UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

a.	Type of Work 2000 NOU 29 F7 4 5	5. Lease Number	
	DRILL	SF-078046	
	RECENTED 670 FARMMOTOMAL	Unit Reporting N	umber
	Type of Well	6. If Indian, All. or T	ribe
	Operator	7. Unit Agreement I	Name
	ConocoPhillips		
	Address & Phone No. of Operator	8. Farm or Lease N	ame
	PO Box 4289, Farmington, NM 87499	Hughes B 9. Well Number	
	(505) 326-9700	#2	3
	Location of Well	10. Field, Pool, Wild	
	Surf Unit C (NENW), 739' FNL & 2155' FWL,	Basin Fruit	land Coal
	Latitude 36°42' 48.35667" N	11. Sec., Twn, Rge,	Mer. (NMPM)
	Datitude 50	C Sec. 21 T29N, R	08W, NMPM
	Longitude 107 ⁰ 41' 1.18395"W		
		API# 30-0	45-34087
l.	Distance in Miles from Nearest Town	12. County	13. State
	10 miles to Blanco	San Juan	NM
	Distance from Proposed Location to Nearest Property or Lea 739'	se Line	
5 .	Acres in Lease	17. Acres Assigned 320 acres W/	
3.	Distance from Proposed Location to Nearest Well, Drlg, Com	pl, or Applied for on this L	ease
9.	Proposed Depth 3090'	20. Rotary or Cable Rotary	Tools
1.	Elevations (DF, FT, GR, Etc.) 6459' GL	22. Approx. Date V	ork will Start
3.	Proposed Casing and Cementing Program See Operations Plan attached		
4.	Authorized by: Musey V. Memore	1//	124/06
	Regulatory Technician	Da	te
			
ERN	APPROVA	L DATE	
		2-31	1/.

Archaeological Report submitted seperately Environmental Assessment is 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.

This is not an HPA well

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This action has been a seek to be a seek

HOLD C104 FOR

OIL CONS. DIV.

District I

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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

Fee Lease - 3 Copies State Lease - 7 Copies

State Lease - / Copies
Submit to Appropriate District Office

Revised June 10, 2003

Form C-102

2006 NOV 29 PM 4 34

☐ AMMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-04		Pool Code 1629		- 0:0 / .	ol Name D COAL				
Property Code 31563						6 Well Number 23			
⁷ OGRID N 217817		C		⁹ Elevation 6459.1'					
					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
С	21	29-N	8-W		739	NORTH	2155	WEST	SAN JUAN
			11 E	ottom 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
Dedicated Acres		or Infill 14 (Consolidation	Code 15	Order 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

16 S 88'54'00" W 5,185.62' (R) **OPERATOR CERTIFICATION** N 88'54'00" E 2,592.81' (M) I hereby certify that the information contained herein is true and NORTH QTR. COR. I nereby 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 mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract FD. 3-1/4" BRASS CAP BLM 1955 NORTHWEST COR FD 3-1/4. BRASS CAP BLM 1955 with an owner of such a mineral or working interest, or to a voluntary 2155' pooling agreement or a compulsory pooling order heretofore entered NAD 27 DATUM LAT: 36° 42' 48.35667" LONG: 107° 41' 1.18395 Signature Patsy Clugston Printed Name W/2 DEDICATED ACREAGE SF-078046 Sr. Regulatory Specialist Title and E-mail Address SECTION 21 T29N, R8W Date 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat WEST OTR. COR. FD. 3-1/4" BRASS CAP BLM 1955 was plotted from felid 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. Date of Survey: 06/09/06 Signature and Seal of Professional Surveyor PROFESSOR Certificate Number: NM 11393



Energy, Minerals and Natural Resources Incergy, Minerals and Natural	Submit 3 Copies To Appropriate District Office	State of New Mex	tico			Form C-103
District	District I	Energy, Minerals and Natural	Resources	<u></u>		
DISTRICT CONSERVATION DIVISION 1220 SOUTH S. Francis Dr. 1200 Sto Birrars Rd. Azer, Mrt 87410 Bartiell Strain F. Mrt 87410 Bartiell Mrt 87410 B	•		WELL API NO.	20.045	W087	
Dissell 1220 South St. Francis Dr. STATE FEE		5. Indicate Type of Lease	30-043- <u> </u>	1001		
Descript	District III	1220 South St. Franci	s Dr.	, · · · · · · · · · · · · · · · · · · ·	FEE	
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R. Well Number 23	T'		O A	Unghes P	,	İ
ON END THERE OF INTENTION TO: PERFORM REMEDIAL WORK SEE RULE 103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion. A well Describe proposed or completed operations. Clearly state all pertinent details, and give pertinent dates, including estimated date of recompletion. A service of the Exception of the working and pre-set mud pit will be disagram of proposed completion or recompletion. A service of the ser		(real e lor) real e lor)		Augnes n	•	
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grade tank has been/will be constructed or closed according to NMOCD guidelines, a general permit						
SIGNATURE Mury N. Monroe Type or print name For State Use Only APPPROVED BY TITLE Regulatory Technician DATE 11/29/2006 Tracey N. Monroe E-mail address: Tracey.N.Monroe@conocophillips.com Telephone No. 505-326-9752 DEC 2 2 2000 TITLE DATE	I hereby certify that the information about	ve is true and complete to the best of m	ny knowledge a	and belief. I further certify that any pit or below	v-	
Type or print name For State Use Only APPPROVED BY Tracey N. Monroe E-mail address: Tracey.N.Monroe@conocophillips.com Telephone No. 505-326-9752 SEPUTY OIL & GAS INSPECTOR, DIST. & DATE DATE	grade tank has been/will be constructed or close	d according to NMOCD guidelines, a gen	eral permit X	or an (attached) alternative OCD-approved plan	1	□.
Type or print name For State Use Only APPPROVED BY Tracey N. Monroe E-mail address: Tracey.N.Monroe@conocophillips.com Telephone No. 505-326-9752 CEPUTY OIL & GAS INSPECTOR, DIST. & DATE	SIGNATURE MARLE IN	Monre		Dominton Technical	To a serious	11/00/000
APPPROVED BY TITLE DEC 2 2 200	SIGNATURE //WY 30 //	mle _		Regulatory Technician	DATE	11/29/2006
APPPROVED BY TITLE DATE	-	N. Monroe E-mail address:	Tracey.N.N	Monroe@conocophillips.com Telephor	ne No. 5	05-326-9752
APPPROVED BY TITLE DATE	For State Use Only		okhala (NL & GAS INSPECTOR DIST AV		DEC 22 200
	APPPROVED BY	TITLE			DATE	
	Conditions of Approval (if any):					

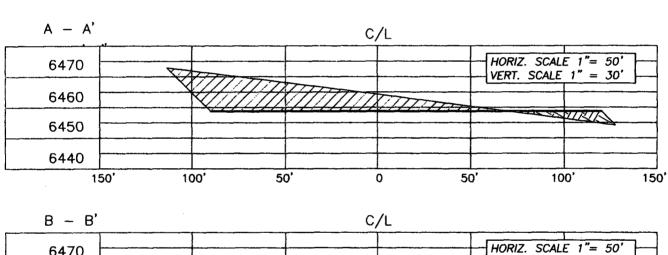
50' CONSTRUCTION ZONE RESERVE PIT DRAIN TO RESERVE 55' X 125' REAR WELLHEAD TO BACK WELLHEAD TO FRONT C-5.4 LAYDOWN S 28°46'53" E F+6.0 EXISITING ACCESS SCALE 1"= 100" NAD 83 DATUM NAD 27 DATUM

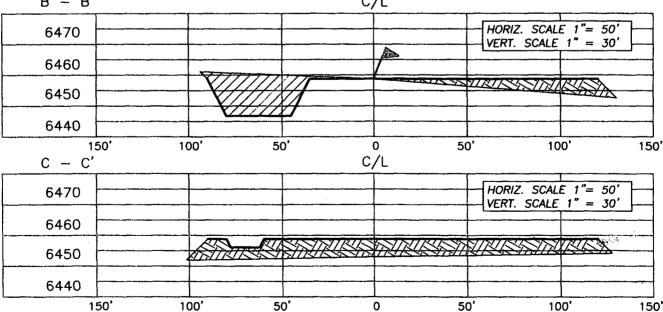
CONOCOPHILLIPS COMPANY

HUGHES B23 739' FNL, 2155' FWL SECTION 21, T29N, R8W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO ELEV.: 6,459.1' NADV88

LAT: 36° 42' 48.37900" LONG: 107° 41' 3.38800"

LAT: 36° 42' 48,35667" LONG: 107° 41' 1.18395"





NOTE: CCI IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD PRIOR TO CONSTRUCTION.

REVISIONS								
NO.	DESCRIPTION	REVISED BY	DATE					
			<u>L</u>					

1300 W. BROADWAY BLOOMFIELD,NM, 87413 PHONE: (505)632-7777 CCI

CHENAULT CONSULTING INC.

Form 316 (April200

UNITEDSTATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

	RCVI	DE	:15	'OE
FORMAPPROVED	-			1
OM B No. 1004-0137 Expires: March 31, 2	20071_	CON	S.I	M.
			mer.	

CHINDRY	NOTICES	AND	PEDODTS	\cap N	WELL	2

1151.3 5. Lease Serial No.

SUNDRY NOTICES AND REPOR	SF078046				
Do not use this form for proposals to de	6. If Indian, Allottee or Tribe Name				
abandoned well. Use Form 3160 - 3 (APD)) for such proposals.				
SUBMIT IN TRIPLICATE - Other instructi	ions on reverse side	7. If Unit or CA/Agreement, Name and/or No.			
1. Type of Well					
Oil Well Sas Well Other		8. Well Name and No.			
2. Nameof Operator	2006 DEC 5 PM	҈ЗНŲ́ ĜHES В 23			
ConocoPhillips Company		9. API Well No. 340 817			
3a. Address 3b. PO BOX 4289 Farmington NM 87499	Phone No. (include area code) (505)326, 9597	30-045- 34087			
4. Location of Well (Footage, Sec., T., R., M., or Survey Description		FRUITLAND COAL			
UNIT C (NENW), 739' FNL & 2155' FWL	,	11. County or Parish, State			
SEC. 21 T29N R8W NMPM		SAN JUAN			
		NM			
12. CHECK APPROPRIATE BOX(ES)TO INI	DICATE NATURE OF NOTICE, R	EPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION				
Acidize	Deepen Production (Sta	urt/Resume)			
X Notice of the section of the secti	FractureTreat Reclamation	Well Integrity			
Subsequent Report Casing Repair	New Construction Recomplete	X Other Change Total			
Change Plans	Plug and Abandon Temporarily Ab	Depth Depth			
Final Abandonment Notice Convert to Injection	Plug Back Water Disposal				
Describe Proposed or Completed Operation (clearly state all pertinent If the proposal is to deepen directionally or recomplete horizontally, g Attach the Bond under which the work will be performed or provide t following completion of the involved operations. If the operation result esting has been completed. Final Abandonment Notices shall be filed determined that the site is ready for final inspection.) ConocoPhillips wishes to change TD for this well freement as per the attached project proposal and determined that the site is ready for final inspection.	ive subsurface locations and measured and the Bond No. on file with BLM/BIA. Requits in a multiple completion or recompletion donly after all requirements, including reclarors 3090' to 3290' and adjust	rue vertical depths of all pertinent markers and zones. ired subsequent reports shall be filed within 30 days in a new interval, a Form 3160-4 shall be filed once			
14. I hereby certify that the foregoing is true and correct Name (Printed/Typed)	I				
Juanita Farrell	Title Regulatory Spe	ecialist			
Signature June Fairell	Date 12/04/2006				
THIS SPACE FOR FEI	DERAL OR STATE OFFICE	USE			
Approved by	Title AFM	Date (2/13/5)			
Conditions of approval, if any, are attached. Approval of this notice does					
certify that the applicant holds legal or equitable title to those rights in twhich would entitle the applicant to conduct operations thereon.		·			

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.



PROJECT PROPOSAL - New Drill / Sidetrack

ConocoPhillips San Juan Business Unit

HUGHES B 23

Lease:			AFE #: WAN.CNV.7182					AFE	\$:
Field Name: NEW MEXICO-EAST Rig: Azte			Rig 580		State: NM County: SAN JUAN			API	#:
Geoscientist: Brain, Ted H. Phone:			2-486-2592	2	Prod. E	ngineer:		Phone:	486-2334
Res. Engineer: Harrington,	Tim R.	Phone: 83	2-486-2207		Proj. Fi	eld Lead: Fran	isen, Eric E.	Phone:	
Primary Objective (Zone	95);								
Zone N	lame]					
R20001 FRUITL	AND COAL(R2000	1)							
Location: Surface	Datum Co	de: NAD 2	7					S	traight Hole
Latitude: 36.813400 Lo	ongitude: -107.68	3700 X:			Y:		Section: 21	Ra	ange: 8W
Footage X: 2155 FWL Fo	ootage Y: 739 FN	L Elev	ation: 6459	9 (FT) T	ownship: 29N			
Tolerance:									
Location Type: Year Round	ı	Start Date	(Est.):		Com	pletion Date:	Date	In Operation	on:
Formation Data: Assume	KB = 6475	Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS D	epletion Yes/No)	BHP (PSIG)	BHT		Rema	rks	
Surface Casing	216	6259				12-1/4 hole. 9 to surface.	5/8" 32.3 ppf, H-40	, STC casin	g. Circulate cement
NCMT	760	5715				to surface.			
MACC	2050	4425				Possible water	flows.		
(RLD	2210	4265							
FRLD	2795	3680				Possible gas.			
PCCF	3090	3385							
Total Depth	3290	3185				7 7/8" Hole. 5 to surface.	1/2", 17 ppf, N-80,	LTC Casing	. Circulate cement
Reference Wells:									1
Reference Type Well Na	me	С	omments						
Logging Program:									
Intermediate Logs: \ \ Lo	a only if show	GR/IID (☐ Triple C	`ombo					
	9 01117 11 311017	OIVILD (
									
TD Logs:	ple Combo 🔲 🛭	ipmeter [RFT 🔲	Sonic [VSP	☑ TDT			
			_						
Additional Information:									
1	·	(E4)	T=		·				
Log Type Stage	From	(Ft)	To (Ft)		lool	ype/Name	Remarks		

Printed on: 12/4/2006 2:43:13 PM

Comments: General/Work Description - FC 160

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 nent te Extender onide
Option 3	A20 sx 420 sx 196.6 bbls 1103.7 cuft 2.63 ft³/sx 11.7 ppg 15.2 gal/sx Class G Cement + 3% D079 Extender + 0.20% D046 Antifoam + 1.0 lb/bbl CemNet	Option 3 227 sx Com 227 sx Com 51.8 bbis 24 hrs 290.6 cuft 48 hrs 1.28 ft³/sx 1.28 ft³/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% D045 Antifoamer + 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	Comp. Strength 2:05 50 psi 4:06 500 psi 12 hrs 1250 psi 24hrs 1819 psi mt
Option 2 143 sx 30.8 bbls 172.9 cuft 1.21 ft ³ /sx 15.6 ppg 5.29 gal/sx Standard Cement + 3% Calcium Chloride + 0.25 lb/sx Flocele	Option 2 425 sx 196.6 bbls 1103.7 cuft 2.60 ft²/sx 11.5 ppg 14.62 gal/sx Type III Ashgrove Cement + 30 lb/sx San Juan Poz + 3% Bentionite + 5.0 lb/sx Phenoseal	Option 2 218 sx 51.8 bbls 290.6 cuft 1.33 ft²/sx 13.5 ppg 5.52 gal/sx 50/50 Poz: Standard Cement + 2% Bertonite + 6.0 lb/sx Phenoseal
Comp. Strength 6 hrs 250 psi 8 hrs 500 psi psi oride	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 ahane Flakes oride te Extender
SURFACE: Option 1 148 sx 30.8 bbls 172.9 cuft 117 f ² /sx 158 ppg 4.973 gal/sx Class 6 Cement + 3% S001 Calcium Chloride + 0.25 lb/sx D029 Cellophane Flakes	PRODUCTION LEAD: Option 1 406 sx 196 6 bbls 1103.7 cuft 2.72 ft ³ /sx 11.7 ppg 15.74 gal/sx Class G Cement + 3% D079 Extenden + 10 lb/sx Phenoseal	PRODUCTION TAIL: Option 1 222 sx Comp. 222 sx Comp. 518 bbls 3:53 5 290.6 cuft 8:22 11 1.31 ft²/sx 24 hrs 3 13.5 ppg 48 hrs 5 5.31 gal/sx 24 hrs 5 5.31 gal/sx 26 Cement + 0.25 lb/sx D020 Cellophane Flakes + 3% 5001 Calcium Chloride + 1% D020 Bentonite + 1.5 lb/sx D024 Gilsonite Extender + 6 lb/sx Phenoseal
12.25 9.025 1 32.3 ppf H 40 125 %	7.875 " 5.5 " 4.892 " 17 ppf N-80 150 %	
HOLE: CSG OD: CSG ID: WGT: GRADE: EXCESS: DEPTH:	HOLE: CSG OD: CSG ID: WGT: GRADE: EXCESS: TAIL:	

20/11/21 2/A DX

		Como Strenoth	10:56 500 psi	42 hrs 1012 psi			ss G Cement	phane Flakes				
		Option 5	196.6 bbls	1103.7 cuft	2.10 ft³/sx	11.7 ppg 11.724 cal/ex	75% Type XI / 25% Clas	+ 0.25 lb/sx D029 Cello	+ 3% D079 Extender + 0.20% D046 Antifoam			
		Comm Channeth	÷	12 hrs 350 psi	24 hrs 450			der)				
SURFACE:		INTERMEDIATE LEAD: Option Lead:	363 88 196.6 bbls	1103.7 cuft	2.88 ft³/sx	11.5 ppg	Standard Cement	+ 3% Econolite (Extender)	+ 10 lb/sx Phenoseal			
12.25 " 9.625 " 9.001 " 32.3 ppf H-40 125 %	238	7				5.5 "			150 %	959	3290	•
HOLE: CSG OD: CSG ID: WGT: GRADE: EXCESS:	OEPTH:				HOLE	CSG OD:	CSG ID:	GRADE:	EXCESS:	TAIL:	DEPTH:	
										ggarani.		

INTERMEDIATE TAIL:

If the 9.5/8" surface casing is preset drilled (MOTE) will cement w/75 xx 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.

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 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, &

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:

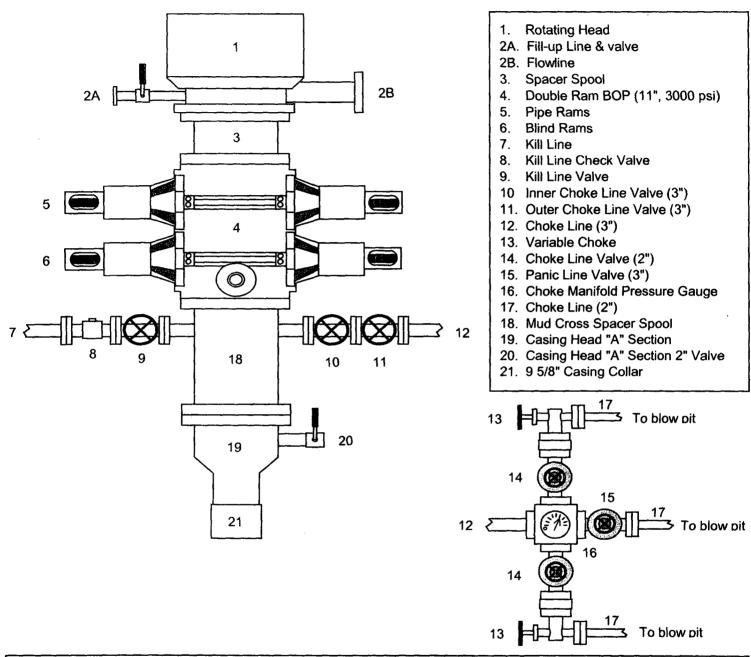
Surface: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 3rd, & 4th joints Intermediate: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 4th, 6th, 8th, 8th

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

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

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



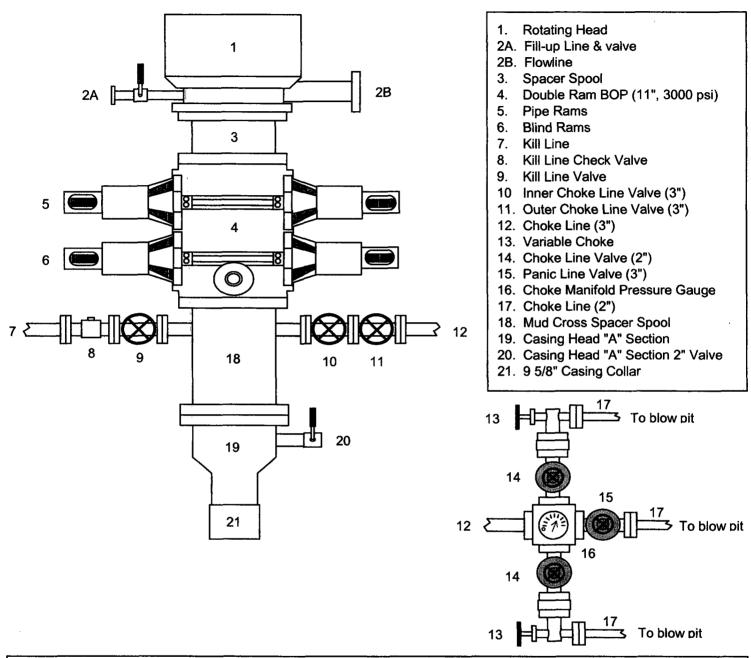
A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe 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 Production Casing Point & Setting 5 1/2" Production 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 a 7-7/8" hole will be drilled to production casing point and 5 1/2" production 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

Revision Date: April 28, 2005