Form	31	60-3
(Augu	ıst	1999)

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 200

(August 1999)	UNITED S' DEPARTMENT OF		Expires Novem	
•	BUREAU OF LAND		5. Lease Serial No. SF - 078194	
	APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Trib	pe Name
Va. Type of Work:	☑ DRILL ☐ REENTER		7. If Unit or CA Agreement	, Name and No.
lb. Type of Well:	Oil Well 🛛 Gas Well 🔲 Ot			). 
	tor Contact: A PRODUCTION COMPANY	CHERRY HLAVA E-Mail: hlavacl@bp.com	9. API Well No. 30-045-	32366
3a. Address P.O. BOX 309 HOUSTON, T	92 X 77253-3092	3b. Phone No. (include area code) Ph: 281.366.4081 Fx: 281.366.0700	10. Field and Pool, or Explo BASIN DAKOTA & E	
4. Location of We	ell (Report location clearly and in accord	ance with any State requirements.*)	11. Sec., T., R., M., or Blk.	and Survey or Area
At surface At proposed p		. 36.47800 N Lat, 107.55400 W Lon	J Sec 19 T30N R10W	Mer NMP
14. Distance in m 5 MILES EA	iles and direction from nearest town or post ST OF CITY HALL IN AZTEC	office*	12. County or Parish SAN JUAN	13. State NM
15. Distance from lease line, ft. 1780'	proposed location to nearest property or (Also to nearest drig. unit line, if any)	16. No. of Acres in Cease	7. Spacing Unit dedicated 310.56 E/2	to this well
18. Distance from completed, ap 1400'	proposed location to nearest well, drilling, plied for, on this lease, ft.	7467 MD	20. BLM/BIA Bond No. on WY2924	file
21. Elevations (SI 6269 GL	now whether DF, KB, RT, GL, etc.	22. Approximate date work will start 06/28/2004	23. Estimated duration 7 DAYS	
		24. Attachments		
The following, comp	pleted in accordance with the requirements of	of Onshore Oil and Gas Order No. 1, shall be attached	to this form:	
<ol> <li>A Drilling Plan.</li> <li>A Surface Use Pl</li> </ol>	d by a registered surveyor.  an (if the location is on National Forest Sys filed with the appropriate Forest Service Of	Item 20 above).  5. Operator certification	information and/or plans as may	· ·
25. Signature (Electronic S	Submission)	Name (Printed/Typed) CHERRY HLAVA		Date 05/17/2004
Title REGULATO	RY ANALYST			7
Approved by (Sign	Mankier )	Name (Printed/Typed)		Date 6-10-04
Title	JEM .	Office FFO		
operations thereon.	l does not warrant or certify the applicant how al, if any, are attached.	olds legal or equitable title to those rights in the subjec	et lease which would entitle the ap	plicant to conduct
Title 18 U.S.C. Secti States any false, ficti	on 1001 and Title 43 U.S.C. Section 1212, tious or fraudulent statements or representa	make it a crime for any person knowingly and willfull tions as to any matter within its jurisdiction.	y to make to any department or ag	gency of the United

Additional Operator Remarks (see next page)

Electronic Submission #30803 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

s action is subject to technical and Commal review pursuant to 43 CFR 3165.3 appeal pursuant to 43 CFR 3165.4

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

### **Additional Operator Remarks:**

Notice of Staking was submitted on 03/26/04.

BP America Production Company respectfully requests permission to drill this well to a total depth of approximately 7467, complete in the Basin Dakota Pool, produce the well to establish a production rate, perform a deliverability test, isolate the Dakota then complete into the Blanco Mesaverde Pool and commingle production downhole.

Application for Downhole commingling authority (NMOCD order R-11363) will be submitted to all appropriate for approval after Permit to Drill has been approved.

### SUPPLEMENTAL TO SURFACE USE PLAN

#### New Facilities:

A 4 diameter buried steel pipeline that is +/- 600 feet in length will be constructed. The pipe wall thickness is .156 and the pipe wall strength is 42,000#. It will be adjacent to the access road and tie the well into an existing gas meter operated by BP America Production Company. The pipeline will not be used to transport gas to drill the well. After the well is spud the pipeline will be authorized by a right-of-way issued by El Paso.

If terrain allows, it is our intent to pre-set the 9 5/8" casing by drilling a surface hole with air/air mist in lieu of drilling mud and the surface casing be cemented with 94.5 cu/ft type I-II, 20% FLYASH, 14.5 PPG, 7.41 gas/sk, 1.61 cf/sk Yield, 80 DEG BHST ready mix cement. If the area will not allow for pre-set the approved cement program will be followed.

District I PO Box 1980, Hobbs NM 88241-1980 District II PO Drawer KK, Artesia, NM 87211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Let 16

Lot 17

1212(8)

Lot 15

Lot 18

1289'(R)

Lot 14

Lot 19

245b

District IV

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-102 Revised February 21, 1994 Instructions on back

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

PO Box 2088, San	ta Fe, NM 8	7504-2088						1		ENDED REPORT
		WE	LL LO	CATION	AND ACRI	EAGE DEDIC	ATION PLA	ΛT		
1	API Number		, T	<sup>2</sup> Pool Code	'		/ Pool N	lame		1
30-04	5-3	3236	715	99:72	359 Ba	sin Dakoto	a & Blanc	eo Me	sau	ierde
Property C	Code				<sup>3</sup> Property	Name				Well Number
411		L	udwicl	k LS						# 15M
OGRID					Operator				,	Elevation
00077	8	В	P AMI	ERICA	PRODUCT	ION COMPA	NY			6269
					10 Surface L	ocation				
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line	County
J (Lot 14)	19	30 N	10 W		2450	SOUTH	1780	EA	ST	SAN JUAN
<sup>11</sup> Bottom Hole Location If Different From Surface										
<sup>7</sup> UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County
				\						
<sup>12</sup> Dedicated Acre	a <sup>13</sup> Join	t or Infill "	Consolidatio	na Code 15	Order No.					
310.56										
NO ALLOV	VABLE	WILL BE	ASSIGNE	ED TO TH	IS COMPLETION	ON UNTIL ALL I	NTERESTS H	AVE BE	EN CC	NSOLIDATED
			Section and a section of the section	ANDARD		EN APPROVED	BY THE DIV	ISION	ektorek i seriaki sakiliko saa	
1237 (R)	)	1	295(R)	11/2-			OPE	RATOR	CER	TIFICATION
-		<u> </u>		<b>\( \)</b>			dereby or	utily that th	e leforms	ilion contained herein is
				Q		100	() true and si	ampirte to ti	e best of	my knowledge and belief
Loca		1	.ot 7	\$\$	Lot 6	10 18 my Lors	<b>X</b>			
				US			<b>) (</b> (-			
		OCC - A page of the latest and the l		X	B JUN	2004	1 01	/ sandan d	11/2	n in
				₩			Signature	ovy ?	<u>ran</u>	
				W.	100 - Car	Mar. A	Che	rry t	Vavo	t
		The second secon		<b>(</b> (	(00 6-86)		Printed N	ome T	1	/ _
Lot9		I.	.ot 10		rwiic.	La Lantz	Kegu	STORY	MA	y st

SURVEYOR CERTIFICATION

I besolve certify that the well leading shows on this plot was plotted from field roles of actual surveys made by me or under my supervision, and that the some is true and exercel to the best of my belief.

March 10, 2004 Date of Survey

Signature and Seal of Profe



(R) - BLM Record

1780'

Lot 13

Lot 20

## **BP AMERICA PRODUCTION COMPANY** DRILLING AND COMPLETION PROGRAM

Prospect Name: Ludwick LS

HGJ/JLP/JMP

Form 46 12-00 MNP

Well No: 15 M

Lease: Ludwick LS

Surface Location: 19-30N-10W, 2450 FSL, 1780 FEL

State: New Mexico

County: San Juan

Field: Blanco Mesaverde/Basin Dakota

Date: May 13, 2004

OBJECTIVE: Drill 240' I			ells memb	per of the Dal							
	THOD OF D									LOGICAL M	
TYPE OF TOOLS	Di	EPTH OF	DRILLI	NG	E	stimated	GL: 626			imated KB:	6283
Rotary	0	- TD		_		MARKER		S	UBSI	EA	TVD.
	LOG PROG	RAM			Ojo	Alamo			4841	,	1442'
					Kirk	land			4754	·	1529'
					Frui	itland			4089	'	2194'
<u>TYPE</u>	DI	PTH INT	RVAL		Fru	itland Coal	*		3844		2440'
OPEN HOLE					Pict	ured Cliffs	1		3529		2754'
None						is Shale	#		3256		3027'
					1	House	#		1966		4317'
DACED LIGHT						nefee Shale	e #		1714		4569'
CASED HOLE GR-CCL-TDT	тг	OT - TD to	7" choo			nt Lookout ncos	#		1208 831'		5075' 5452'
BL		entify 4-1/2		t ton		enhorn	<b>,</b>		-825°		7110'
)DL	iui	511tilly 4-1/2	Centen	ιτορ		tonite Marl	ker		-883		7166'
REMARKS:					_	Wells	#		-944		7227'
Please report any flares	(magnitude	& duration)				juate	#		-1021		7304'
repending marks	Comment of the commen					ero Upper			-1080		7363'
					Cub	ero Lower	#	1	-1115	i'	7398'
					End	inal Canyo	n #		-1146	j' [	7429'
					TO	TAL DEPTI	н 📗	<del></del>	-1184	,	7467'
					# P	robable cor	mpletion int	erval	* F	Possible Pay	
	SPECIAL TI	ESTS			DF	RILL CUT	TING SAN	/IPLES		DRILLING	TIME
ГҮРЕ	_					EQUENC'			FRE	EQUENCY	DEPTH
None					10'		3127' -	TD	Geo	lograph	0-TD
REMARKS:											
MUD PROGRAM:								<del></del>			
Approx. Interval	11	ype Mud	ı 1	Weight, #/g	ıa   Vis	s, sec/qt	W/L cc	's/30 mi	n l	Other Speci	fication
0 - 120		Spud	1	8.6-9.2		<del>,</del>			-		
120 - 3127		Vater/LSN	1D	8.6-9.2			<6				
3127 - 7467	` '	as/Air/N2			ufficie	nt to main	tain a stab	ole and c	lean v	wellbore	
REMARKS:	<u>.</u>										
1) The hole will require	sweens to	keen unlo	aded w	hile fresh v	water o	trilling Le	et hole cor	nditions o	dictate	e frequency	
CASING PROGRAM:											
Casing String	Estimate				Grade		Weight	Hole S		Landing Pt	
Surface/Conductor	Louinate	120	Casin	9 5/8"	H-40		32#		3.5"	1	, Cilit, Ett
ntermediate 1		3127		7"	J-55 S		20#		.75"	1,2	
Production	į.	7467		- 1		ן אומ			ı		
	<u> </u>	7407		4 72	J-55		11.6#	0.	.25	3, 4 Hydrill	
REMARKS:	. Constant										
1) Circulate Cement to		_									
2) Set casing 100' into											
3) Bring cement 100' a	ibove /" sho	е									
4) 100' Overlap											<del></del>
ORING PROGRAM:											
COMPLETION PROGE				`,							
Rigless, 1 - 2 Stage Lin		lydraulic f	Frac								<u> </u>
	•										
_											
_		to Spud; I	BOP tes	sting, and (	Casing	and Cem	enting.				
Notify BLM/NMOCD 24		to Spud; I	BOP tes				enting. riewed by:	N/A	4		
Notify BLM/NMOCD 24 Form 46 Reviewed by:						ogram rev		N/A	<del>\</del>		
GENERAL REMARKS Notify BLM/NMOCD 24 Form 46 Reviewed by: PREPARED BY:			BOP tes				viewed by:	N/A	<u> </u>		

Version 2.0

#### **BOP Test Pressure**

## **BP America Production Company BOP Pressure Testing Requirements**

Well Name:

County:

Ludwick LS

San Juan

15 M

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1442		
Fruitland Coal	2440		1
PC	2754		
Lewis Shale	3027		
Cliff House	4317	500	0
Menefee Shale	4569		
Point Lookout	5075	600	0
Mancos	5452		
Dakota	7227	2600	1449

Note: Determined using the following formula: ABHP - (.22\*TVD) = ASP

Requested BOP Pressure Test Exception: 1500 psi

SAN JUAN BASIN Dakota/MV Formation **Pressure Control Equipment** 

#### **Background**

The objective Dakota formation maximum surface pressure is anticipated to be less than 1000 psi, based on shut-in surface pressures from adjacent wells. Pressure control equipment working pressure minimum requirements are therefore 2000 psi. Equipment to be used will conform to API RP-53 (Figure 2.C.2) for a 2000 psi system per Federal Onshore Order No. 2. Due to available conventional equipment within the area, 3000 psi rated pressure control equipment will typically be utilized in a double ram type arrangement. Regional drilling rights to be utilized have substructure height limitations which exclude the use of annular preventers; therefore a rotating head will be installed above these rams. This pressure control equipment will be utilized for conventional drilling below conductor to total depth in the Basin Dakota. No abnormal temperature, pressure, or H2S anticipated.

### **Equipment Specification**

interval

**BOP Equipment** 

Below conductor casing to total depth 11" nominal or 7 1/16",3000 psi double ram preventer with rotating head.

All ram type preventers and related control equipment will be hydraulically tested to 250 psi (low pressure) and 2000 psi (high pressure), upon installation, following any repairs or equipment replacements, or at 30 day intervals. Accessories to BOP equipment will include kelly cock, upper kelly cock with a handle available, floor safety valves and choke manifold which will also be tested to equivalent pressure.

# **Cementing Program**

Well Name:	Ludwick LS 15N				Field:	Blanco M	esave	erde / Basin Da	kota	
Location:	19-30N-10W, 2	450 FSL, 1780	FEL		API No.					
County:	San Juan				Well Flac					
State: New Mexico					Formation:	Dakota M	lesaV	erde		
					KB Elev (es	t)	6283			
		1			GL Elev. (es	st)	6269			
Casing Program	:							······································		
Casing String	Est. Depth	Hole Size	Casing Size	Thread	TOC	Stage To	ol	Cmt Cir. Out		
•	(ft.)	(in.)	(in.)		(ft.)	Or TOL (	ft.)	(bbl.)		
Surface	120	13.5	9.625	ST&C	Surface	NA `	•	` '		
Intermediate	3127	8.75	7	LT&C	Surface	NA				
Production -	7467	6.25	4.5	ST&C	3027	NA				
Casing Propertie			Factor Included)							
Casing String	Size	Weight	Grade	Burst	Collapse	Joint St.		Capacity	Drift	
	(in.)	(lb/ft)		(psi.)	(psi.)	(1000 lbs	.)	(bbl/ft.)	(in.)	
Surface	9.62		2 H-40	3370		1400	., 254		<b>\</b> ,	8.845
Intermediate			0 K-55	3740		2270	234			6.456
Production -										
Production -	4.	5 11.	6 J-55	5350	4	1960	154	0.0155		3.875
Mud Program			<del></del>				<del>-</del>			
Apx. Interval	Mud Type	Mud Weigh	t	Recomme	ended Mud P	roperties Prio	<u>Cemei</u>	nting:		
(ft.)				PV	<20					
				YP	<10					
0 - SCP	Water/Spud	8.6-9.	2	Fluid Loss	<15					
SCP - ICP	Water/LSND	8.6-9.	2							
ICP - ICP2	Gas/Air Mist	N.	A							
ICP2 - TD	LSND	8.6 - 9.	<u>7</u>							
Cementing Progra										
<b>3 3</b>			Surface		Intermedia	ate		Production		
Excess %, Lead			100		75			40		
Excess %, Tail			NA		0			40		
BHST (est deg. F	)		75		120			183		
Special Instruction			1,6,7		1,6,8			2,4,6		
	1. Do not wash	oumps and lin			.,-,-			, -,-		
	2. Wash pumps	• •								
	3. Reverse out							-		
	4. Run Blend Te	et on Camani								
			d Density on 3.5"	diak						
			pressurized mud							
			ent is not circulat o surface, run ten		0-12 hr. after	r landing plug				
				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		· · · · · · · · · · · · · · · · · · ·				
Notes:	*Do makayash	dam f l	- 141b !! b.4					BIZE OTHIQUE.		
Notes:	*Do not wash uj	o on top of plu	g. Wash lines bef	ore displaci	ng productioi	i cement job to	14101111			
	*Do not wash uj	on top of plu	g. Wash lines bef	ore displaci	ng production	- Cement Job to				
	*Do not wash up	on top of plu	g. Wash lines bef	ore displaci FreshWat		Tement job to				<del></del>
Notes: Surface:	Preflush		20 bbl.	FreshWat		Tement job to			cuft	·
	Preflush Slurry 1		20 bbl. O sx Class C Cen	FreshWat				117	cuft	
	Preflush		20 bbl.	FreshWat		i cement job ic		117		<b></b>
Surface:	Preflush Slurry 1	100	20 bbl. O sx Class C Cen	FreshWat nent ccelerator)						ОН
Surface:	Preflush Slurry 1		20 bbl. O sx Class C Cen	FreshWat		Water		117		ОН
	Preflush Slurry 1	100	20 bbl. O sx Class C Cen	FreshWat nent ccelerator)				117		OH

## **Cementing Program**

Casing Equipment:

9-5/8", 8R, ST&C

1 Guide Shoe

1 Top Wooden Plug 1 Autofill insert float valve

Centralizers, 1 per joint except top joint

1 Stop Ring

1 Thread Lock Compound

Intermediate:					
	Fresh Water	20 bbl	fresh water		
	Lead		260 sx Class "G" Cen	nent	680 cuft
	Sturry 1		+ 3% D79 extend	der	
	TOC@Surface		+1/4 #/sk. Cellop	hane Flake	
			+ 5 lb/sk Gilsonit	e	
	Tail		60 sx 50/50 Class "0	G"/Poz	75 cuft
	Slurry 2		+ 2% gel (extend	ler)	
	50	O ft fill	+1/4 #/sk. Cellop	hane Flake	0.1503 cuft/ft OH
			+ 2% CaCl2 (acc	elerator)	0.1746 cuft/ft csg an
			+ 5 lb/sk Gilsonite	e	
Slurry Properti	ies:	Density	Yield	Water	
		(lb/gal)	(ft3/sk)	(gal/sk)	
lurry 1		11.4	2.63	15.8	
Slurry 2		13.5	1.27	5.72	
Casing Equipm	ment:	7", 8R, ST&C  1 Float Shoe (autofill with 1 Float Collar (autofill	· · · · · · · · · · · · · · · · · · ·		
Casing Equipn	ment:	1 Float Shoe (autofill wi 1 Float Collar (autofill w 1 Stop Ring	ith minimal LCM in mud)		
	ment:	1 Float Shoe (autofill wi 1 Float Collar (autofill w 1 Stop Ring Centralizers one in mid 1 Top Rubber Plug	ith minimal LCM in mud)		
	ment: Fresh Water	1 Float Shoe (autofill wi 1 Float Collar (autofill w 1 Stop Ring Centralizers one in mid 1 Top Rubber Plug	ith minimal LCM in mud)		
		Float Shoe (autofill with Float Collar (autofill with Float Collar (autofill with Float Contralizers one in mided to Top Rubber Pluges Thread Lock Compou	ith minimal LCM in mud) dle of first joint, then eve nd CW100	ery third collar	
	Fresh Water Lead	Float Shoe (autofill with Float Collar (autofill with Float Collar (autofill with Float Contralizers one in mided to Top Rubber Pluges Thread Lock Compou	ith minimal LCM in mud) dle of first joint, then eve nd  CW100  190 LiteCrete D961 /	ery third collar	471 cuft
	Fresh Water Lead Slurry 1	1 Float Shoe (autofill wi 1 Float Collar (autofill w 1 Stop Ring Centralizers one in mid 1 Top Rubber Plug 1 Thread Lock Compou	ith minimal LCM in mud) dle of first joint, then eve nd  CW100  190 LiteCrete D961 / + 0.03 gps D47 a	Pry third collar D124 / D154 ntifoam	
	Fresh Water Lead	1 Float Shoe (autofill wi 1 Float Collar (autofill w 1 Stop Ring Centralizers one in mid 1 Top Rubber Plug 1 Thread Lock Compou	ith minimal LCM in mud) dle of first joint, then eve nd  CW100  190 LiteCrete D961 /	D124 / D154 ntifoam d loss	
	Fresh Water Lead Slurry 1	1 Float Shoe (autofill wi 1 Float Collar (autofill w 1 Stop Ring Centralizers one in mid 1 Top Rubber Plug 1 Thread Lock Compou	ith minimal LCM in mud) dle of first joint, then eve nd  CW100  190 LiteCrete D961 / + 0.03 gps D47 a + 0.5% D112 fluid	D124 / D154 ntifoam d loss	
	Fresh Water  Lead  Slurry 1  TOC, 400' abov	1 Float Shoe (autofill wi 1 Float Collar (autofill w 1 Stop Ring Centralizers one in mid 1 Top Rubber Plug 1 Thread Lock Compou	th minimal LCM in mud) dle of first joint, then eve  CW100  190 LiteCrete D961 / + 0.03 gps D47 a + 0.5% D112 fluid + 0.11% D65 TIC	D124 / D154 Intifoam It loss	471 cuft
	Fresh Water  Lead Slurry 1 TOC, 400' abov  Tail Slurry 2	1 Float Shoe (autofill wi 1 Float Collar (autofill w 1 Stop Ring Centralizers one in mid 1 Top Rubber Plug 1 Thread Lock Compou	ith minimal LCM in mud) dle of first joint, then eve  nd  CW100  190 LiteCrete D961 / + 0.03 gps D47 a  + 0.5% D112 fluid  + 0.11% D65 TIC  160 sx 50/50 Class "G	D124 / D154 ntifoam d loss :: 2"/Poz ttender)	471 cuft
	Fresh Water  Lead Slurry 1 TOC, 400' abov  Tail Slurry 2	1 Float Shoe (autofill wi 1 Float Collar (autofill w 1 Stop Ring Centralizers one in mid 1 Top Rubber Plug 1 Thread Lock Compou 10 bbl	th minimal LCM in mud)  dle of first joint, then eve  nd  CW100  190 LiteCrete D961 / + 0.03 gps D47 a + 0.5% D112 fluid + 0.11% D65 TIC  160 sx 50/50 Class "6 + 5% D20 gel (ex + 0.1% D46 antife	D124 / D154 ntifoam d loss : a"/Poz tender)	471 cuft
Production:	Fresh Water  Lead Slurry 1 TOC, 400' abov  Tail Slurry 2	1 Float Shoe (autofill wi 1 Float Collar (autofill w 1 Stop Ring Centralizers one in mid 1 Top Rubber Plug 1 Thread Lock Compou 10 bbl	ith minimal LCM in mud) dle of first joint, then eve nd  CW100  190 LiteCrete D961 / + 0.03 gps D47 a + 0.5% D112 fluid + 0.11% D65 TIC  160 sx 50/50 Class "G + 5% D20 gel (ex	D124 / D154 Intifoam Id loss Iterder) Dam Inhane Flake	471 cuft

Schlumberger Private Page 2

## **Cementing Program**

+0.1% d800, retarder +0.15% D65, dispersant

				0.1026 cuft/ft OH
Slurry Properties:	Density	Yield	Water	
	(lb/gal)	(ft3/sk)	(gal/sk)	0.1169 cuft/ft csg ann
Slurry 1	9.5	2.52	6.38	
Slurry 2	13	1.44	6.5	Top of Mancos
				5452

Casing Equipment:

4-1/2", 8R, ST&C

1 Float Shoe (autofill with minimal LCM in mud)1 Float Collar (autofill with minimal LCM in mud)

1 Stop Ring

Centralizers, every 4th joint in mud drilled holes, none in air drilled holes.

1 Top Rubber Plug

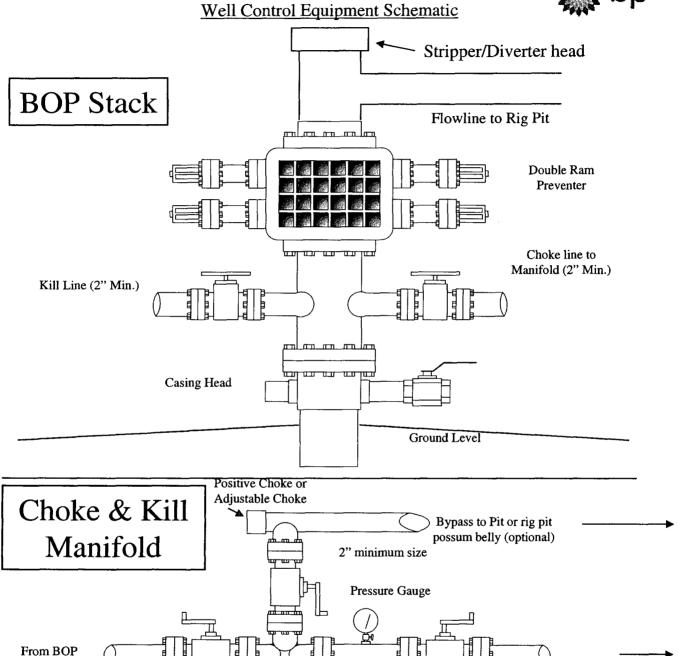
1 Thread Lock Compound

## **BP American Production Company**



Straight-thru to blow

pit/tank or return to rig Pit



Working Pressure for all equipment is 2,000 psi or greater

2" minimum size

Stack

Adjustable Choke

2" minimum size

2" minimum size

To Blow Tank or burn Pit

### PAD LAYOUT PLAN & PROFILE BP AMERICA PRODUCTION COMPANY Ludwick LS # 15M

2450' F/SL 1780' F/EL SEC. 19, T30N, R10W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO

Lat:

36947'48"

