DIST.3

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

-	APPLICATION FOR PERMIT TO DRILL	<u>0 (3 </u>
a. !	Type of Work DRILL 070 FARMING CO	5. Lease Number NM-03563 CA Unit Reporting Number
9.	Type of Well GAS	NMNM-75HI-OK NMI 6. If Indian, All. or Tribe
•	Operator	7. Unit Agreement Name
,	ConocoPhillips	
• ;	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	Gage
1	(505) 326-9700	9. Well Number #3F
١.	Location of Well	10. Field, Pool, Wildcat
	Unit E (SWNW), 1727' FNL & 1035' FWL,	Basin DK/Blanco MV
		11. Sec., Twn, Rge, Mer. (NMPI
1	Latitude 360 47.9864041 N	든 Sec. 20, T30N, R10
	Longitude 107° 54.7364196 W	API# 30-045-34105
14.	Distance in Miles from Nearest Town	12. County 13. St
	7 miles/Aztec	San Juan NM
15.	Distance from Proposed Location to Nearest Property or 1035'	Lease Line
16.	Acres in Lease	17. Acres Assigned to Well DK & MV - 316.18 - (N/2
18.	Distance from Proposed Location to Nearest Well, Drlg, C	Compl, or Applied for on this Lease
19.	Proposed Depth	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will St
	6289' GL	
23.	Proposed Casing and Cementing Program	
	See Operations Plan attached (NOTI	FY AZTEC OCD 24 APS ME TO WITNESS LEGICEMENT 12-7-86
24.		
	Rhonda Rogers (Regulatory Techni	.Clan) Date
PERM	IIT NO. APPR	OVAL DATE
4 DDD	OVED BY AMERICAN TITLE A	T = M DATE $3/6$

8/8

Archaeological Report attached

Threatened and Endangered Species Report attached

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.

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

3/8/07

MMOCD P

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

District 1

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505 DEC 8 AM 8 03

Fee Lease - 3 Copies
State Lease - 7 Copies
Appropriate District Office

Submit to Appropriate District Office Revised June 10, 2003

Form C-102

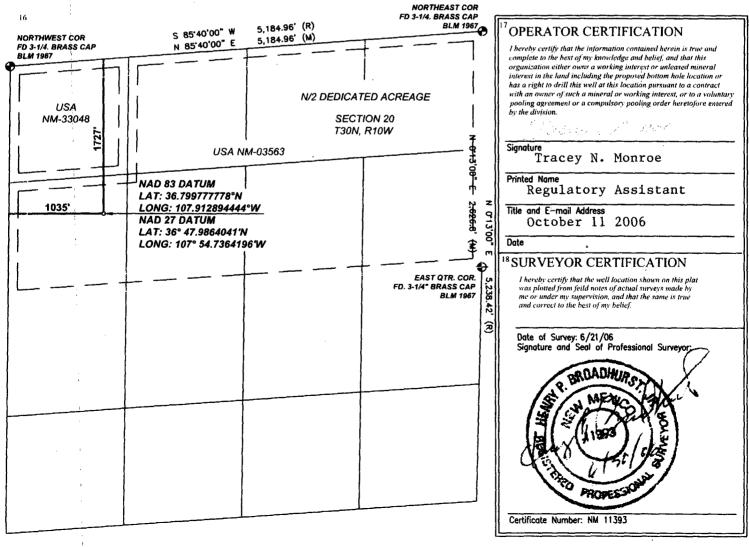
RECEIVED.

☐ AMMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 /]:	Pool Code		³ Pool Name							
30-045-	3410	25	7159	9/7231	9	DAKOTA / MESAVERDE					
						ty Name		6 Well Number			
31551					G#	AGE		3F			
7 OGRID No.				8 Operate	or Name		⁹ Elevation				
217817_				C	ONOCOPHIL	LIPS COMPANY	6,288.5'				
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		
E	20	30-N	10-W		1727	NORTH	1035	WEST	NAUL NAS		
1			11 E	Bottom H	ole Location	If Different Fro	m Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
E				}		•		R	VD MAR7'07		
12 Dedicated Acres		or Intill	Consolidatio	n Code	Order No.			unu.	L CONS. DIV.		
316.18 ^N							DIST. 3				

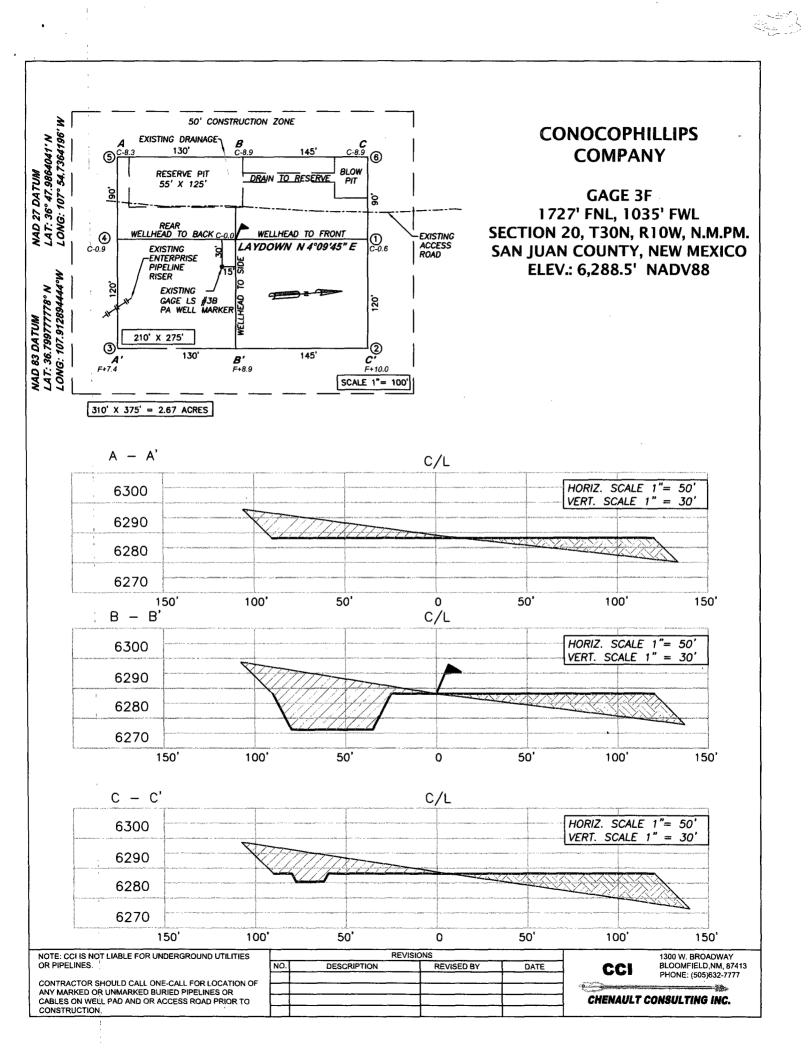
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Submit 3 Copies To Appropriate District Office	State of New			Form C-103
District I 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and N	atural Resources	WELL API NO.	May 27, 2004
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION	ON DIVISION	Indicate Type of Lease	30-045- 34103
District III	1220 South St. F		STATE	FEE
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM	87505	6. State Oil & Gas Lease No.	
1220 S. St. Francis Dr., Santa Fe, NM 87			NM-03	
SUNDRY NOT (DO NOT USE THIS FORM FOR PROPOSA	ICES AND REPORTS ON WELLS LS TO DRILL OR TO DEEPEN OR PLUG I		7. Lease Name or Unit Agreement N	ame
DIFFERENT RESERVOIR. USE "APPLICA" PROPOSALS.)	TION FOR PERMIT" (FORM C-101) FOR S	UCH	GAGE	#3F
1. Type of Well: Oil Well Gas Well	(Other		8. Well Number	
2. Name of Operator	Concephilling		9. OGRID Number 2178	17
3. Address of Operator	ConocoPhillips		10. Pool name or Wildcat	17
4. Well Location	TREET, FARMINGTON, NM 8740	2	Basin DK/B	lanco MV
Unit Letter <u>E</u> :_	1727' feet from the Nor		1035' feet from the	Westline
Section 20	Township 30N 1. Elevation (Show whether DR, RK	Rng 10W B, RT, GR, etc.)	NMPM NMPM	County San Juan
Pit or Below-grade Tank Application	or Closure	6289'		>200
Pit type New Drill Depth to Groun		st fresh water well	>1000 Distance from nearest surface	
Pit Liner Thickness: 12	mil Below-Grade Tank:	Volume	bbls; Construction Material	
		Indicate Nature	of Notice, Report or Other D	
	INTENTION TO:	DEMEDIA	SUBSEQUENT REPO	
PERFORM REMEDIAL WORK TEMPORARILY ABANDON	PLUG AND ABANDON CHANGE PLANS	REMEDIA	CE DRILLING OPNS.	ALTERING CASING P AND A
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/C	CEMENT JOB	
OTHER: N	ew Drill	X OTHER:		
			give pertinent dates, including estimat ich wellbore diagram of proposed com	
or recompletion.	irk). SEE ROLE 1103. For Muliiph	e Completions. Atta	ich wendore diagram or proposed com	piction
1				
•				
New Drill, Lined:				•
CanacaPhillins proposes to const	nuct a new drilling nit and an associ	ated vent/flare nit F	Based on Burlington's interpretation of	the Facenhere's rick ranking
	.	-	/ Workover Pit Construction / Operation	
			manage fluids and that portion will be lorkover Pit Closure Procedure dated A	
NMOCD office.	interpates closing these pits according	ig to the Drining / w	VOIKOVEL FIL CIOSULE FIOCESTULE dated A	rugust 2, 2004 on me at the
1 1				
1				
I hereby certify that the information	above is true and complete to the be	st of my knowledge	and belief. I further certify that any pit or	below-
grade tank has been/will be constructed or	closed according to NMOCD guidelines	, a general permit X	or an (attached) alternative OCD-approved	i plan
SIGNATURE	La Joeus TIT	LE	Regulatory Technician	DATE <u>12-7-0</u> 6
	onda Rogers E-mail add	dress: rogerr	s@conocophillips.com Teleph	one No. 505-599-4018
For State Use Only	\mathcal{A}	SEPUTT OF	L & GAS INSPECTOR, DIST. 🐠	MAR 0 8 2007
APPPROVED BY Conditions of Approval (if any):	TIT	LE		DATE TAR O O ZUUI

APPPROVED BY

Conditions of Approval (if any):





PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

GAGE 3F

										+
Lease:	AFE #: WAN.CNV.6141				A	FE \$:				
Field Name: NEW	tec Rig 301			State:	NM	County: SAN JUAN	А	PI #:		
Geoscientist: Bra	832-486-259	92	Prod. I	Engineer:	Piotr	owicz, Greg M.	Phon	e: +1 832-486-3486		
Res. Engineer: Ha	arrington, Tim R.	832-486-220)7		ield Lead:		sen, Eric E.	Phon		
Primary Objecti		<u> </u>								
Zone	Zone Name			1		Charles Harrison				
R20002	MESAVERDE(R2000	2)		7						i
R20076	DAKOTA(R20076)	- 		7						
										
Location: Surfac	e Datum	Code: NA	D 27							Straight Hole
Latitude: 36.7997		——————————————————————————————————————	X:		Y:			Section: 20		Range: 10W
Footage X: 1035			Elevation: 62			Township:	30N	<u> </u>	l.	
Tolerance:		L			. , ,					
Location Type: Ye	ear Round	Start D	ate (Est.):		Con	npletion Da	ite:	Date	In Opera	ation:
Formation Data:	Assume KB = 6305	Units =	FT							
Formation Call &	Dep	th SS	Depletion	BHP		Ţ				
Casing Points	(TVD i		(Yes/No)	(PSIG)	BHT			Rema		
SURFACE CSG	200	6185				12-1/4 ho		5/8" 32.3 ppf, H-4	0, STC ca	sing. Circulate cement
MALC	152	20 4785				Possible v		flows.		I
KRLD	160	9 4696								
FRLD	253	3766				Possible g	gas.			
PCCF	283	88 3467								1
LEWS	305	59 3246								
HURF	355	8 2747								
UCLFH	396	0 2345								
CLFH	435	58 1947				Gas; poss	sibły v	vet		
MENF	461	l8 1687				Gas.				
Intermediate Casir	ng 471	1587						casing (bottom: 13		#/ft, J-55, LTC; cement to surface.
PTLK	513	36 1169				Gas.	-1. /	20#/16, 3-33, 310),	Circulate	centent to surface.
MNCS	534		ñ							
UPPER GLLP	633		ñ							
GLLP :	646		$\bar{\Box}$			Gas. Pos	sibly	wet.		
GRHN	708		$\overline{\Box}$			Gas poss	ible, t	nighly fractured		
GRRS	713		ñ			·	•	• .		
TWLS	719					Gas				
PAGU	727		ñ			Gas. Hig	hly Fr	actured.		
CBRO	733					_	•			
TD .	745									
TOTAL DEPTH DK						a minimu	ım of	-1/2", 11.6 ppf, N- 100' inside the prev le TDT with GR to s	vious casi	asing. Circulate cement ng string. No open hole
Reference Well	S:					-	48.			
Reference Type	Well Name		Comments	S	<u>, 100-1000 (1000)</u>	<u> </u>	es) -9*10*9	and the state of t		
Intermediate	Gage COM 1E		20-30N-10V	V-SE, KB	= 6238		-			
Intermediate	Gage 3	<u> </u>	20-30N-10V	V-NE, KB	= 6396					

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PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

GAGE 3F

Scumacher 10A	18-3	0N-10W-SE,	, KB = 6431						
		•							
				<u>assario de la companya dela companya dela companya dela companya de la companya </u>					
TD Logs: Triple Combo Dipmeter RFT Sonic VSP TDT 2 Other									
CBL/GR									
rmation:									
Stage	irom (Et)	To /Et)	Tool Type/Name	Remarks					
	Iram: ogs: Log only if show Triple Combo C CBL/GR rmation:	ogs: Log only if show GR/ILD CTriple Combo Dipmeter CBL/GR	ogs: Log only if show GR/ILD Triple Com Triple Combo Dipmeter RFT So CBL/GR rmation:	ogs: Log only if show GR/ILD Triple Combo Triple Combo Dipmeter RFT Sonic VSP TDT COth CBL/GR rmation:					

Comments: Location/Tops/Logging - CLFH might be wet, TD is 265' below TWLS - the ENCN looks dry

Zones - This well will replace the Gage 3B which has been cancelled.

General/Work Description - NO LEWIS

The cost estimate to facilitate this well includes costs to tie into gathering system (\$50,000).

C. HARRADEN/ December 11, 2006 CEN

CONOCOPHILLIPS/ Gage #3F APD

STIPULATION/CONDITION OF APPROVAL

This well is located within a 'vulnerable area'. In order to protect the integrity of the fresh water alluvium aquifer, a minimum surface csg. depth of 200' is stipulated as a condition of approval for this APD.

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			-
Strength 5 psi 75 psi	Strength O psi	Comp. Strength hrs 1850 psi hrs 3411 psi ander	
Comp. Strength 8 hrs 475 psi 24 hrs 1375 psi	Comp. Strength 3 hrs 100 psi 24 hrs 443 psi	Comp. Stret 24 hrs 1850 48 hrs 3411 if Extender 3e	
8 52 - 8 22		24 48 A Chuent conite Exi Chloride mer rsant	
Option 3 37 sx 37 sx 10.6 bbls 59.3 cuft 1.61 ft²/sx 14.5 pgg 7.41 gal/sx 7.7pe I-II Ready Mix + 20% Fly Ash	Option 3 211 sx 987. bbls 554.2 cuft 2.63 ft²/sx 11.7 ppg 15.92 gal/sx Class G Cement + 3% D079 Extender + 0.20% D046 Antifoam + 1.0 lb/bbl CemNet	Option 3 117 sx Com 26.7 bbls 24 hrs 1.28 ft²/sx 1.28 ft²/sx 13.5 ppg 5.255 gal/sx 60/50 Poz: Class G Cement 4.2% D020 Bentonite 4.5% D020 Bentonite 4.5% D020 Bentonite 4.0% D024 Gilsonite Extender 4.0% D046 Antifoamer 4.0.1% D046 Antifoamer 4.0.1% D046 ComNet	
Option 3 10 10 59 11.6 7 4 7 7 7 2 7 7 8 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	O Opti Class + + 0.3,9	0 0 50 4 + + + + + + + + + + + + + + + + + +	
Comp. Strength trs 250 psi trs 500 psi	Comp. Strength 7 hrs 50 psi trs 350 psi hrs 450 psi	Comp. Strength 55 psi hrs 1250 psi hrs 1819 psi hrs 500 psi hrs 500 psi hrs 2300 ps	
Comp 6 hrs 8 hrs	Comp. St 1:47 hrs 50 12 hrs 35, 24 hrs 45,		Additive
Option 2 76 sx 16.4 bbls 91.9 cuft 1.21 ft³sx 15.6 ppg 5.29 gal/sx Standard Cement + 3% Calcium Chloride + 0.25 fb/sx Flocele	Option 2 213 sx 98.7 bbls 554.2 cuft 2.60 ff²/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	eme	+ 0.1% HR-5 Retarder + 0.8% Halad-9 Fluid Loss Additive + 3.5 Ib/sx Phenoseal
Comp. Strength 6 hrs 250 psi 8 hrs 500 psi psi inoride	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 ophane Flakes nite Extender er Comp. Strength 7 hrs 500 psi 24 hrs 2100 psi	nite Extender SSS sant ier
Option 1 79 sx Comp. 16.4 bbls 6 hrs 2: 91.9 cuft 8 hrs 5: 1.17 ft²/sx 15.8 ppg 4.973 gal/sx Class G Cement + 3% SOO1 Calcium Chloride + 0.25 lb/sx D029 Cellophane Flakes	Option 1 204 sx 98.7 bbis 554.2 cuft 2.72 ff/sx 11.7 pg 15.74 gal/sx Class G Cement + 9% D079 Extender + 0.20% D046 Antifoam + 10 lb/sx Phenoseal	Option 1	+ 1.0 lb/sx D024 Gilsonite Extender + 0.25% D167 Fluid Loss + 0.25% D065 Dispersant + 0.1% D800 Retarder + 0.1% D046 Antifoamer + 3.5 lb/sx Phenoseal
12.26 ° 9.625 ° 9.001 ° 32.3 ppf H-40 125 %	8.75 - 7 - 7 - 8.456 - 20 ppf J-55 - 50 % - 621	6.25 * 4.5 *	
HOLE: CSG DE: CSG ID: WGT: GRADE: EXCESS: DEPTH:	HOLE: CSG 0D: CSG ID: WGT: GRADE: EXCESS: TAIL:	HOLE: CSG OD: CSG ID: WGT: GRADE: EXCESS:	

M = 11/15/06

.

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, 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

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, &

10" 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, 8th, 8

10" 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:

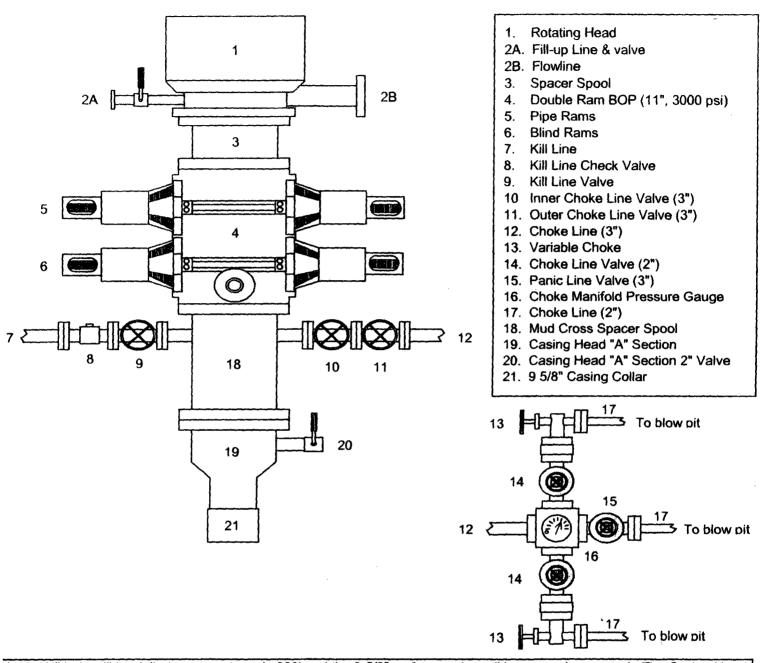
Surface: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 3rd, & 4th joints Intermediate: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 4th, 6th, 8th, 8th, 8

0th 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



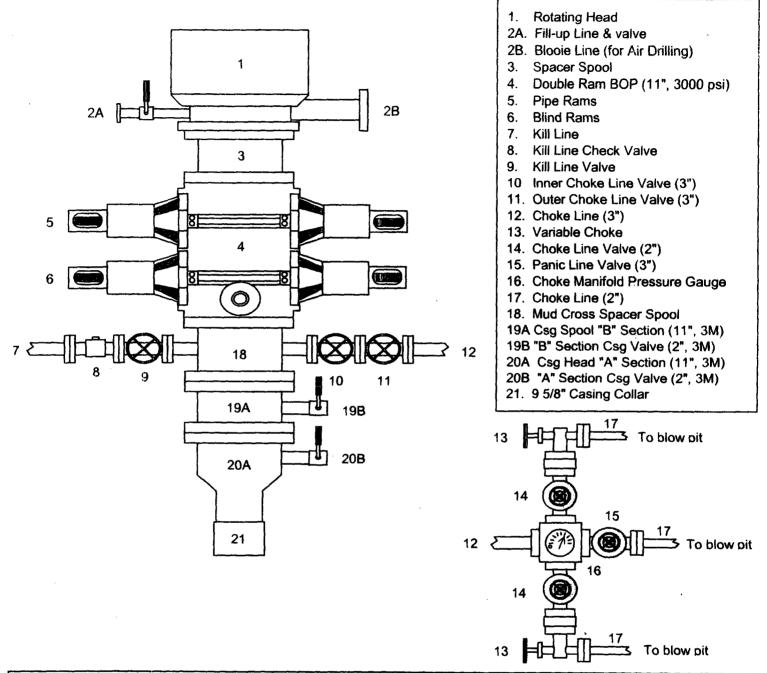
A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe 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" nole will be drilled to intermediate casing point and 7" intermediate casing will be run and cemented.

n 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