FORM APPROVED

#### UNITED STATES OMB No. 1004-0136 DEPARTMENT OF THE INTERIOR Expires November 30, 2000 **BUREAU OF LAND MANGEMENT** APPLICATION OFOR PERMIT TO DRILL OR REENETER <u></u>5. Lease Serial No. NM-03566 If Indian, Allottee or tribe Name If Unit or CA Agreement, Name and No la. Type of Work: DRILL REENTER Lease Name and Well No. Oil Well Gas Well Gas Other Single Zone Multiple Zone Type of Well: Stewart LS 6N API Well No. Name of Operator BP AMERICA PRODUCTION COMPANY 30-045-34039 10. Field and Pool, or Exploratory 3a. Address 3b. Phone No. (include area code) P.O. BOX 3092 HOUSTON, TX 77079-2064 281-366-4081 Basin Dakota & Blanco Mesaverde Loction of Well (Report location clearly and in accordance with any State requirements.\*) 11. Sec., T., R., M., or Blk, and survey or Area SECTION 28 T30N & R10W At surface 2345' FNL & 1530' FEL SWNE G At proposed prod. Zone 2550 FNL & 1900 FEL Distance in miles and direction from nearest town or post office\* 12. County or Parish State **NEW MEXICO** 7.2 MILES SOUTHEAST FROM AZTEC, NM SAN JUAN Distance from proposed\* Spacing Unit dedicated to this well 16. No. of Acres in lease Location to nearest 322.26 322.26 Property or lease line, ft. (Also to nearest drig. Ujnit line, if any) 1081' Distance from proposed location\* 19. Proposed Depth 20. BLM/BIA Bond No. on file to nearest well, drilling, completed, 7408' MD WY2924 711 applied for, on this lease, ft. Elevations (show whether DF, KDB., RT, GL, etc. 22. Approximate date work will start\* Estimated duration 6251' GL 03/08/07 7 DAYS 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form: Bond to cover the operations unless covered by an existing bond on file (see Item Well plat certified by a registered surveyor. 1. 20 above). A Drilling Plan. Operator certification A Surface Use Plan (if the location is on National forest System Lands, the Such other site specific information and or plans as may be required by the SUPO shall be filed with the appropriate Forest Service Office). suthorized officer. Signature 25. Name (Printed/typed) 10/23/2006 Cherry Hlava Title Regulatory Ana Approved by (Sig Name (Printed/Typed) Title Office Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct Operations thereon. Conditions of approval, if any, are attached. 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.

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

\*(Instructions on reverse)

\$ 2/6/07

CROLLING OPERATIONS AUTHORIZED ARE CHIEF OF LA COVERNMENT ATTACHED LA COMMITTE ATTACHED LA CO

IN THE TO WINESS COR CEMENTY

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
District IV

PO Box 2088, Santa Fe, NM 87504-2088

## State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

100 001 28  $\pm 6.5$  7  $\pm 13$  amended report

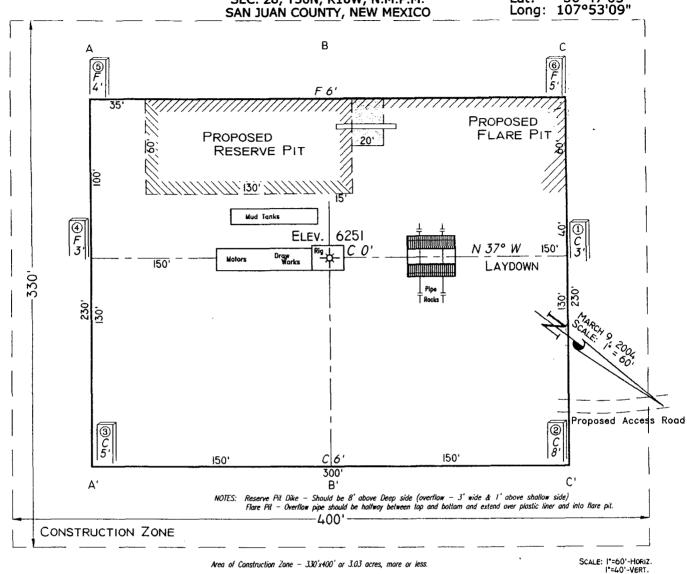
WELL LOCATION AND ACREAGE DEDICATION PLAT API Number 30-045-34039 \* Property Code 71599:72319 ta + Blanco Mesaverde Well Number # 6N 00 1129 1 OGRID No. Stewart LS Elevation <sup>5</sup> Operator Name 000718 **BP AMERICA PRODUCTION COMPANY** 6251 **Surface Location** East/West line Township Range Feet from the North/South line Feet from the County Lot Idn UL or Lot No. Section SAN JUAN EAST 2345 NORTH 1530 G (Lot 7) 28 30 N 10 W Bottom Hole Location If Different From Surface East/West line County UL or lot no. Township SanJuan 1900 Fast 28 2550' North (4 lot 7 30N 18W Joint or Infill Consolidation Code 322.26 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 hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Lot 4 Lot 3 Lot 2 Lot 1 345 Lot 8 Lat 6 Lot 5 Lot 7 1530' "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. March 9, 2004 Lot 12 Lot 11 Lot 10 Lot 9 Date of Survey Signature and Seal of Professional Surveyor Lot 13 Lot 16 Lot 14 Let 15 Certificate Nur 5222

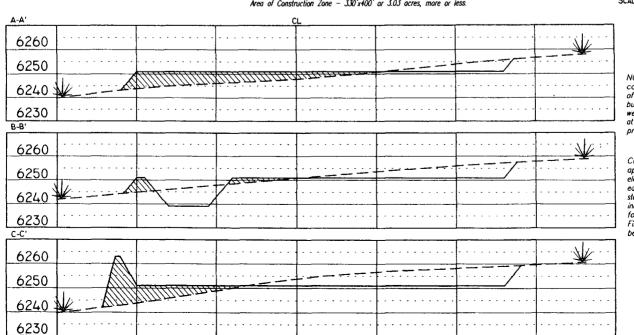
(R) - BLM Record

Submit 3 Copies To Appropriate District Office	State of New M		f	Form C-103		
District I	Energy, Minerals and Na	tural Resources	WELL API NO. 30 - 045	May 27, 2004		
1625 N. French Dr., Hobbs, NM 88240 District II	OIL CONSERVATIO	NIDIVISION	New Well	- 34034		
1301 W. Grand Ave., Artesia, NM 88210 District III	1220 South St. Fra		5. Indicate Type of Lease			
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 8	R7505	STATE FEE  6. State Oil & Gas Lease No.			
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		9 06T 28 67	J. State Off & Gas Lease 140.			
SUNDRY NOTI	CES AND REPORTS ON WELL	S program	7. Lease Name or Unit Agree	ment Name		
(DO NOT USE THIS FORM FOR PROPODIFFERENT RESERVOIR. USE "APPLIC PROPOSALS.)			Stewart LS			
	Gas Well  Other		8. Well Number			
2. Name of Operator			9. OGRID Number			
BP AMERICA PRODUCTION O	COMPANY		000778			
3. Address of Operator			10. Pool name or Wildcat			
P.O. BOX 3092 HOUSTON, TX	77079-2064		Basin Dakota & Blanco Mes	averde		
4. Well Location Unit Letter G:	2345 feet from the North	line and 153	0 feet from the East	line		
Section 28	Township 30N	Range 10W	NMPM SAN JUAN	County		
	11. Elevation (Show whether D	R, RKB, RT, GR, etc.)		t place of		
Pit or Below-grade Tank Application 🗵 o		251'	The Control of the Co	>200'		
Pit type_DRILLINGDepth to Ground		esh water well > 1000° I		•		
	Below-Grade Tank: Volume	bbls; Construc		-		
	Appropriate Box to Indicate					
12. CHECK P	appropriate box to indicate		- ·			
NOTICE OF IN			SEQUENT REPORT OF			
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WOR		CASING		
TEMPORARILY ABANDON DULL OR ALTER CASING	CHANGE PLANS   MULTIPLE COMPL	COMMENCE DRI	<u>=</u>	U		
_	_					
OTHER: LINED DRILLING PI	T   eleted operations. (Clearly state a)	OTHER:	Laive portinant detectionaludine	v estimated date		
of starting any proposed we or recompletion.	ork). SEE RULE 1103. For Mult	iple Completions: At	tach wellbore diagram of propo	sed completion		
			(11) Die G			
Construct a lined drilling pit	-	_		ction Plan		
issued date of 11/17/2004. Pi	it will be closed according	to closure plan of	i file.			
I haraby cartify that the information	ahaya ia tura and assumbte to the	hast of my lenguilede	and haliaf I found on our services			
I hereby certify that the information grade tank has been/will he constructed or						
$\sqrt{y}$	•					
SIGNATURE ( hurry /V/a	va TITLE	Regulatory Analy	/stDATE_10/23/06			
Type or print name Cherry Hlava	E-mail address:	hlavacl@bp.com	Telephone No. 28	81-366-4081		
For State Use Only		puty on a gas insi	ארוות מיכי מי			
APPROVED BY:	TITLE	- +.40 11/91	DATE FE	B 0 6 2007		
Conditions of Approval (if any):						

## PAD LAYOUT PLAN & PROFILE BP AMERICA PRODUCTION COMPANY

Stewart LS #6N 2345' F/NL 1530' F/EL SEC. 28, T30N, R10W, N.M.P.M.





NOTE: Contractor should call One—Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction.

36°47'03"

Lat:

Cuts and fills shown are approximate — final finished elevation is to be adjusted so earthwork will balance. Corner stakes are approximate and do not include additional areas needed for sideslapes and drainages. Final Pad Dimensions are to be verified by Contractor.

VANN SURVEYS P. O. Box 1306 Farmington, NM

,			BP AME	RICA PRO	DUCTION	COMP	ANY			
			DRILL	ING AND CO	MPLETION F 0/2006	ROGRA	M			
Lease:	Stewart LS		Well N	lame & No. Stew						
		New Mexico		Location: 28-30		FNL, 1530				
Minerals:	<del></del>				36.7840984 deg;					
Rig:	Aztec 184		BH	Location: 28-30				35726; Lor	ng:\-107.88	367052
	<del></del>	elow the top of the		1br, set 4-1/2" proc					<del></del>	
	The second second second	ETHOD OF DRIL		, oct 1 112 proc			E DEPTHS OF		ICAL MA	DKED
TVDE	OF TOOLS		DEPTH OF	DRILLING	Actual GL:			Estimated	<del></del>	
	Rotary	·	0-1		Marker	0230	SUBSEA		TÝD	APPROX. MD
	Rotary	100 0000								
		LOG PROGRA			Ojo Alamo		4,865'		1,399'	1,399'
Туре			Depth Interva	11	Kirtland		4,701'		1-563'	1,563'
Single F	Run				Fruitland		4,097'		2,167'	2,168'
					Fruitland Coal		859'		5,405'	2,409'
					Pictured Cliffs	*	3,515'		2,749'	2,759'
	~				Lewis		3,371'		2,893'	2,905'
Cased H					Cliff House	#	<b></b>		4,285'	4,319'
RST- C	BL		TD to 7" shoe		Menefee	#			4,528'	4,563'
		Identi	fy 4 ½" ceme	nt top	Point Lookout	#	<del></del>		5,042'	5,077'
REMARKS:				Mancos		809'		5,455'	5,490'	
					Greenhorn		-757'		7,021'	7,056'
				•	Graneros (bent,n	nkr)	-818'		7,082'	7,117'
				Two Wells	#	-869'		7,133'	7,168'	
The recommended TD is intended to penetrate the ENCN (~40') in order to			Paguate	#	-947'		7,211'	7,246'		
evaluate, and possibly produce it. Offsetting wells encountered no water flow			Cubero	#	-1,004'		7,268'	7,303'		
evaluate, and possibly produce it. Offsetting wells encountered no water not				L. Cubero	#	-1,042'		7,306'	7,341'	
at this depth. See attached cross-section.					Encinal Cyn	#	-1,095'		7,359'	7,394'
The intermediat	e casing sh	ould be set 100 ft.	into the MEN	F to minimize the					1	
	_				TOTAL DEPT	H:	-1,109'		7,373'	7,408'
risks encounter	ed drilling th	rough the possibly	water produc	ctive CLFH.	# Probable com	oletion inte	rval		* Possible	e Pay
SPECIAL TEST				·	DRILL CU				DRILLIN	G TIME
TYPE					FREQUENC		DEPTH	FREQ	UENCY	DEPTH
None					30'/10' interv	als 4,663 to TD Geolograph 0 - TD			0 - TD	
REMARKS:					00710 111.017	4.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		3	
MUD PROGRA	M.				<u> </u>		3574		!	
Interval	TypeMu	d #/gal	т ,	/is, sec/qt	/30 min		Otho	r Specific	ation	
200'	Spud			ent to clean hole.	730 11111		Other Specification			
	Water/LS			ent to clean note.		Swa				CM oneite
4,663'	<del></del>			-6 6 5	<9		ep hole while whilst water drilling, LCM onsite sufficient to maintain a stable and clean wellbore			
7,408'	Air Air	1	1000	cfm for hammer		volume	sufficient to ma	amtam a st	able and c	dean wellbore
CASING PROG						T			<u>'</u>	
CasingSt		Depth	Size	Casing Size	Grade, Thread		Landing	ng Point Cement		
Surface/Conduc	ctor	200'	13 1/2"	9-5/8"	H-40 ST&C	32#			cmt to surface	
Intermediate		0' - 4000'	8-3/4*	7*	J/K-55 ST&C	20#	<del> </del>			
Intermediate			0.0/48	7*			100' below MENF		cmt to surface	
		4000' - 4663'	8 3/4"	<del></del>	N-80 ST&C	23#				
Production Production		7,408'	6-1/4"	4-1/2"	B110 X	11.6#	DK(		150 ins	
Production				<del></del>					150 ins	ide Intermediate - survey required
	GRAM:			<del></del>	B110 X				150 ins	
Production  CORING PROG  None		7,408'		<del></del>	B110 X			OT	150 ins	
Production  CORING PROG  None  COMPLETION	PROGRAM	7,408'	6-1/4*	4-1/2"	B110 X			OT	150 ins	
Production  CORING PROG  None  COMPLETION	PROGRAM	7,408'	6-1/4*	4-1/2"	B110 X			OT	150 ins	
Production  CORING PROG  None  COMPLETION  Rigless, 2-3 Sta	PROGRAM	7,408'	6-1/4*	4-1/2"	B110 X			OT	150 ins	
Production  CORING PROG  None  COMPLETION  Rigless, 2-3 Sta  GENERAL REM	PROGRAM age Limited MARKS:	7,408' : Entry Hydraulic Fr	6-1/4" ac, FMC Uni	4-1/2"	P110 J			OT	150 ins	
Production  CORING PROG  None  COMPLETION  Rigless, 2-3 Sta  GENERAL REM  Notify BLM/NM6	PROGRAM age Limited MARKS: OCD 24 hou	7,408' : Entry Hydraulic Fr	6-1/4" ac, FMC Uni	4-1/2* head	P110 J			OT	150 ins	
Production  CORING PROG  None  COMPLETION  Rigless, 2-3 Sta  GENERAL REM  Notify BLM/NMM  BOP Pressure	PROGRAM age Limited MARKS: OCD 24 hou Testing Re	7,408' : Entry Hydraulic Fr irs prior to Spud, E	6-1/4" ac, FMC Uni	4-1/2" head and Casing and Ce	ementing.		DKG	OT .	150 ins TOC	survey required
Production  CORING PROCUMENTS  None  COMPLETION  Rigless, 2-3 State  GENERAL REM  Notify BLM/NMM  BOP Pressure  Format	PROGRAM age Limited MARKS: OCD 24 hou Testing Re	7,408' : Entry Hydraulic From the Spud, Equirements  Depth	6-1/4" ac, FMC Uni	4-1/2* head and Casing	ementing.		DKG	OT	150 ins TOC	survey required
Production  CORING PROG  None  COMPLETION  Rigless, 2-3 Sta  GENERAL REM  Notify BLM/NMG  BOP Pressure  Format  Cliffhor	PROGRAM age Limited MARKS: OCD 24 hou Testing Re ion use	7,408' : Entry Hydraulic Fr ers prior to Spud, E quirements Depth 4,285'	6-1/4" ac, FMC Uni	4-1/2* head and Casing and Ce	ementing.		DKG	oticipated	150 ins TOC	survey required
Production  CORING PROCUMENTS  None  COMPLETION  Rigless, 2-3 State  GENERAL REM  Notify BLM/NMM  BOP Pressure  Format	PROGRAM age Limited MARKS: OCD 24 hou Testing Re ion use	7,408' : Entry Hydraulic From the Spud, Equirements  Depth	6-1/4" ac, FMC Uni	4-1/2* head and Casing	ementing.		DKG	oticipated	150 ins TOC	survey required
Production  CORING PROG  None  COMPLETION  Rigless, 2-3 Sta  GENERAL REM  Notify BLM/NM6  BOP Pressure  Format  Cliffhor	PROGRAM age Limited MARKS: OCD 24 hou Testing Re ion use	7,408' : Entry Hydraulic Fr ers prior to Spud, E quirements Depth 4,285'	6-1/4" ac, FMC Uni	4-1/2* head and Casing and Ce	ementing.  n hole pressure		DKG	OT	150 ins TOC	survey required
Production  CORING PROD  None  COMPLETION  Rigless, 2-3 Sta  GENERAL REM  Notify BLM/NMM  BOP Pressure  Format  Cliffhor  Point Loc  Dakot	PROGRAM age Limited MARKS: OCD 24 hou Testing Re ion use bkout	7,408' : Entry Hydraulic From the Spud, Equirements Depth 4,285' 5,042'	6-1/4"  ac, FMC Unit	head and Casing and Ca	ementing.  n hole pressure	11.6#	Max ar	oticipated	150 ins TOC surface p 0 0	ressure**
Production  CORING PROD  None  COMPLETION  Rigless, 2-3 Sta  GENERAL REM  Notify BLM/NMM  BOP Pressure  Format  Cliffhor  Point Loc  Dakot	PROGRAM age Limited MARKS: OCD 24 hou Testing Re ion use Dkout ta	7,408' : Entry Hydraulic From From From From From From From From	6-1/4"  ac, FMC Unit	head  And Casing and Ce  Anticipated bottor  500  600  260  psi ** N	ementing.  n hole pressure  0 0	11.6#	Max ar	oticipated	150 ins TOC surface p 0 0	ressure**
Production  CORING PROD  None  COMPLETION  Rigless, 2-3 Sta  GENERAL REM  Notify BLM/NMM  BOP Pressure  Format  Cliffnot  Point Loc  Dakot  Reque	PROGRAM age Limited MARKS: OCD 24 hou Testing Re ion use okout ta ested BOP F wed by:	7,408' : Entry Hydraulic From From From From From From From From	6-1/4"  ac, FMC Unit  BOP testing, a	head  And Casing and Ce  Anticipated bottom  500  600  260  psi ** N  reviewed by:	ementing.  n hole pressure  0 0	using the	Max ar	oticipated	150 ins TOC surface p 0 0	ressure**
Production  CORING PROG None  COMPLETION  Rigless, 2-3 Sta GENERAL REM Notify BLM/NMM BOP Pressure Format Cliffhor Point Loc Dakot Reque Form 46 Review	PROGRAM age Limited MARKS: OCD 24 hou Testing Re ion use okout ta ested BOP F wed by:	7,408' : Entry Hydraulic From From From From From From From From	6-1/4"  ac, FMC Unit  BOP testing, a  eption = 1500 ing program	head  And Casing and Ce  Anticipated bottom  500  600  260  psi ** N  reviewed by:	ementing.  In hole pressure  O  O  O  O  Ote: Determined	using the	Max ar	oticipated  103	150 ins TOC surface p 0 0	ressure**

j.---

#### **Cementing Program**

Well Name:

Stewart LS #6N

Location:

28-30N-10W: 2345' FNL, 1530' FEL

County: State:

San Juan

**New Mexico** 

Well Flac

Formation:

KB Elev (est)

Blanco Mesaverde/Basin Dakota

GL Elev. (est)

6264 6250

Casing Program Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Thread	TOC (ft.)	
Surface	200	13.5	9.625	ST&C	Surface	
Intermediate	4663	8.75	7	ST&C	Surface	
Production -	7408	6.25	4.5	ST&C	4513	
Casing Propert	ties:	(No Safety	Factor Included)			
Casing String	Size	Weight	Grade	Burst	Collapse	
	(in.)	(lb/ft)		(psi.)	(psi.)	

Odding Oding	OILC	Weight		Giado	Duist	Collapse	
	(in.)	(lb/ft)			(psi.)	(psi.)	
Surface	9.62	25	32	H-40	2270		1400
Intermediate		7	20	K-55	3740		2270
Intermediate		7	23	N80	6340		3830
Production -	4	.5	11.6	J-55	5350		4960
	_						

Mud Program							
Apx. Interval Mud Type		Mud Weight	Recommended Mud Properties Prio Cementing:				
(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	NA					
ICP2 - TD	LSND	8.6 - 9.2					

10.0			
Cementing Program:			
	Surface	Intermediate	Production
Excess %, Lead	100	75	40
Excess %, Tail	NA	0	40
BHST (est deg. F)	75	120	183
Special Instructions	1,6,7	1,6,8	2,4,6

- 1. Do not wash pumps and lines.
- 2. Wash pumps and lines.
- 3. Reverse out
- 4. Run Blend Test on Cement
- 5. Record Rate, Pressure, and Density on 3.5" disk
- 6. Confirm densitometer with pressurized mud scales
- 7. 1" cement to surface if cement is not circulated.
- 8. If cement is not circulated to surface, run temp. survey 10-12 hr. after landing plug.

Notes:

\*Do not wash up on top of plug. Wash lines before displacing production cement job to minmize drillout.

Surface:

Preflush

20 bbl.

FreshWater

Slurry 1

154 sx Class C Cement

195 cuft

TOC@Surface

+ 2% CaCl2 (accelerator)

0.4887 cuft/ft OH

Slurry Properties:

Density (lb/gal)

Yield (ft3/sk) Water

Slurry 1

15.2

1.27

(gal/sk)

5.8

Casing Equipment:

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

1 Guide Shoe

1 Top Wooden Plug 1 Autofill insert float valve

Centralizers, as needed

1 Stop Ring

1 Thread Lock Compound

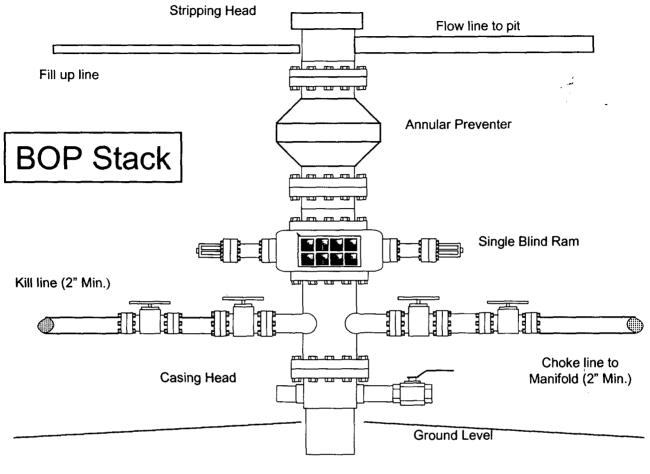
### **Cementing Program**

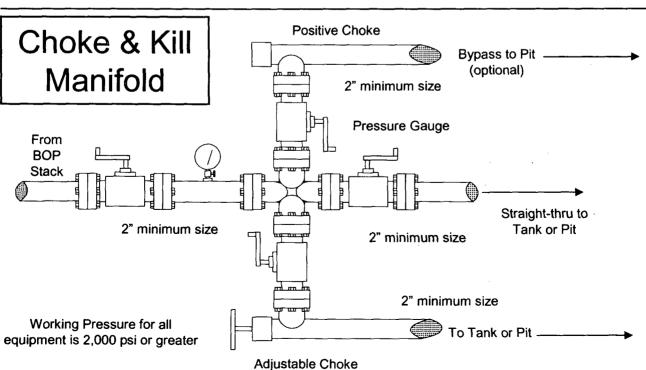
Intermediate:						1
	Fresh Water	20 bbl		fresh water		
	Lead		410	sx Class "G" Cement		1077 cuft
	Slurry 1			+ 3% D79 extender		
	TOC@Surface			+1/4 #/sk. Cellophane	e Flake	
	_			+ 5 lb/sk Gilsonite		
	<b>T</b> . 9			50/50 OL 101/D		754
	Tail		59	sx 50/50 Class "G"/Po	oz .	75 cuft
	Slurry 2	. 6. 60		+ 2% gel (extender)	- F1-1	0.4500 - 4/6 011
	500	) ft fill		+1/4 #/sk. Cellophane		0.1503 cuft/ft OH
				+ 2% CaCl2 (accelerated + 5 lb/sk Gilsonite	ator)	0.1746 cuft/ft csg ann
Slurry Properties:		Density		Yield	Water	
oldiny r Toperties.		(lb/gal)		(ft3/sk)	(gal/sk)	
Slurry 1		11.4		2.63	15.8	
Slurry 2		13.5		1.27	5.72	
Sidify 2		13.5		1.21	5.72	
Casing Equipment	Ľ	7", 8R, ST&C				
		1 Float Shoe (autofill with	mini	mal LCM in mud)		
		1 Float Collar (autofill with	n min	imal LCM in mud)		
		1 Stop Ring				
		Centralizers as needed				
		1 Top Rubber Plug				
		1 Thread Lock Compound	d			
Production:						
	Fresh Water	10 bbl		CW100		
	Lead		102	LiteCrete D961 / D12	4 / D154	256 cuft
	Slurry 1			+ 0.03 gps D47 antifo	oam	
	TOC, 400' above	e 7" shoe		+ 0.5% D112 fluid los	ss	
				+ 0.11% D65 TIC		
	Tail		141	sx 50/50 Class "G"/P	oz	204 cuft
	Slurry 2			+ 5% D20 gel (extend	der)	
	1418	3 ft fill		+ 0.1% D46 antifoam	1	
				+ 1/4 #/sk. Cellophar	ne Flake	
				+ 0.25% D167 Fluid I		
				+ 5 lb/sk Gilsonite		
				+0.1% d800, retarder	•	
				+0.15% D65, dispers	odiii	0.1026 cuft/ft OH
Slurry Properties:		Density		Yield	Water	0.1020 Cultur OH
Charry CTOPELLES.		· ·				0.4460
Charact 4		(lb/gal)		(ft3/sk)	(gal/sk)	0.1169 cuft/ft csg and
Slurry 1		9.5		2.52	6.38	
-		13		1.44	6.5	Top of Mancos 5490
Slurry 2						
-	t:	4-1/2", 8R, ST&C				
Slurry 2	t:		mini	mal I CM in mud\		
Slurry 2	<b>:</b>	1 Float Shoe (autofill with		•		
Slurry 2	t:	1 Float Shoe (autofill with 1 Float Collar (autofill with		•		
Slurry 2	t	Float Shoe (autofill with     Float Collar (autofill with     Stop Ring		•		
Slurry 2	t:	1 Float Shoe (autofill with 1 Float Collar (autofill with		•		

## **BP American Production Company**

Well Control Equipment Schematic









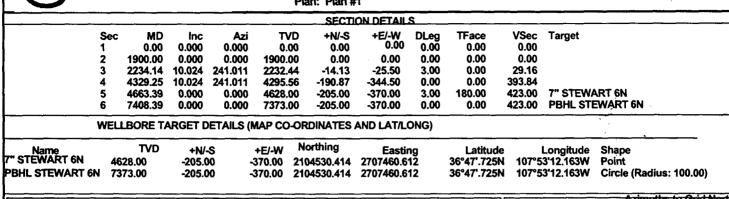
Project: Western - San Juan South Site: SEC 28-T30N-R10W

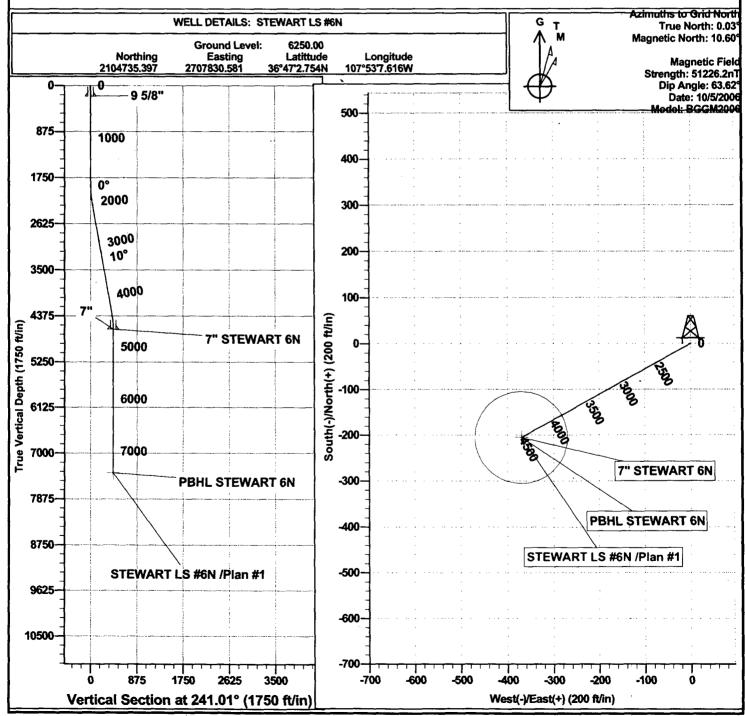
Well: STEWART LS #6N Wellbore:

Plan: Plan #1

Wellbore #1







# SAN JUAN BASIN Dakota 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 single 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**

#### <u>Interval</u>

#### **BOP Equipment**

Below conductor casing to total depth 11" nominal or 7 1/16", 2000 psi Single ram preventer—with 3000 psi annular preventer and rotating head. All ram type and annular preventers as well as related control equipment will be hydraulically tested to 250 psi (low pressure) and 1500 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.

#### Additional Operator Remarks Stewart LS 6N APD

#### NOTICE OF STAKING WAS SUBMITTED ON 07/11/06

BP America Production Company respectfully requests permission to directional drill the subject well to a total depth of approximately 7408' MD & 7373' TVD. Complete in the Basin Dakota Pool, isolate the Dakota; complete into the Blanco Mesaverde, establish a production rate; drill out the bridge plug 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.

If terrain allows it is our intent to pre-set the 9 5/8" casing on the above mentioned well 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 gal/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.

#### SUPPLEMENTAL TO SURFACE USE PLAN

#### New Facilities:

A 4.5" diameter buried steel pipeline that is +/- 100 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 Field Services.

#### APD/ROW