0 268	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 beltaf. Date of Surveys H. RUSSE
	LAT: 36.661175 N. LONG: 107.611037 W. NAD 1983 Surface		O' 07' 05" E 2635.46'	Signature of Surveyor Continues Surveyor:
		59'32" ¥ 5.77'		Certificate Number 15703

Submit 3 Copies To Appropriate District Office State of New Mexico	Form C-103
District I 1625 N. Frènch Dr., Hobbs, NM 88240 Energy, Minerals and Natural Reso	WELL API NO. 30-039- 3019 3
District II 1301 W. Grand Ave., Artesia, NM 88210 OIL CONSERVATION DIVI	5. Indicate Type of Lease
District III 1220 South St. Francis Dr. 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, NM 87505	STATE FEE 6. State Oil & Gas Lease No.
District IV	Federal Lease SF-078417
1220 S. St. Francis Dr., Santa Fe, NM 87505 SUNDRY NOTICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	_
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	San Juan 28-7 Unit
1. Type of Well: Oil Well Gas Well X Other	8. Well Number #248M
2. Name of Operator	9. OGRID Number
ConocoPhillips Company 3. Address of Operator	217817
3401 E. 30TH STREET, FARMINGTON, NM 87402	Blanco Mesaverde / Basin Dakota
2007	and 1520' feet from the East line
Section 18 Township 28M Rng 11. Elevation (Show whether DR, RKB, RT, GR, e	7W NMPM County Rio Arriba
Pit or Below-grade Tank Application or Closure	>200
Pit type New Drill Depth to Groundwater >100' Distance from nearest fresh water	a l
Pit Liner Thickness: 12 mil Below-Grade Tank: Volume	4400 bbls; Construction Material Synthetic
12. Check Appropriate Box to Indicate Nature	•
NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON R	SUBSEQUENT REPORT OF: EMEDIAL WORK ALTERING CASING
	OMMENCE DRILLING OPNS. P AND A
PULL OR ALTER CASING MULTIPLE COMPL C.	ASING/CEMENT JOB
OTHER: New Drill X O	THER:
13. Describe proposed or completed operations. (Clearly state all pertinent deta	
of starting any proposed work). SEE RULE 1103. For Multiple Completion or recompletion.	is: Attach wellbore diagram of proposed completion
Navy Daill Linedy CongooDhilling manages to construct a navy deilling ait on con-	resisted worth from the said a sure set and site (if a said a like it is a said a like
New Drill - Lined: ConocoPhillips proposes to construct a new drilling pit, an ass on ConocoPhillips' interpretation of the Ecosphere's risk ranking criteria, the new	
ConocoPhillips' General Plan dated June 2005 on file at the NMOCD office. A p	ortion of the vent/flare pit will be designed to manage fluids and
that portion will be lined as per the risk ranking criteria. ConocoPhillips anticipa Guidelines.	tes closing these pits according to the November 1, 2004
Guidennes.	
	•
I hereby certify that the information above is true and complete to the best of my kno grade tank has been/will be/constructed or closed according to NMOCD guidelines , a general p	wledge and belief. I further certify that any pit or below- ermit X or an (attached) alternative OCD-approved plan .
SIGNATURE Patrix Cluston TITLE	Regulatory Specialist DATE 11/10/2006
	spl@conocophillips.co Telephone No. 505-326-9518
For State Use Only	FFR 9.3 2001
APPPROVED BY TITLE	Y OR & GAS INSPECTOR, OIST. # DATE

APPPROVED BY
Conditions of Approval (if any):

FEB 23 2007

CONOCOPHILLIPS COMPANY

R-7-W, NMPM, RIO ARRIBA COUNTY DATE: JUNE 27, 2006 SAN JUAN 28-7 UNIT 248M, 2630' FSL & 1520' FEI GROUND ELEVATION: 6901', . '81 NOL

0 0 0 130, 530' X 400' = 3.03 ACRES LAYDOWN S 59" E (T) Wellhead to side 120, ,99 ,92 Wellhead to back DIKE REAR **JOSI** 50' NEW ACCESS EDGE OF DISTURBANCE

RESERVE BIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).

HININES OK CABLES ON WELL IS NOT LLABLE FOR UNDERGROUND VILLINES OR UNMARKED BURIED

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED

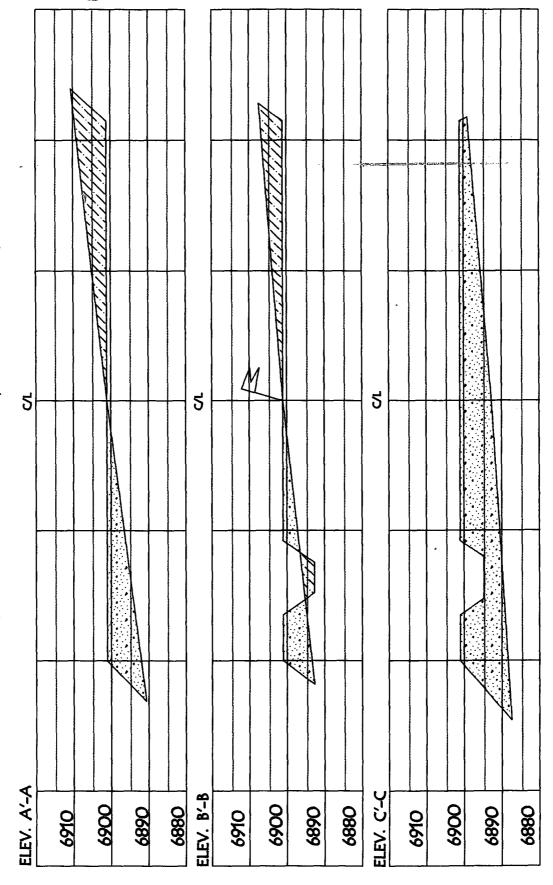
NOTE: VECTOR SHOULD CALL ONE-CALL FOR UNDERGROUND VILLING (2) WORKING DAYS PRIOR TO CONSTRUCTION.

i de

ATITUDE: 36' 39.6700'N LONGITUDE: 107' 36.6257'W NAD27

CONOCOPHILLIPS COMPANY

SAN JUAN 28-7 248M, 2630' FSL & 1520' FEL SECTION 18, T-28- N, R-7-W, NMPM, RIO ARRIBA COUNTY, NM GROUND ELEVATION: 6901', DATE: JUNE 27, 2006



CONTRACTOR SHOVID CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION. NOTE: VECTOR SURVEYS LLC IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.



PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-7 UNIT 248M

Lease:	AFE #: V	VAN.CNV.7176	AFE \$:
Field Name: 28-7	Rig: Aztec Rig 673	State: NM County: RIO ARRIBA	A API #:
Geoscientist: Glaser, Terry J	Phone: (281) 293 - 6538	Prod. Engineer: Fontenot, Jessie C	Phone: +1 832-486-3483
Res. Engineer: Johnson, Tom B.	Phone: (832)-486-2347	Proj. Field Lead: Fransen, Eric E.	Phone:
Primary Objective (Zones):			
Zone Name			
R20002 MESAVERDE(R20002)			
R20076 DAKOTA(R20076)			
36 39 40.2048,10		36 39:67008 107 36.	62568
Location: Surface Datum Co	de: NAD 27		Deviated
Latitude: 36.661168 Longitude: -107.6	10428 X:	Y: Section: 18	Range: 007W
Footage X: 1520 FEL Footage Y: 2630 F	SL Elevation: 6901	(FT) Township: 028N	
	07 36 22,6044	56 39.74094 107 36.	
Location: Bottom Hole Datum Co	de: NAD 27		Deviated
Latitude: 36.662349 Longitude: -107.66	06279 X:	Y: Section: 18	Range: 007W
Footage X: 300 FEL Footage Y: 2200 F	NL Elevation:	(FT) Township: 028N	
Tolerance:	· · · · · · · · · · · · · · · · · · ·		
Location Type: Year Round	Start Date (Est.):	Completion Date: Date	In Operation:
Formation Data: Assume KB = 6917	Units = FT		
Formation Call & Depth (TVD in Ft)	SS Depletion BHF (Ft) (Yes/No) (PSI		rks
NCMT 1317	5600		
OJAM 2592	4325	Possible water flows.	
KRLD 2742	4175	De sallelle en e	
FRLD 3242	3675	Possible gas.	
PCCF 3542 LEWS 3742	3375		
CHRA 4467	3175		
CLFH 5197	1720	Gas; possibly wet	
MENF 5327	1590	Gas.	
PTLK 5767	1150	Gas.	
GLLP 7027	-110	Gas. Possibly wet.	
GRHN 7705	-788	Gas possible, highly fractured	
GRRS 7768	-851		
TWLS 7807	-890	Gas	
PAGU 7906	-989	Gas. Highly Fractured.	
CBBO 7936	-1019	Gas	
CBRL 7969	-1052		
TD 8020	-1103		
Reference Wells: Reference Type Well Name	Comments		
Intermediate SJ 28-7 199G	18-28N-7W-SW, K	B = 6899	
Intermediate SJ 28-7 242F	18-28N-7W-NW, K		

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PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 28-7 UNIT 248M

Logging Prog	ram:					
		if show GR/ILD			O. (20 State	0. 886. 10. 7548-14 11. 1448-1.
TD Logs:	Triple C	ombo 🗌 Dipmeter	RFT Sonic	□ VSP ☑ TDT		
	» <u>*</u>					
Additional Infor	mation:					
-Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks	

Comments: Location/Tops/Logging - TD is 315' below GRHN MVNM028N007W18NE2 DK 28N07W18NE2

Zones - MVNM028N007W18NE2 DK 28N07W18NE2

Printed on: 1/29/2007 10:13:43 AM

San Juan 28-7 #248M OPERATIONS PLAN

Well Name:

San Juan 28-7 #248M

Objective:

Mesa Verde/Dakota

Location:

Rio Arriba NM

Elevation:

6901'

Bottom Hole Coordinates/Footages

Surface Coordinates/Footages

T - 28 N R-7W Sec.: 18

2630' FSL

1520' FEL

Latitude:

36° 39.6701' N Longitute: 107° 36.6257' W 2200' FNL

T-28 N R-7W Sec.: 18 300' FEL

Latitude: 36° 39.7409' N

Longitute: 107° 36 3767' W

Top (TMD)	Top (TVD)	Contents
0	0	
1367	1317	
2758'	2592'	aquifer
2922'	2742'	
3468'	3242'	gas
3785'	3542'	
3988'	3742'	
4714'	4467'	
5444'	5197'	gas
5574'	5327'	gas
6014'	5767'	gas
7274'	7027'	gas
7952'	7705'	gas
8015'	7768'	
8054'	7807'	gas
8153'	7906'	gas
8183'	7936'	gas
8216'	7969'	
<i>8267'</i>	8020'	
	0 1367 2758' 2922' 3468' 3785' 3988' 4714' 5444' 5574' 6014' 7274' 7952' 8015' 8054' 8153' 8183' 8216'	0 0 1367 1317 2758' 2592' 2922' 2742' 3468' 3242' 3785' 3542' 3988' 3742' 4714' 4467' 5444' 5197' 5574' 5327' 6014' 5767' 7274' 7027' 7952' 7705' 8015' 7768' 8054' 7807' 8153' 7906' 8183' 7936' 8216' 7969'

Logging Program:

Cased Hole:

CBL-GR

Open Hole:

None

Cased

Mud Program:	Interval (TMD)	<u>Type</u>	Weight (ppg)	<u>Vis. (s/qt)</u>	Fluid Loss (cc/30min)
	0' - 200'	Spud	8.4-9.0	40-50	No control
	200' - 4247'	Non-dispersed	8.4-9.0	30-60	Less than 8
	4247' - 8267'	Air/Air Mist/Nitrogen	n/a	n/a	n/a
Casing program:	Interval (TMD)	Hole Size	Casing Size	Weight	<u>Grade</u>
	0' - 200'	12 1/4"	9 5/8"	32.3#	H-40
	200' - 4247'	8 3/4"	7"	23.0#	L-80
	4247 - 8267' 4197	6 1/4"	4 1/2"	11.6#	L-80
Tubing program:	Interval (TMD)	Hole Size	Casing Size	Weight	Grade

2 3/8"

4.7#

J-55

Wellhead Equipment

9 5/8" x 7" X 4 1/2" x 2 3/8" - 11" (2000 psi) wellhead assembly

0' - 8267'

<u>Drilling:</u> Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

Drill to surface casing point of 200' and set 9.625" casing.

THE SE

Intermediate

Mud drill to kick off point of 250'. At this point the well will be directionally drilled by building 3 degrees per 100' with an azimuth of 70.41 degrees. The end of the build will be at a TVD of 1015', a TMD of 1037', a reach of 160', and an inclination of 23.62 degrees. This angle and azimuth will be held to a TVD of 3235', a TMD of 3460', and a reach of 1131'. At this point the well will be drilled with a drop of 3 degrees per 100'. The end of the drop will be at a TVD of 4000', a TMD of 4247', a reach of 1291', and an angle of 0.0 degrees. 7" casing will be set at this point.

Production

From the shoe of the intermediate string, the well will be drilled vertically with an air hammer to a TVD of 8020' (TMD of 8267'). 4.5" casing will be set at this point.

Cementing

9.625" surface casing conventionally drilled: **200%** excess cement to bring cement to surface.

Run 188 cu.ft. (147 sks) Type III cement with 3% CaCl2 and 1/4 pps celloflake (1.28 sks/ cu.ft.). Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60° F prior to nipple up of BOPE. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface.

7" intermediate casing: 50% excess cement to bring cement to surface.

CE

Lead with 834 cu.ft. (392 sks) Premium Lite w/ 3% CaCl2, 0.25 pps Cello-Flake, 5 pps LCM-1, 0.4% FL-52 and 0.4% SMS (2.13 sks/ft3). Tail with 124 ft3 (90 sks) Type III cmt. w/ 1% CaCl2, 0.25 pps Cello-Flake and 0.2% FL-52 (1.38 sks/ft3). If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC.

4.5" production casing: **30%** excess cement to achieve 100' overlap with intermediate casing. Run 548 cu.ft. (277 sks) Premium Lite HS FM + 0.25pps Cello-Flake, 0.3% CD-32, 6.25pps LCM-1, 1% FL-52 (1.98 sks/ft3.)

BOP and Tests

Surface to Total Depth – 11", 2000 psi double gate BOP stack (Reference Figure #1).

Surface to Total Depth - choke manifold (Reference Figure #2).

Prior to drilling out surface casing, test BOPE and casing to 600 psi for 30 minutes.

Pipe rams will be actuated at least once each day and blind rams will be actuated once each trip to test proper functioning. A Kelly cock valve and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

BOPE tests will be performed using an appropriately sized test plug and test pump and will be recorded using calibrated test gauges and a properly calibrated strip or chart recorder. The test will be recorded in the driller's log and will include a low pressure test requirement of 250 psig held for five minutes and a high pressure test requirement held for ten minutes as described in Onshore Order No. 2 or otherwise noted in the APD. A successful BOPE test using a test plug is considered when no pressure drop occurs over the duration of the test. Test gauges and recorders must be of the proper range and resolution commensurate with the authorized test pressure. Where the intermediate casing strings are used, only one BOPE test will be necessary contingent upon the test being conducted to the highest approved test pressure to which BOPE will be exposed. Casing pressure tests must be held for 30 minutes with no more than 10 percent pressure drop during the duration of the test.

Additional Information:

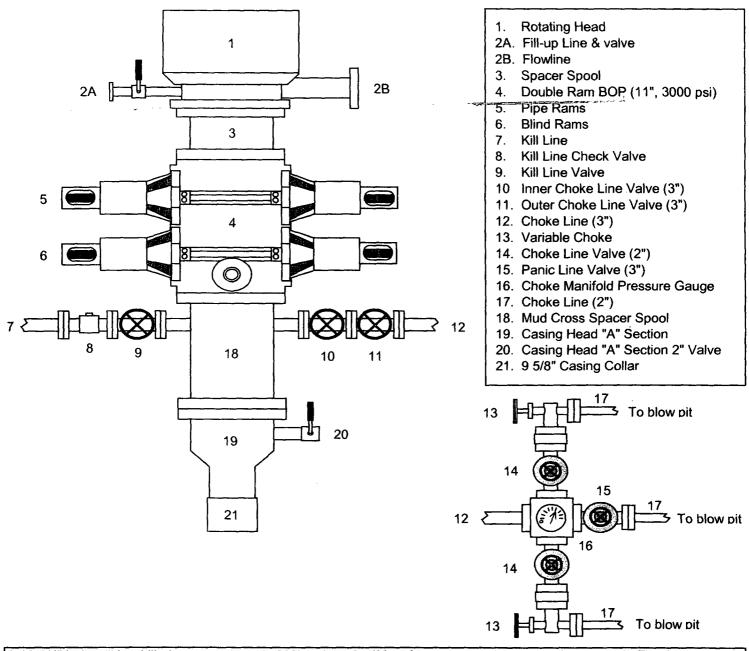
- No gas dedication.
- · New casing will be utilized.
- Pipe movement (reciprocation) will be done if hole conditions permit.
- No abnormal pressure zones are expected.
- BHP is expected to be 2000 psi.

Drilling Engineer

1/29/07 Date

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

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



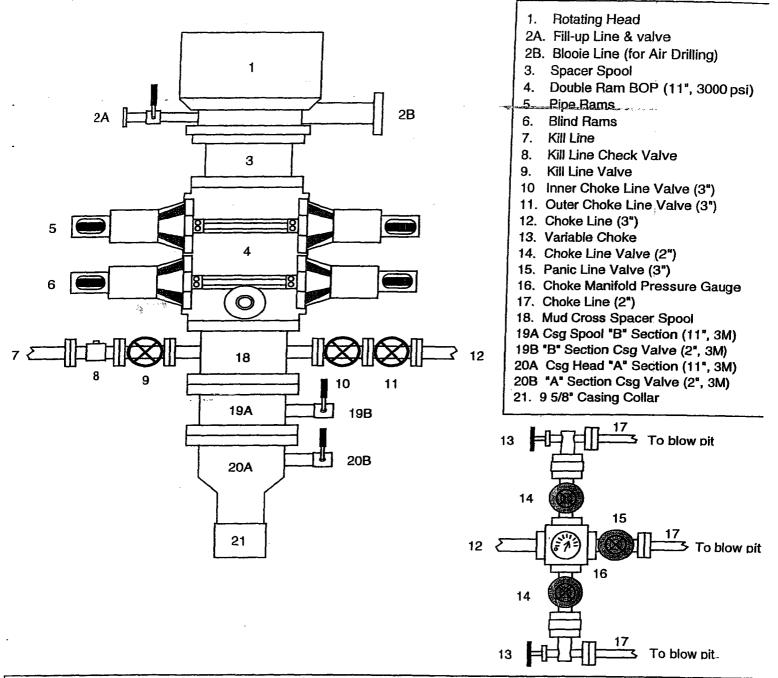
A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe 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 Drilling to TD and Setting 4.5 inch Casing



After the 7" intermediate casing has been run and cemented, the Casing Spool ("B" Section) will be installed on the wellhead ("A" Section) and the BOP will be installed on the Casing Spool. A test plug will be set in the wellhead and the pipe rams, blind rams, and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 10 minutes and to 3000 psi (high pressure test) for 10 minutes. Then the test plug will be removed and 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. Then we will air drill the 6-1/4" hole to TD and run and cement the 4-1/2" casing.

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