DIST. 3

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	<u></u>	
la.	Type of Work DRILL RECTIVED ASSESSMENT	5. Lease Number NMNM-012698 Unit Reporting Number NMNM-784168-DIC NMNM- 6. If Indian, All. or Tribe
1b.	Type of Well 210 FAR IN TOTAL ME	6. If Indian, All. or Tribe
	Operator	7. Unit Agreement Name
	ConocoPhillips	San Juan 29-6 Unit
.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499	8. Farm or Lease Name
	(505) 326-9700	9. Well Number #89R
,	Location of Well Unit J (NWSE), 2590' FSL, 1645' FEL	10. Field, Pool, Wildcat Basin Dakota/Blanco Mesave
	Latitude 36° 44.40221'N	11. Sec., Twn, Rge, Mer. (NMPM) Sec. 11, T29N, R6W
	Longitude 107° 25.69923'W	API# 30-039- 30145
4.	Distance in Miles from Nearest Town 50 Miles Bloomfield	12. County 13. State Rio Arriba NM
5.	Distance from Proposed Location to Nearest Property or Lease L	ine
	Distance from Proposed Location to Nearest Property or Lease L 1645' Acres in Lease	ine 17. Acres Assigned to Well MV - 319.97 acres E/2 % DK - 319.83 acres S/2 %
6.	Acres in Lease Distance from Proposed Location to Nearest Well, Drlg, Compl, o	17. Acres Assigned to Well MV - 319.97 acres E/2 3 DK - 319.83 acres S/2 3
6. 8.	1645' Acres in Lease	17. Acres Assigned to Well MV - 319.97 acres E/2 3 DK - 319.83 acres S/2 3
16. 18.	Acres in Lease Distance from Proposed Location to Nearest Well, Drig, Compl, o 900', SJ 29-6 Unit 103 Proposed Depth	17. Acres Assigned to Well MV - 319.97 acres E/2 % DK - 319.83 acres S/2 % r Applied for on this Lease 20. Rotary or Cable Tools
18. 19. 21.	Acres in Lease Distance from Proposed Location to Nearest Well, Drlg, Compl, o 900', SJ 29-6 Unit 103 Proposed Depth 8161' Elevations (DF, FT, GR, Etc.)	17. Acres Assigned to Well MV - 319.97 acres E/2 % DK - 319.83 acres S/2 % r Applied for on this Lease 20. Rotary or Cable Tools Rotary
16. 18. 19. 21.	Acres in Lease Distance from Proposed Location to Nearest Well, Drlg, Compl, o 900', SJ 29-6 Unit 103 Proposed Depth 8161' Elevations (DF, FT, GR, Etc.) 6783'GL Proposed Casing and Cementing Program	17. Acres Assigned to Well MV - 319.97 acres E/2 % DK - 319.83 acres S/2 % r Applied for on this Lease 20. Rotary or Cable Tools Rotary
18. 19. 21. 23.	Distance from Proposed Location to Nearest Well, Drlg, Compl, o 900', SJ 29-6 Unit 103 Proposed Depth 8161' Elevations (DF, FT, GR, Etc.) 6783'GL Proposed Casing and Cementing Program See Operations Plan attached Authorized by: Regulatory Specialist	17. Acres Assigned to Well MV - 319.97 acres E/2 % DK - 319.83 acres S/2 7 TApplied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start
16. 18. 19. 21. 23. 24.	Distance from Proposed Location to Nearest Well, Drlg, Compl, o 900', SJ 29-6 Unit 103 Proposed Depth 8161' Elevations (DF, FT, GR, Etc.) 6783'GL Proposed Casing and Cementing Program See Operations Plan attached Authorized by: Regulatory Specialist	17. Acres Assigned to Well MV - 319.97 acres E/2 % DK - 319.83 acres S/2 7 TApplied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start
Archa Threa	Distance from Proposed Location to Nearest Well, Drig, Compl, o 900', SJ 29-6 Unit 103 Proposed Depth 8161' Elevations (DF, FT, GR, Etc.) 6783'GL Proposed Casing and Cementing Program See Operations Plan attached Authorized by: Regulatory Specialist APPROVAL DA	17. Acres Assigned to Well MV - 319.97 acres E/2 % DK - 319.83 acres S/2 7 TApplied for on this Lease 20. Rotary or Cable Tools Rotary 22. Approx. Date Work will Start 12/20/06 Date DATE ATE ATE ATE ATE DATE DATE ATE

DISTRICT 1 1626 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

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

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, NM 87505 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

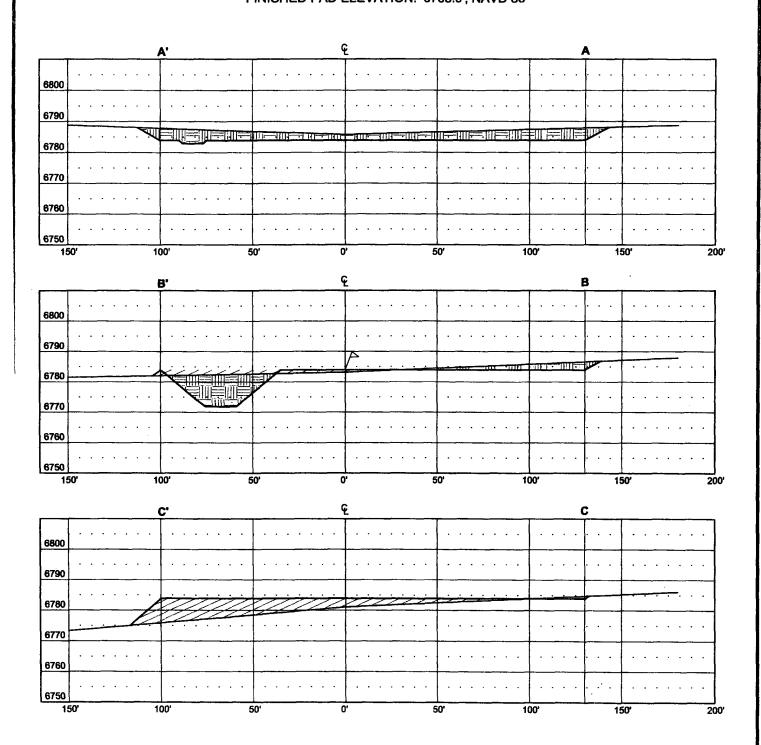
I ATT	Mary bar			Pool Code	AD AC	CREAGE DED	CATION PI		RCVD JA
- ар і -039-	Number 2	0145	1	77001 Code 0/72319				SA VERDE	OIL CONS
*Property C			<u> </u>		⁵ Property	Name		6.1	fell Number
31326				SAN	JUAN 2	!9-6 UNIT			89 R DIST.
70GRID No 217817	3.			_	*Operator				Elevation
					ONOCOP				6783'
L or lot no.	Section	Township	Range		trom the	Location North/South Has	Peet from the	East/West line	County
J	11	29N	6W		2590'	SOUTH	1645'	EAST	RIO ARRIBA
			¹¹ Botto			If Different Fr	om Surface		
L or lot no.	Section	Township	Range	Lot Idn Feet	from the	North/South line	Feet from the	Rast/West line	County
Dedicated Acr		L	sa Joint or i	nfill M Cot	solidation	Code	¹⁸ Order No.	<u> </u>	
319.97 Acr 319.83 Acr									
			ASSIGNED	TO THIS CO)MPLF:"I	ON UNTIL ALL	INTERESTS	HAVE BEEN C	ONSOLIDATET
TO ALBON	respect w	OR A	NON-STA	NDARD UNIT	HAS B	EEN APPROVED	BY THE DI	NOISIV	
			- Angles	LAT. 36.74004* LONG. 107.428 LAT. 36'44.402 LONG. 107'25.6	92' W (NAC 21' N (NAC	9 83)	Printed Regularity Control of the Co	nita Farrel Name Ilatory Spec ber 27 2006 URVEYOR CE Orify that the well lose I from field rates of a	ialist RTIFICATION
				11	7	1645 Flan.	the or tend		that the same is tru
							3	OCTOBER 6,	2006
			LEASE	NUNN-0126	98		Date of	•	
					7590		2865	and Seel of Profession	Serveyor:
					9: 220/	CP	003 € 101149 €	DAVID RUSSE	SURVEYOR
							g .0	OFESSION	MY THE
				S 8947 E		2639.34' (R) Rig 2638.77' (M) Rig	Z Z SC Certifical	DAVID RUSSE	IL.

Submit 3 Copies To Appropriate District	State of New Mex	tico		Form C-103
Office District I	Energy, Minerals and Natural	Resources		May 27, 2004
1625 N. French Dr., Hobbs, NM 88240		[WELL API NO.	30-039 - 30145
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION I	NOISION	5. Indicate Type of Lea	30-039 - 301 92
District III	1220 South St. Franci		STATE	FEE
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 8750	<u> </u>	6. State Oil & Gas Leas	
District IV				e - NMNM012698
1220 S. St. Francis Dr., Santa Fe, NM 8750			/	A
(DO NOT USE THIS FORM FOR PROPOSALS	ES AND REPORTS ON WELLS TO DRILL OR TO DEEPEN OR PLUG BACK T		Lease Name or Unit A	Agreement Name
DIFFERENT RESERVOIR. USE "APPLICATIO	N FOR PERMIT" (FORM C-101) FOR SUCH		San Ju	an 29-6 Unit
PROPOSALS.)		_	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1. Type of Well: Oil Well Gas Well X	Other	\[\bar{8}	8. Well Number	#89R
2. Name of Operator		9	O. OGRID Number	
Cono	coPhillips Company			217817
3. Address of Operator	CET EARMINICTON NIA 97400	1	0. Pool name or Wildon	
4. Well Location	EET, FARMINGTON, NM 87402		Bianco Mesa	verde/Basin Dakota
N .	590' feet from the South	line and	1645' feet from the	
Section 11		ng 6W	NMPM (County Rio Arriba
	Elevation (Show whether DR, RKB, RT, 6783' GL	GR, etc.)		
Pit or Below-grade Tank Application	or Closure		# # # # J F #	·宣報等等等 1. 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Pit type New Drill Depth to Groundwa	ater >100' Distance from nearest fresh	water well	>1000' Distance from	nearest surface water >1000'
Pit Liner Thickness: 12		lume 4400	bbls; Construction M	
		CNT 4	- O.1	
	Appropriate Box to Indicate Na		•	
NOTICE OF IN	PLUG AND ABANDON	REMEDIAL \	SUBSEQUENT RI	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS		DRILLING OPNS.	P AND A
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CE		┦ ' '''''
I OLL OIT ALTER OAGING		OAGIIIG/OE	MEN SOD	
_			MILITY SOD	
OTHER: New	Drill X	OTHER:		ling estimated date
OTHER: New 13. Describe proposed or complete		OTHER: t details, and giv	e pertinent dates, includ	
OTHER: New 13. Describe proposed or complete	Drill X d operations. (Clearly state all pertinen	OTHER: t details, and giv	e pertinent dates, includ	
OTHER: New 13. Describe proposed or complete of starting any proposed work).	Drill X d operations. (Clearly state all pertinen	OTHER: t details, and giv	e pertinent dates, includ	
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LATITUDE: 36.74004°N LONGITUDE: 107.42892°W DATUM: NAD 83

CONOCO PHILLIPS, COMPANY

SAN JUAN 29-6 UNIT #89 R 2590' FSL & 1645' FEL LOCATED IN THE NW/4 SE/4 OF SECTION 11, T29N, R6W, N.M.P.M., **RIO ARRIBA COUNTY, NEW MEXICO GROUND ELEVATION: 6783', NAVD 88** FINISHED PAD ELEVATION: 6783.9', NAVD 88



THIS DIAGRAM IS AN ESTIMATE OF DIRT BALANCE AND IS NOT INTENDED TO BE AN EXACT MEASURE OF VOLUME

VERT. SCALE: 1" = 30' HORZ. SCALE: 1" = 50" JOB No.: COP042 DATE: 10/23/06





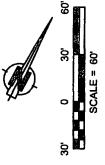
Russell Surveying 1409 W. Aztec Blvd. #5 Aztec, New Mexico 87410 (505) 334-8637

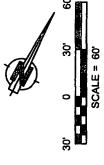
LONGITUDE: 107.42892°W LATITUDE: 36.74004°N DATUM: NAD 83

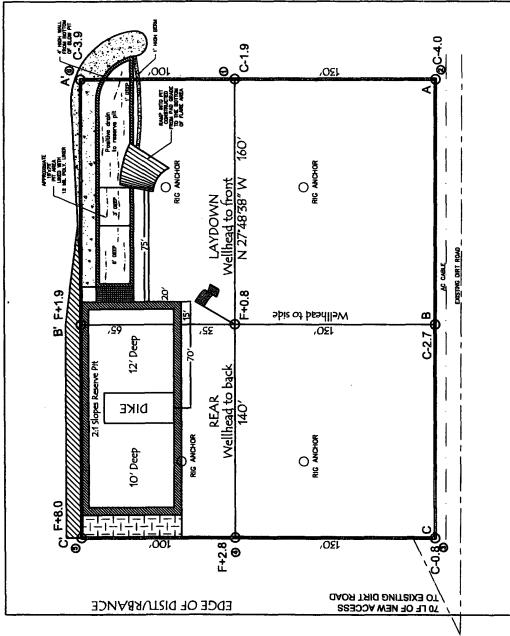
LOCATED IN THE NW/4 SE/4 OF SECTION 11, CONOCO PHILLIPS, COMPANY SAN JUAN 29-6 UNIT #89 R T29N, R6W, N.M.P.M., 2590' FSL & 1645' FEL

GROUND ELEVATION: 6783', NAVD 88 RIO ARRIBA COUNTY, NEW MEXICO

FINISHED PAD ELEVATION: 6783.9', NAVD 88







Aztec, New Mexico 87410 Russell Surveying 1409 W. Aztec Bivd. #5 (505) 334-8637

330' x 400' = 3.03 ACRES OF DISTURBANCE SCALE: 1" = 60"

JOB No.: COP042 DATE: 10/23/06

RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERTLOW — 3' WIDE AND 1' ABOVE SHALLOW SIDE).

KUSSELL SJENCTNIG, INC. 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, IN CONSTRUCTION ZONE AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.



PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-6 89R

Lease:				AFE #: WAN.CNV.7217						AFE \$:
Field Name: 29-6		į	Rig: XX	2008 Projects	5	,,	State:	NM County: RIO ARR	IBA	API #:
Geoscientist: Glas	er, Terry J	t	Phone:	(832)486-23	32	Prod.	Engineer:		Ph	one: 486-2334
Res. Engineer:	· · · · · · · · · · · · · · · · ·			832-486-238		Proi. F	ield Lead:	Fransen, Eric E.	Ph	one:
Primary Objectiv	re (Zones):								and the second	
Zone	Zone Name				7		name, and a stilled additional to the state of the state	MANAGAN AMAMBANAN SANSANJA, a. F. 1988 ^{FT} - P.F.B. Ft data binimingah v. Marca ya 18 FF FT VI Marcabi Satu Si San		etas ya mari'i i isaa sadduu aa a
R20002	MESAVERDE(I	R20002)			7					
R20076	DAKOTA(R200				-					
Location: Surface	C	atum Co	de: NA	D 27		A.A.				Straight Hole
Latitude: 36.74003	3 Longitud	e: -107.42	8317	X:		Y:		Section: 11		Range: 6W
Footage X: 1645 F	EL Footage	Y: 2590 F	SL	Elevation: 678	33	(FT)	Township:	29N		
Tolerance:									<u>-</u>	
Location Type: Yea	ar Round		Start D	ate (Est.):		Con	npletion Da	ate: Da	te In Op	eration:
Formation Data:	Assume KB =	6797	Units =	FT						
Formation Call & Casing Points		Depth TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	внт		Ren	narks	
Surface Casing		120			<u> </u>			pole. 9 5/8" 32.3 ppf, H	-40, STC	casing. Circulate
NCMT		1316	5481							
MACC		2830	3967				Possible v	water flows.		
KRLD		2978	3819							
FRLD		3393	3404				Possible (gas.		
PCCF		3716	3081							
LEWS		3797	3000	Ц			0.0/48.11			,
Intermediate Casing	}	3897	2900				8 3/4" Ho surface.	ble. 7", 20 ppf, J-55, S1	C Casing	j. Circulate cement to
HURF		4451	2346							
CHRA		4711	2086							
UCLFH		5274	1523							
CLFH		5510	1287				Gas; poss	sibly wet		
MENF		5593	1204				Gas.			
PTLK		5892	905				Gas.			
MNCS		6231	566							
UPPER GLLP		7133	-336				Gas. Pos	sibly wet.		
GRHN		786 4	-1067				Gas possi	ble, highly fractured		
GRRS		7917	-1120							
TWLS		7996	-119 9				Gas			
PAGU		8028	-1231				Gas. High	hly Fractured.		
CBBO		8043	-1246				Gas			
CBRL		8093	-1296							ı
TD		8161	-1364							
TOTAL DEPTH DK		8161	-1364				6-1/4" ho 15.5#, J-	le possibly underreame	to 9.5"	. Optional Liner: 5.5",
Reference Wells		<u></u>		11/41	·					
	Well Name			Comments						
Intermediate S	SJ 29-6 92			12-29N-6W-S	SW, KB =	6592				

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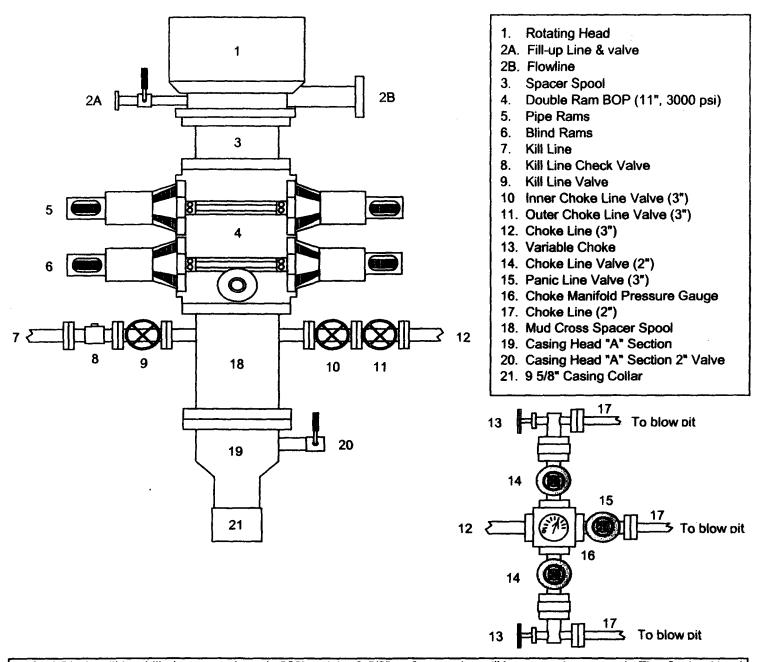
Comp. Strength 8 hrs 475 psi 24 hrs 1375 psi	Comp. Strength 3 hrs 100 psi 24 hrs 443 psi	Comp. Strength 24 hrs 1850 psi 48 hrs 3411 psi nent te Extender oride r nt
Option 3 37 sx 10.6 bbls 59.3 cuft 1.61 ft ³ sx 14.5 ppg 7.41 gal/sx Type I-II Ready Mix + 20% Fly Ash	Option 3 265 sx 124.2 bbls 697.2 cuft 2.63 ft ³ /sx 11.7 ppg 15.92 gal/sx Class G Cement + 3% D079 Extender + 0.20% D046 Antifoam + 1.0 lb/bbl CernNet	145 sx Com 33.0 bbls 24 hrs 185.4 cuft 48 hrs 1.28 ft²/sx 13.5 ppg 5.255 gal/sx 50/50 Poz. Class G Cement + 2% D020 Bentonite + 5.0 lb/sx D024 Gilsonite Extender + 5.0 lb/sx D024 Gilsonite Extender + 0.1% D046 Antifoamer + 0.1% D046 CemNet + 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 24hrs 1819 psi 12 hrs 500 psi 13:29 1026 psi 13:29 1026 psi ment educer ss Additive
Option 2 76 sx 16.4 bbts 91.9 cuft 1.21 ft ³ /sx 15.6 ppg 5.29 gal/sx Standard Cement + 3% Calcium Chloride + 0.25 lbfsx Flocele	Option 2 268 sx 124.2 bbls 697.2 cuft 2.60 ff ³ /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	139 sx Com 33.0 bbls 2.05 135.4 cuff 4:06 1.33 ft²/sx 12 hrs 13.5 pg 24hrs 5.52 gal/sx 50/50 Poz. Standard Cement + 2% Bentonite + 6.0 lb/sx Phenoseal 1.45 ft²/sx 13:29 1.31 ppg 24 hrs 6.55 gal/sx 50/50 Poz. Standard Cement + 3% Bentonite + 0.2% CFR-3 Friction Reducer + 0.1% HR-5 Retarder
9 sx Comp. Strength 4 bbls 6 hrs 250 psi 9 cuft 8 hrs 500 psi 7 ft ³ (sx ppg ppg 8 ppg 3 gal/sx Cement 01 Calcium Chloride 1x D029 Cellophane Flakes	Comp. Strength 9 hrs 300 psi 48 hrs 525 psi n	Comp. Strength 3:53 500 psi 8:22 1000 psi 24 hrs 5399 psi ment pphane Flakes lloride Comp. Strength 7 hrs 500 psi 24 hrs 2100 psi 24 hrs 2100 psi annt ment rite Extender er comp. Strength 7 hrs 500 psi 24 hrs 2100 psi 24 hrs 2100 psi ant er
SURFACE:	INTERMEDIATE LEAD:	NTERMEDIATE TAIL: 142 sx Comp. 142 sx 3.53 56 130 bbs 3.53 56 186.4 cuf 8.22 11 1.31 ft²/sx 24 hrs 3 13.5 ppg 48 hrs 55 5.317 gal/sx 220 Celiophane Flakes 5.317 gal/sx 2002 Celiophane Flakes 4.25 lb/sx D029 Celiophane Flakes 4.5 lb/sx D029 Celiophane Flakes 4.1 sx D020 Bentonite 4.1 sx Comp. 592.4 cuft 24 hrs 27 hrs 56 592.4 cuft 3 ms 24 hrs 27 6.47 gal/sx 24 hrs 27 1.0 b/sx D029 Celiophane Flakes 4.25% D020 Bentonite 4.1 sx D020 Bentonite 4.25% D040 Fluid Loss 4.25% D040 Fluid Loss 6.25% D040 Fluid Antifoamer 6.1% D040 Antifoamer 6.1% D046 Antifoam
12.25 " 9.625 " 9.001 " 32.3 ppf H-40 125 %	6.456 " 20 ppf 1-55 50 % 779.4	6.25 " 4.5 " 4.052 " 10.5 ppf J-55 30 %
HOLE: CSG OD: CSG ID: WGT: GRADE: EXCESS:	HOLE: CSG OD: CSG ID: WGT: GRADE: EXCESS: TAIL:	HOLE: CSG OD: CSG ID: WGT: GRADE: EXCESS:

M3- 12/1/06

SURFACE:	Option Pength psi psi psi 6	x 24 hrs 450 psi x 75% rnt 75% (Extender) + 0.3 6.85eal + 0.5	<u>INTERMEDIATE TAIL:</u>	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.	PRODUCTION:
12.25 " 9.625 " 9.001 " 32.3 ppf H-40 125 %		8.75 " 7 " 6.456 " 20 ppf J-55 50 %	3897		6.25 " 4.5 " 4.652 " 10.5 ppf J-55 30 %
HOLE: CSG OD: CSG ID: WGT: GRADE: EXCESS: DEPTH:		HOLE: CSG OD: CSG ID: WGT: GRADE: EXCESS:	TAIL: DEPTH: [HOLE: CSG OD: CSG ID: WGT: GRADE: EXCESS:

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

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



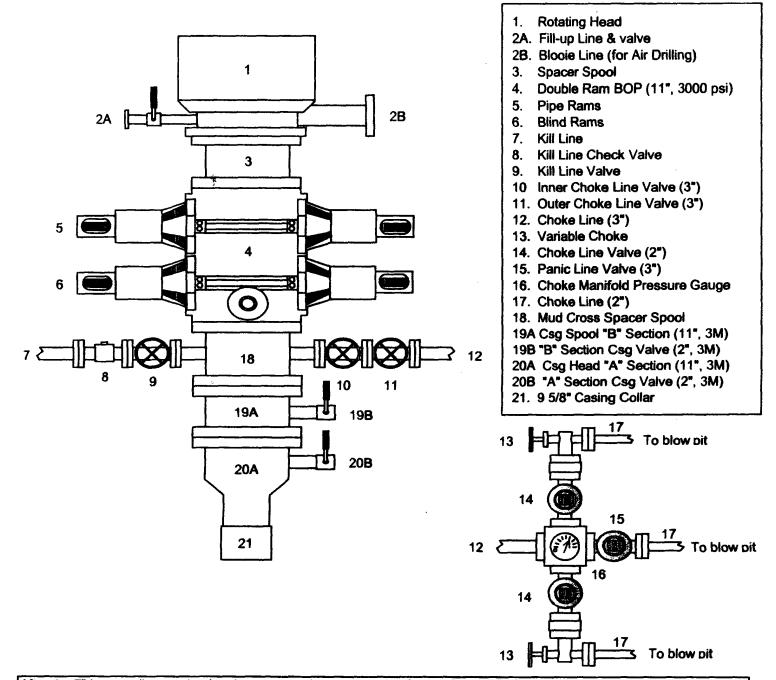
A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe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

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

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, 3nd, & 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, &

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