### DIST. 3

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

4 -	Tues of Made	EPEN, OH PLUG BACK 2007 JAN 25 PM
1a.	Type of Work DRILL	5. Lease Number NMSF-012299 N/1N/MO1229
	74221	
		Unit Reporting Number 645 210 FAREAMTCA
1b.	Type of Well	6. If Indian, All. or Tribe
	GAS	
2.	Operator	7. Unit Agreement Name
	•	
	ConocoPhillips	
		San Juan 31-6 Unit
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	
		9. Well Number
	(505) 326-9700	#40G
<b>l</b> .	Location of Well	10. Field, Pool, Wildcat
	Unit B (NWNE), 560' FNL & 1565' FEL,	Basin DK/Blanco MV
		11. Sec. Two Ros Mer (NMDM)
	Latitude 36° .84731 N	11. Sec., Twn, Rge, Mer. (NMPM)  8 Sec. 1, T30N, R6W
	Longitude 107° 41254 W	·
	·	API# 30-039- 30/77
4.	Distance in Miles from Nearest Town	12. County 13. State
		Rio Arriba NM
15.	Distance from Proposed Location to Nearest Property or Lease	9 Line
	560'	47 A
16.	Acres in Lease	17. Acres Assigned to Well  DK- 272.81 - (N/2)
		MV - 226.61 - (E/2)
8.	Distance from Proposed Location to Nearest Well, Drlg, Comp	ol, or Applied for on this Lease
19.	Proposed Depth	20. Rotary or Cable Tools
	8022'	Rotary
1.	Flavortions (DE ST CD Fra.)	22 Anney Date Week will Start
. 1.	Elevations (DF, FT, GR, Etc.) 6464' GL	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program  See Operations Plan attached	
24.	Authorized by: Dhanda Tosus	1-25-07
	Rhonda Rogers (Regulatory Technician	n) Date
ERMI	T NO. APPROVA	L DATE
\ DDD/	OVED BY AMORROLO TITLE AT	M DATE 5/16/07
arrn(	The file	DATE SCENE
	· ANDTIE	VAZTEC OCD 24 HRS.
	eological Report attached	TO CASING & CEMENT

NMOCD

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, ficting or fraudulent statements or presentations as to any matter within its jurisdiction.

PRILLING OPERATIONS AUTHORIZED ARE AND APPEAR OF 3165.3

AND CD

RILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED 4/18/07 "GENERAL PEQUIREMENTS"

District I PO Box 1960, Hobbs, NM 88241-1980 Form C-10 State of New Mexico Revised February 21, 195 Instructions on bac Energy, Minerals & Natural Resources Department District II PO Crawer DD, Artesia, NM 88211-0719 Submit to Appropriate District Offic State Lease - 4 Copie Fee Lease - 3 Copie OIL CONSERVATION DIVISION PO Box 2088 200 25 PM 2: 30 Santa Fe, NM 87504 2088 District III 1000 Rio Brazos Rd., Aztec, NM 87410 AMENDED REPORT District IV PO Box 2088, Santa Fe, NM 87504-2088 RECEIVED RCVD MAY18'07 <sup>∵™</sup>Õ<u>I</u>L CONS. DIV. WELL LOCATION AND ACREAGE DEDICATION PL API Number Pool Name \*Pool Code 30-039-30117 72319 / 71599 BLANCO MESAVERDE / BASIN DAKOTA Property Code Well Number Property Name 40G 31328 SAN JUAN 31-6 UNIT Elevation OGRID No. "Operator Name 217817 CONOCOPHILLIPS COMPANY 6464 10 Surface Location Lot Ion Feet from the North/South line Feet from the RIO В 30N 560 NORTH 1565 EAST 1 6W ARRIBA <sup>11</sup> Bottom Hole Location If Different From Surface Ut or lot no. County Section Township Lot Joh Fort from the North/South line Feet from the East/Nest lim 18 Ondicated Acres Order No. is Joint or Infill Constituent ion Code 226.61 Acres - E/2 (MV) R2046A (DK 272.81 Acres - N/2 (DK) 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 OPERATOR CERTIFICATION 2640.00 200 1320.00 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief 1565 1-24-07 545.16 312 LOT 8 LOT 7 Ŋ LOT 6 Signature 70 Virgil E. Chavez Printed Name Projects & Operations Lead Title 8  $\boldsymbol{\omega}$ 07 Oate SURVEYOR CERTIFICATION 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 belief. 5280.00 Date of Survey: APRIL 5, 2005 10 Signature and Seal of Professional Surveyor SECH MEXICO 107 MEXICO SEM 2640.00 REGISTORY 15269 555.06

5

1320.00

2640,00

15269

A OFESSION

Certificate Number

#### Submit 3 Copies To Appropriate District State of New Mexico Form C-103 May 27, 2004 District I Energy, Minerals and Natural Resources 1625 N. French Dr., Hobbs, NM 88240 WELL API NO. District II 30-039-OIL CONSERVATION DIVISION 1301 W. Grand Ave., Artesia, NM 88210 Indicate Type of Lease X District III STATE FEE 1220 South St. Francis Dr. 1000 Rio Brazos Rd., Aztec, NM 87410 6. State Oil & Gas Lease No. Santa Fe, NM 87505 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 NM-012299 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 San Juan 31-6 Unit PROPOSALS.) Type of Well: 8. Well Number Other Oil Well Gas Well X #40G Name of Operator OGRID Number ConocoPhillips 217817 3. Address of Operator Pool name or Wildcat 3401 E. 30TH STREET, FARMINGTON, NM 87402 Basin DK/Blanco MV Well Location Unit Letter 1565 feet from the line <u>560'</u> feet from the line and 30N **NMPM** Section **Township** Rng County Rio Arriba 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6464 or Closure Pit or Below-grade Tank Application 3200 €1000 New Drill Depth to Groundwater >100' Distance from nearest fresh water well >1000' Distance from nearest surface water Pit Liner Thickness: Below-Grade Tank: Construction Material 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data **NOTICE OF INTENTION TO:** SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK ALTERING CASING CHANGE PLANS **TEMPORARILY ABANDON** COMMENCE DRILLING OPNS. P AND A **PULL OR ALTER CASING** MULTIPLE COMPL CASING/CEMENT JOB OTHER: New Drill OTHER: 13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion. New Drill, Lined: ConocoPhillips proposes to construct a new drilling pit and an associated vent/flare pit. Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit will be a lined pit as detailed in Burlington's Revised Drilling / Workover Pit Construction / Operation Procedures dated November 11, 2004 on file at the NMOCD office. A portion of the vent/flare pit will be designed to manage fluids and that portion will be lined as per the risk ranking criteria. Burlington Resources anticipates closing these pits according to the Drilling / Workover Pit Closure Procedure dated August 2, 2004 on file at the NMOCD office. I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or belowgrade tank has been/will be constructed or closed according to NMOCD guidelines \_\_\_\_, a general permit X or an (attached) alternative OCD-approved plan $\Box$

TITLE

E-mail address:

Rhonda Rogers

Regulatory Technician

rogerrs@conocophillips.com

BEPUTY OIL & GAS INSPECTOR, DIST. 33

SIGNATURE

Type or print name
For State Use Only

APPPROVED BY

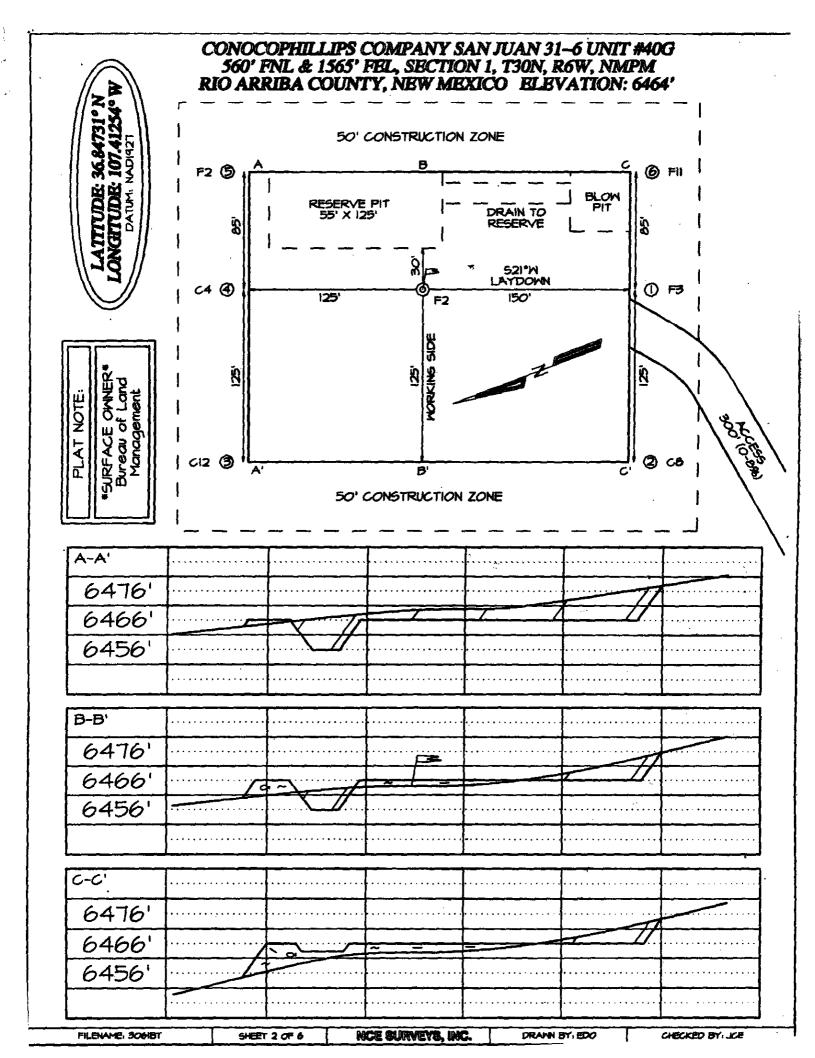
Conditions of Approval (if any):

DATE 1-25-07

505-599-4018

DATE MAY 1 8 2007

Telephone No.





# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

#### **SAN JUAN 31-6 40G**

Lease:				AFE #: WAN.CNV.6213					AFE \$:		
Field Name: 31-6			Rig: Bearcat Rig 4				State: NM	County: RIO ARRIBA	API #:		
Geoscientist: Riley, Brook			Phone	: +1 505-324-	+1 505-324-6108   Prod. Engineer:				Phone: 486-2334		
			Phone:	: 505-326-982	26	Proj. F	ield Lead: Fra	nsen, Eric E.	Phone:		
Primary Objectiv	PARTICIPATION OF THE PER	THE RESERVE THE PROPERTY OF THE PARTY OF THE	10.00								
Zone	Zone Na	me			7	<u> </u>					
R20002	MESAVE	RDE(R20002)			7						
R20076	DAKOTA			<del></del>	7						
	-	·	<b>-</b>		_						
Locations Surface	Barrie S	() (Defum)Co	de: NA	D227.			ala se <b>v</b> ension	energy from the	- Straight Hole		
Latitude: 36.84731	lO Lor	ngitude: -107.41	2540	X: 0.00		Y: 0.	00	Section: 01	Range: 006W		
Footage X: 1565 F	EL Foo	otage Y: 560 FN	L	Elevation: 64	64	(FT)	Township: 030	N			
Tolerance:	<del></del>				-						
Location Type: Sur	mmer Onl	у	Start D	Date (Est.):	-	Con	Completion Date: Date In Operation:				
Formation Data:	Assume k	(B = 6482	Units =	F							
Formation Call & Casing Points	<b>'4</b>	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT Remarks			;		
Surface Casing		1000	6280		<u> </u>		13-1/2 hole. ! to surface.	9 5/8" 32.3 ppf, H-40, S	TC casing. Circulate cement		
NCMT		1282	5200								
MACC		2512	3970				Possible water flows.				
KRLD		2682	3800								
FRLD		3082	3400				Possible gas.				
PCCF		3292	3190								
LEWS		3392	3090								
Intermediate Casing	3	3 <del>49</del> 2	2990				8 3/4" Hole. 7 surface.	", 20 ppf, 3-55, STC Ca	sing. Circulate cement to		
CHRA		4557	1925				32330				
MENF		5 <del>4</del> 32	1050				Gas.				
PTLK		5667	815				Gas.		l		
MNCS		5917	565								
GLLP		6957	-475				Gas. Possibly	wet.	'		
GRHN		76 <b>7</b> 2	-1190				Gas possible, I	nighly fractured			
CBBO		7852	-1370				Gas				
TOTAL DEPTH DK		8022	-1540	=					9.5". Optional Liner: 5.5",		
Total Depth		8022	-1540				13.J#, J*33 LI	C - left uncemented.	i		
Keference Wells						7		All Secretarians			
Reference Type	Well Nam	6		Comments							

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# PROJECT PROPOSAL - New Drill / Sidetrack

**SAN JUAN 31-6 40G** 

Logging Prog	ram:		31.0	**************************************		
		if show GR/ILD				
TD Logs:	Triple Co	ombo 🔲 Dipmeter	☐ RFT ☐ Sc	nic VSP TDT		
Additional Infor	mation:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks	

Comments: Location/Tops/Logging - DKNM030N006W01NE1 MVNM030N006W01NE1

Zones - DKNM030N006W01NE1 MVNM030N006W01NE1

General/Work Description - 12/15/06 C. Head- RAM would like to run openhole logs in order to better characterize the reservoir. This will also require that the Dakota be mud drilled, therefore increasing drilling costs.

This well is the replacement for the 31-6 #40M MV/DK which was converted to a Mancos completion after high pressure was encountered while drilling. The 40M was renamed the 31-6 54.

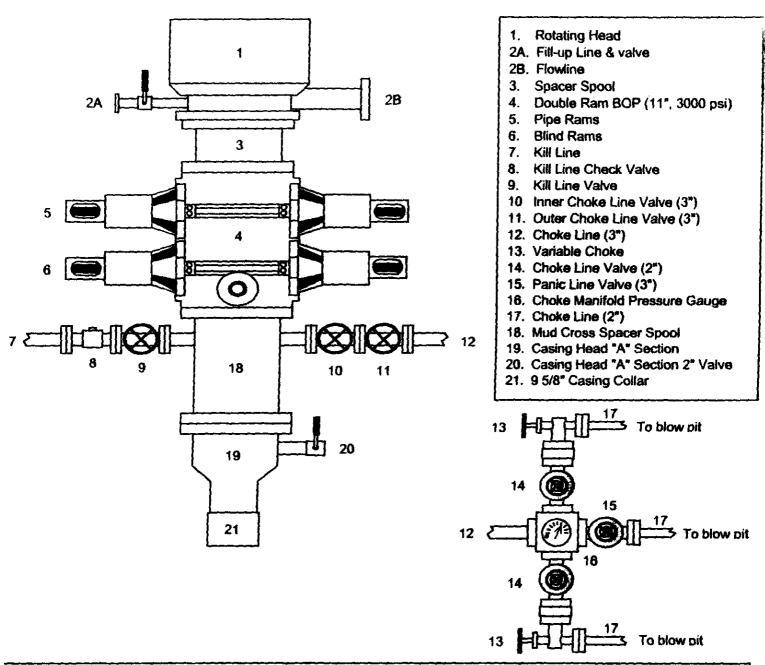
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DEPTH:	HOLE CSG OD WGT: GRADE EXCESS:	HOLE CSG OD CSG ID WGT GRADE EXCESS	CSG OD CSG ID: WGT. GRADE: EXCESS. DEPTH:
8022	6.25 ·	8.75 7 6.456 20 ppr 1-55 50 %	12.25 ° 9.625 ° 9.001 ° 32.3 ppf 14.40 ° 125 %
17.78 cots	INTERMEDIATE Optit  50/5 50/5 + 0.3 + 39 + 1.9 + 0.1 + 0.1 + 0.1 - PRODUCTION: Opti	INTERMEDIATE LEAD: Option 1 229 sx 1112 bbls 624.1 cuft 2.72 ft <sup>3</sup> /sx 11.7 ppg 15.74 gal/sx Class G Cement + 3% 0079 Extender + 0.20% D046 Antifoam + 10 lb/sx Phenoseal	SURFACE:  Option 1  79 sx  Comp.  79 sx  16.4 bbls 6 hrs 2 91.9 cuft 8 hrs 5  1.17 ft/sx  1.58 ppg 4.973 gal/sx  Class G Cement + 3% S001 Calcium Chloride + 0.25 lb/sx D029 Cellophane Flakes
4 hrs 2100 4 hrs 2100 e Flakes ttender	Comp. Strey 1:23 500 1:23 1000 14 hrs 3170 18 hrs 5399 18 Flakes 19 Comp. Strey 1 Comp. Strey 1:53 500	Comp. Strength 9 hrs 300 psi 48 hrs 525 psi	Comp. Strength 6 hrs 250 psi 8 hrs 500 psi psi psi
627.9 cuft 12 hrs 627.9 cuft 12 hrs 1.45 ft <sup>3</sup> /sx 13:29 13.1 ppg 24 hrs 6.55 gal/sx 50/50 Poz: Standard Cement + 3% Bentonte + 0.2% CFR-3 Friction Reducer + 0.1% HR-5 Retarder + 0.6% Halad-9 Fluid Loss Additive + 3.5 lb/sx Phenoseal	Option 2 126 sx 29.8 bbts 167.1 cuft 1.33 ft <sup>3</sup> /sx 13.5 ppg 5.52 gal/sx 50/50 Poz: Standard Cement + 2% Bentonite + 6 0 lb/sx Phenoseal + 6 0 lb/sx Phenoseal	Option 2 240 sx 111.2 bbts 624.1 curt 2.60 ft <sup>3</sup> /sx 11.5 ppg 14.62 gal/sx Type III Ashgrove Cement + 30 lb/sx San Juan Poz + 3% Bentonite + 5.0 lb/sx Phenoseal	Option 2 76 sx 16.4 bbls 91.9 cuft 1.21 ft <sup>3</sup> /sx 15.6 ppg 5.29 gal/sx Standard Cement + 3% Calcium Chloride + 0.25 lb/sx Flocale
er diffive	Comp. Stren 05 50 06 500 P. hrs 1250 hrs 1819	Comp. Strength 1:47 hrs 50 psi 12 hrs 350 psi 24 hrs 450 psi	Comp. Strength 6 hrs 250 psi 8 hrs 500 psi
	Option 3  131 sx 29.8 bbls 24 hrs 167.1 cuft 1.28 ft <sup>3</sup> /sx 13.5 ppg 5.255 gal/sx 50/50 Poz: Class G Cement + 2% D020 Bentonite + 5.0 lb/sx D024 Gilsonite Extender + 2% S001 Calcium Chloride + 0.1% D046 Antifoamer + 0.15% D056 Dispersant + 1.0 lb/bbl CemNet	Option 3 237 s.x 111.2 bbls 624.1 cuft 2.63 ft <sup>3</sup> /sx 11.7 ppg 15.92 gal/sx Class G Cement + 3% D079 Extender + 0.20% D046 Antifoam + 1.0 lb/bbl CemNet	Option 3 37 sx 10.6 bbis 59.3 cuft 1.61 ft <sup>3</sup> /sx 14.5 ppg 7.41 gal/sx Type 1-11 Ready Mix + 20% Fly Ash
0	Comp. Strength 24 hrs 1850 psi 48 hrs 3411 psi ment ilis Extender iloride er ant	Comp. Strength 3 hrs 100 psi 24 hrs 443 psi	Comp Strength 8 hrs 475 psi 24 hrs 1375 psi

DEPTH: 8022	HOLE: 6.25 * CSG OD: 4.5 * CSG ID: 4.052 * WGT: 10.5/11.9 ppf GRADE: J-55 EXCESS: 30 %			DEPTH: 3492	, , , , , , , , , , , , , , , , , , ,	HOLE 8.75 *	DEPTH: 120	HOLE: 12.25 °CSG OD: 9625 °CSG ID: 9.001 °CSG ID: 9
	PRODUCTION:	If the 9 5/6" surface casing is preset drilled (MOTE) will cement w/75 sx Type I-II cement w/20% Flyash mixed @ 1.61 c/fsx. 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.	INTERMEDIATE TAIL:		x 75% 11  t 75% + 0.22  seai + 0.22  + 0.22	NTERMEDIATE LEAD: Option 4 Option 5 217 sx Comp. Strength 11.2 bbls 1.47 50 psi 624.1 cuft 12.88 ft <sup>2</sup> sx 24 hrs 450 psi 2 10 ft <sup>2</sup> sx 2 10 ft <sup>2</sup> sx		SURFACE:

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

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

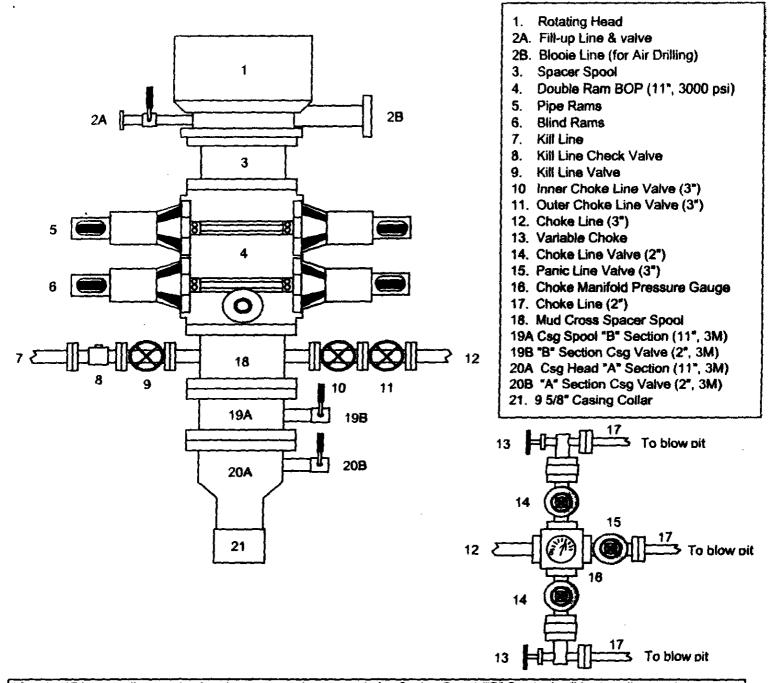


A 12-1/4" hole will be drilled to approximately \( \gamma\_D'\) and the 9-5/8" surface casing will be run and cemented. The Casing Head 'A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. It test plug will be set in the wellhead and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

addition to the equipment in the above diagram the following equipment will comprise the BOP system: Upper Kelly cock Valve with handle 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