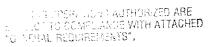
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

a. Type of Work	2005 00T 30 00T 13 25	5. Lease Number SF-07899	5
~ > \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Unit Reporting N	lumber
h T.mc -4 14/-1/	to an object to the second of	NM NM -78421A	-my NMNM 784
b. Type of Well GAS	Vicini, in a second second	6. If Indian, All. or 1	ribe
2. Operator		7. Unit Agreement	Name
ConocoPhillips		San Juan 31-	6 Unit
B. Address & Phone No. o	f Operator armington, NM 87499	8. Farm or Lease N	ame
10 201 1203, 10		9. Well Number	
(505) 326-9700		#41F	
l. Location of Well Unit N (SESW), 10	70' FSL, 1980' FWL	10. Field, Pool, Wild Basin Dakota/B	dcat lanco Mesaverde
Latitude 360 51.9		11. Sec., Twn, Rge, $\sqrt{}$ Sec. 29, T31N	Mer. (NMPM) I, R6W
Longitude 107° 29).2742'W	API# 30-039-30	
14. Distance in Miles from		12. County	13. State
48.5 Miles Bla	inco	Rio Arriba	NM
15. Distance from Propose	d Location to Nearest Property or Leas	e Line	
16. Acres in Lease		17. Acres Assigned 320.00 acre	
18. Distance from Propose	d Location to Nearest Well, Drlg, Comp	l, or Applied for on this L	ease
Proposed Depth 8079'		20. Rotary or Cable Rotary	e Tools
Elevations (DF, FT, GR, 6508 'GL	Etc.)	22. Approx. Date V	Vork will Start
23. Proposed Casing and C See Operations			
	anta faill atory Specialist		
PERMIT NO.	APPROVAL	. DATE	
APPROVED BY Chip Ha	maden TITLE Acting	AFM DAT	TE 11/3/06
Archaeological Report attached	·		

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.





DISTRICT 1 1625 N. French Dr., Hobbs, N.M. 88240

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 1220 South St. Francis Dr. Santa Fe. NM 67505 (1) 3 (1)

Submit to Appropriate District Office

DISTRICT III 1000 Ric Brazos Rd., Axtec, N.M. 87410

AM 10 25

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT (V 1220 S. St. Francis Dr., Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-039-	Pool Code Pool Name 72319/71599 Blanco Mesaverde / Basin Dakota			ia	
⁴ Property Code 31328		*Property Name SAN JUAN 31-6 UNIT			
OGRID No. 217817			Portar Name HILLIPS COMPANY	⁹ Elevation 6506'	

10 Surface Location

					2000	700011017			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Vest line	County
N	29	31-N	6-W		1070'	SOUTH	1980'	WEST	RIO ARRIBA
11 Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot ide	Feet from the	North/South line	Foot from the	East/Vest line	County
N	}	ļ	}						1
Dedicated Acre	*	· · · · · · · · · · · · · · · · · · ·	is Joint or	hdili	M Consolidation (ode	SOrder No.		
320 acr	es W2		ļ·		1				
			ł		į				

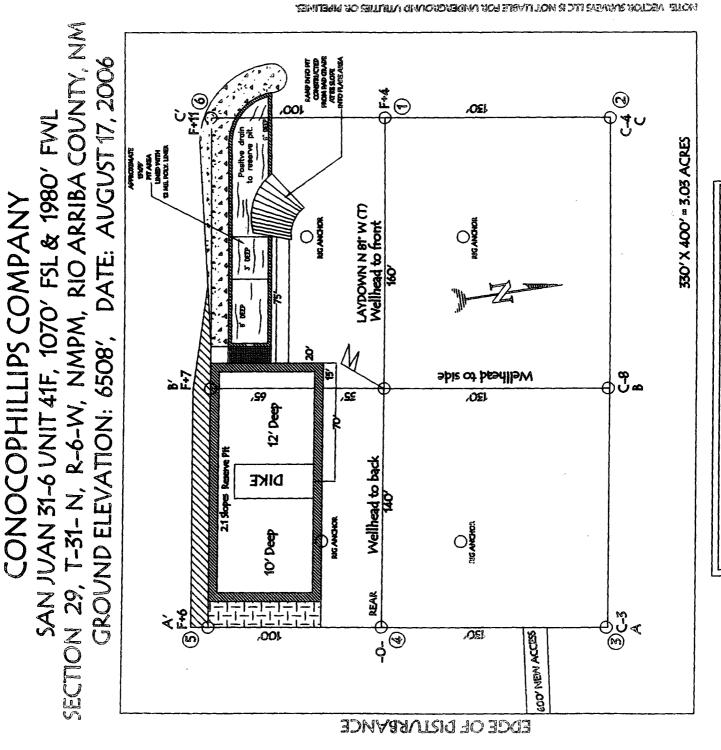
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

16	OR A NON-STAND	ARD UNIT HAS	BEEN APPROVED	BY THE DIVISION
				OPERATOR CERTIFICATION I hereby certify that the information contained herein to true and compilete to the best of my invested and holist, and that this requestantion either econe a working interest or unlessed scherol introducing the proposed bettern hate location or hat a right to drill the until at the location personnel to a overland with an owner of such a mineral or a surface interest, or to a voluntary pooling agreement or a companionly pooling order haveing ordered by the distriction.
SF-078995				Signature Amanda Sanchez/Regulatory Printed Name Analyst
.	LAT: 36'51.9727' N. LONG: 107'29.2742' W. NAD 1927 LAT: 36.886217' N. LONG: 107'488509' W. NAD 1983	,		SURVEYOR CERTIFICATION I hereby certify that the well inselies about on the plat was plotted from field nature of activit merceys made by me or under my approvision, and that the same is frue and correct to the best of my ballet. Date of Surmit.
™ 1980' M 89' 59'				Sgnate ME Sangue

Submit 3 Copies To Appropriate District Office	State of No	ew Mexico		Form C-103
District I	Energy, Minerals an	d Natural Resources		May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II			WELL API NO.	30097
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVA		5. Indicate Type of Lease	
District III 1000 Rio Brazos Rd., Aztec, NM 87410		t. Francis Dr.	STATE	FEE
District IV	Santa Fe,	NM 87505	6. State Oil & Gas Lease No Federal Lease	
1220 S. St. Francis Dr., Santa Fe, NM 8750	05 ES AND REPORTS ON WEI	110	7. Lease Name or Unit Agree	mant Nama
(DO NOT USE THIS FORM FOR PROPOSALS			7. Lease Name of Onit Agree	ement Name
DIFFERENT RESERVOIR. USE "APPLICATION PROPOSALS.)	ON FOR PERMIT" (FORM C-101) FO	OR SUCH	San Juan 3	I-6 Unit
1. Type of Well:		•	8. Well Number	
Oil Well Gas Well X	Other		9. OGRID Number	F
2. Name of Operator Cono	coPhillips Company		9. OGRID Number 2178	17_
3. Address of Operator	EET EADMINICTON NIM 9	7402	10. Pool name or Wildcat	/Pagin Dakuta
4. Well Location	EET, FARMINGTON, NM 8	7402	Blanco Mesaverde	Basin Dakota
Unit Letter N : 1 Section 29		South line and N Rng 6W	1980' feet from the	West line y Rio Arriba
3000000	Elevation (Show whether DR,		INIOTE IN COUNT	NO Amoa
Pit or Below-grade Tank Application	or Closure	6508'		
Pit type New Drill Depth to Groundw		nearest fresh water well	>1000' Distance from neares	st surface water >1000'
Pit Liner Thickness: 12	mil Below-Grade Tank	:: Volume <u>4400</u>	bbls; Construction Materia	
	Appropriate Box to Ind. ITENTION TO: PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPL	REMEDIA		
OTHER: New	Drill	X OTHER:		
13. Describe proposed or complete of starting any proposed work) or recompletion.				
ConocoPhillips proposes to construc interpretation of the Ecosphere's risk General Plan dated June 2005 on file	ranking criteria, the new dril at the NMOCD office. A por	ling pit and pre-set mud rtion of the vent/flare pit	pit will be lined pits as detailed will be designed to manage flu	d in ConocoPhillips' ids and that portion will
be lined as per the risk ranking criter	11a. ConocoPhillips anticipate	es closing these pits acco	rding to the November 1, 2004	Guidelines.
I hereby certify that the information about grade tank has been/will be constructed or closs				
SIGNATURE Junary	tavel .	ΓΙΤLE Reg	ulatory Specialist	DATE 9/13/2006
Type or print name Juanit For State Use Only	ta Farrell E-mail	address:		
	(),		Telephone No. AS INSPECTOR, DIST. (3)	505-326-9567 NOV 0 8 200 8

BININES OF CARLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (?) WORLING DAYS PRIOR TO CONSTRUCTION.

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



EEZETVE MT DIKE, TO DE 8' ABOVE DEEP SIDE (OVERTROW - 3' WIDE AND 4' ABOVE SHALLOW SIDE).

LATITUDE: 36'51.9727'N LONGITUDE: 107'29.2742'W NADZ7

CONOCOPHILLIPS COMPANY

SECTION 29, T-31- N, R-6-W, NMPM, RIO ARRIBA COUNTY, NM GROUND ELEVATION: 6508', DATE: AUGUST 17, 2006 SAN JUAN 31-6 UNIT 41F, 1070' FSL & 1980' FWL

SEV. A'-A 5520	5		
6490 ELEV, B'-B	5		
6520 6510		M	
5500			
6520 C-C	5		
6500 6490			

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

Comp. Strength 8 hrs 475 psi 24 hrs 1375 psi	Comp. Strength 3 hrs 100 psi 24 hrs 443 psi	Comp. Strength 24 hrs 1850 psi 48 hrs 3411 psi ent e Extender rride
Option 3 37 sx 10.6 bbls 59.3 cuft 1.61 ft ² /sx 14.5 ppg 7.41 gal/sx Type I-II Ready Mix + 20% Fly Ash	Option 3 255 sx 119.6 bbls 671.4 cuft 2.63 ft³/sx 11.7 ppg 15.92 gal/sx Class G Cement + 3% D079 Extendent + 0.20% D046 Antitoam + 1.0 lb/bbl CemNet	140 sx Com 31.9 bbls 24 hrs 178.9 cuft 48 hrs 178.9 cuft 48 hrs 13.5 ppg 5.255 gal/sx 50/50 Poz. Class G Cement 4.2% D020 Bentonite + 5.0 lb/sx D024 Gilsonite Extender + 2% S001 Caclcum Choride + 0.1% D046 Antiformer + 0.15% D065 Dispersant + 1.0 lb/bbl CemNet
Comp. Strength 6 hrs 250 psi 8 hrs 500 psi	Comp. Strength 1:47 hrs 50 psi 12 hrs 350 psi 24 hrs 450 psi 14	Comp. Strength 2:05 50 psi 4:06 500 psi 12 hrs 1250 psi 24hrs 1819 psi 24hrs 1819 psi 12 hrs 500 psi 13:29 1026 psi 24 hrs 2300 psi 14 hrs 2300 psi 15 hrs 2300 psi 15 hrs 2300 psi 16 hrs 2300 psi 16 hrs 2300 psi 17 hrs 2300 psi 18 Additive
Option 2 96 sx 20.7 bbis 116.3 cuft 1.21 ft ³ /sx 15.6 ppg 5.29 gaVsx Standard Cement + 3% Calcium Chloride + 0.25 fb/sx Flocele	258 sx 119.6 bbls 671.4 cuft 2.60 ft/sx 11.5 ppg 14.62 gal/sx Type III Ashgrove Cement + 30 lb/sx San Juan Poz + 3% Bentomite + 5.0 lb/sx Phenoseal	Option 2 135 sx Com 31.9 bbls 2:05 178.9 cuff 4:06 178.9 cuff 4:06 13.5 pgl/sx 12 hrs 13.5 pgl/sx 12 hrs 5.52 gal/sx 50/50 Poz. Standard Cement + 2% Bentonite + 6.0 lb/sx Phenoseal 107.0 bbls 9:32 600.5 cuff 12 hrs 13.1 ppg 24 hrs 6.55 gal/sx 50/50 Poz. Standard Cement + 3% Bentonite + 0.2% CFR-3 Friction Reducer + 0.8% Halad-9 Fluid Loss Additive + 3.5 lb/sx Phenoseal
Comp. Strength 6 hrs 250 psi 8 hrs 500 psi psi chloride	Comp. Strength 9 hrs 300 psi 48 hrs 525 psi	Comp. Strength 3:53 500 psi 8:22 1000 psi 24 hrs 3170 psi 48 hrs 5399 psi cement Ilophane Flakes Comp. Strength 7 hrs 500 psi 24 hrs 2100 psi 24 hrs 2100 psi cement Ilophane Flakes cons sant
SURFACE: Option 1 99 sx Comp. 20,7 bbls 6 hrs 22 116.3 cuft 8 hrs 56 1.17 ft³/sx 15.8 ppg 4.973 gal/sx Class G Cement + 3% S001 Calcium Chloride + 0.25 lb/sx D029 Cellophane Flakes	INTERMEDIATE LEAD:	NTERMEDIATE TAIL: Option 1
12.25 ° 9.625 ° 9.001 ° 32.3 ppf H.40	8.75 ° 7 ° 6.456 ° 20 ppf 9.55 ° 50 % ° 3754	6.25 " 4.5 • 4.052 • 10.5 ppf J-55 30 %
HOLE: CSG OD: CSG ID: WGT: RADE: EXCESS:	HOLE: CSG OD: CSG ID: WGT: GRADE: EXCESS: TAIL:	HOLE: CSG OD: CSG ID: WGT: GRADE: EXCESS:

13-10/26/06

	920 sx Comp. Strength 1926 bbls 10:56 500 psi 671.4 cuft 42 hrs 1012 psi 2.10 ft ² /sx 11.7 ppg 11.72 4 gal/sx 75% Type XI / 25% Class G Cement + 0.25 lb/sx Do29 Cellophane Flakes + 3% Do79 Extender + 0.20% DO46 Antitoam		### 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SURFACE:	NTERMEDIATE LEAD: Dotton 4	PRODUCTION:	If the 9 5/8" surface casing is present drilled (MOTE)
HOLE: 1225 ' CSG OD: 9.625 ' CSG ID: 9.001 ' WGT: 32.3 ppf GRADE: H-40 EXCESS: 200 % DEPTH: 120'	HOLE: 8.75 CSG OD: 7 CSG ID: 6.456 WGT: 20 ppf GRADE: J-55 EXCESS: 50 % TAIL: 750.8	HOLE: 6.25 °CSG OD: 4.5 °CSG ID: 4.05 °CSG I	DEPTH: 8079
			7

If the 9 5/8" surface casing is preset drilled (MOTE) will cement w/75 sx Type I-II cement w/20% Flyash mixed @ 1.61 cf/sx. Will bring cement to surface. Wait on cement for 24 hours for pre-set hole before pressure testing or drilling out. If H&P rig is used to drill the well will use 13 1/2' surface hole then will adjust cement to insure cement reaches surface.



PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 41F

AFE #: WAN.CNV.7206 Lease: AFE \$: Field Name: 31-6 Rig: State: NM County: RIO ARRIBA API #: Phone: (832)486-2332 Geoscientist: Glaser, Terry J Prod. Engineer: Piotrowicz, Greg M. Phone: +1 832-486-3486 Res. Engineer: Pena, David Fernando Phone: 832-486-2328 Proj. Field Lead: Fransen, Eric E. Phone: **Primary Objective (Zones):** Zone Zone Name R20002 MESAVERDE(R20002) R20076 **DAKOTA(R20076)** Datum Code: NAD 27 Location: Surface Straight Hole Longitude: -107.487904 | X: 0.00 Latitude: 36.866211 Y: 0.00 Section: 29 Range: 6W Footage X: 1980 FWL Footage Y: 1070 FSL Elevation: 6508 (FT) Township: 31N Tolerance: Location Type: Summer Only Start Date (Est.): Completion Date: Date In Operation: Formation Data: Assume KB = 6524Units = FT Formation Call & Depth SS Depletion BHP **BHT** Remarks Casing Points (Yes/No) (PSIG) (TVD in Ft) (Ft) NCMT 1349 5175 Possible water flows. MALC 3850 2674 **KRLD** 3650 2874 **FRLD** 3104 3420 Possible gas. **PCCF** 3070 3454 **LEWS** 3654 2870 CHRA 4629 1895 CLFH 5454 1070 Gas; possibly wet MENF 5494 1030 Gas. PTLK 780 5744 Gas. MNCS 5994 530 **GLLP** -520 7044 Gas. Possibly wet. **GRHN** -1250 Gas possible, highly fractured 7774 **GRRS** 7824 -1300 **PAGU** Gas. Highly Fractured. 7942 -1418 **CBBO** 7949 -1425 Gas **CBRL** 7994 -1470 TD 8079 -1555 Reference Wells: Reference Type Well Name Comments Intermediate San Juan 31-6 27 28-31N-6W, KB = 6493 Intermediate San Juan 31-6 46 32-31N-6W, KB = 6350

Printed on: 10/20/2006 2:21:33 PM

TOPSET FRUITLAND COAL Wells: (topset casing above coal to prepare for cavitation/DO/UR)

Drilling Mud Program:

Surface: spud mud

Intermediate: fresh water mud with bentonite and polymer as needed

Below Intermediate: air/mist/nitrogen 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 ioints

Turbolizers placed one per joint from the top of the Ojo Alamo to the top of the Kirtland Shale Below Intermediate: no centralizers used in air holes. In mud holes centralizers are spaced out appropriately

CASE & FRAC FRUITLAND COAL Wells: (casing set below coal to prepare for frac completion)

Drilling Mud Program:

Surface: spud mud

Production: fresh water mud with bentonite and polymer 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 Production: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 4th, 6th, 8th, 8th,

10th joints

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

MESA VERDE Wells:

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 joints

Turbolizers placed one per joint from the top of the Ojo Alamo to the top of the Kirtland Shale Below Intermediate: no centralizers used in air holes. In mud holes centralizers are spaced out appropriately

DAKOTA Wells:

Drilling Mud Program:

Surface: spud mud

Intermediate: fresh water mud with bentonite and polymer as needed

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

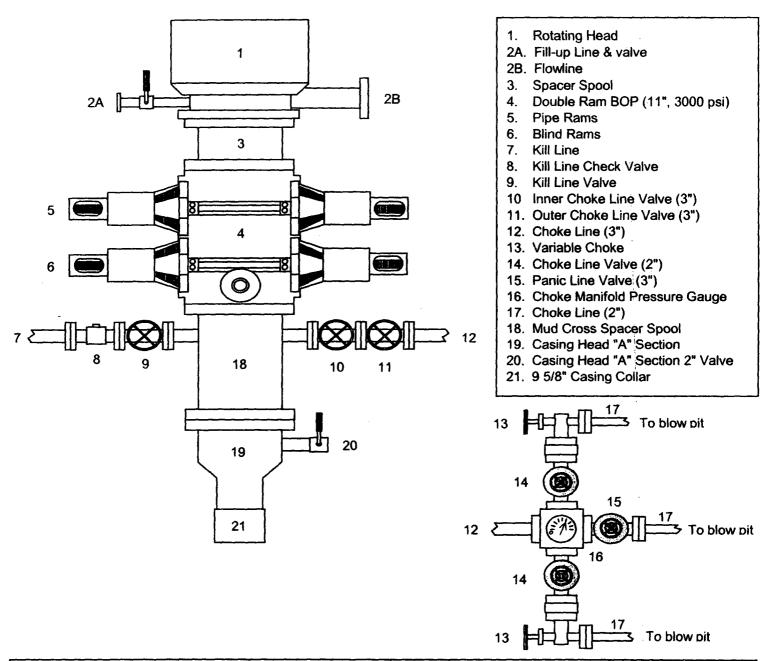
Centralizer Program:

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

Turbolizers placed one per joint from the top of the Ojo Alamo to the top of the Kirtland Shale Below Intermediate: no centralizers used in air holes. In mud holes centralizers are spaced out appropriately

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

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



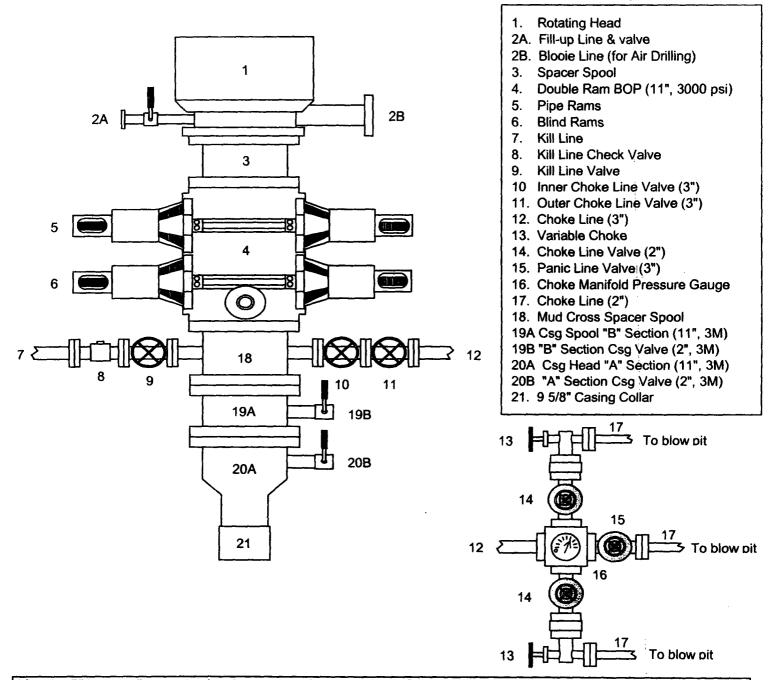
A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe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