Form 3160-3
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANGEMENT
APPLICATION OFOR PERMIT TO DRILL OR REENETER

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

1a. Type of Work: ■ DRILL ☐ REENTER	5. Lease Serial No. SF - 078195
	6. If Indian, Allottee or tribe Name
	7. If Unit or CA Agreement, Name and No
1b. Type of Well: ☐ Oil Well ■ Gas Well Gas ☐ Other ☐ Single Zone ☐ Multiple Zone	8. Lease Name and Well No. SELLERS LS 6N
2. Name of Operator BP AMERICA PRODUCTION COMPANY	9. API Well No. 30-045-33250
3a. Address P.O. BOX 3092 HOUSTON, TXN 77079-2064 / 3b. Phone No. (*include area code*) 281-366-4081	10. Field and Pool, or Exploratory BASIN DK & BLANCO MESAVERDE
4. Loction of Well (***Report location clearly and in accordance with any State requirements.****) At surface 2000' FNL & 1035' FWL; At proposed prod. Zone 2170' FNL & 1750' FWL	11. Sec., T., R., M., or Blk, and survey or Area Sec. 30 T30N R10W E
14. Distance in miles and direction from nearest town or post office* 7.1 Miles East From Aztec, NM	12. County or Parish SAN JUAN / 13. State NEW MEXICO

15. Distance from proposed* Location to nearest Property or lease line, ft. (Also to nearest drig. Ujnit line, if any)	16. No. of Acres in lease 301.28	17. Spacing Unit dedicated to this well 301.28 W/2
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 7325 MD	20. BLM/BIA Bond No. on file WY 2924
21. Elevations (show whether DF, KDB., RT, GL, etc. 6111' GL	22. Approximate date work will start* 09/10/05	23. Estimated duration 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:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the suthorized officer.

25. Signature Cherry Hlava	Name (*Printed/typed*) Cherry Hlava	Date 07/15/05
Title Regulatory Analyst		
Approved by (Signature) [signature]	Name (*Printed/Typed*)	Date 9/27/05
Title AFM	Office FFO	

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.

*(*Instructions on reverse*)

HOLD C104 FOR directional survey

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

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

NMOCD

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

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

2005 JUL 20 PM 1 01

RECEIVED
070 FARMINGTON NM

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
30-045-33250	71599; 72319	Basin Dakota; Blanco Mesaverde

⁴ Property Code	⁵ Property Name	⁶ Well Number
01039	Sellers LS	# 6N

⁷ OGRID No.	⁸ Operator Name	⁹ Elevation
000778	BP AMERICA PRODUCTION COMPANY	6111

¹⁰ Surface Location

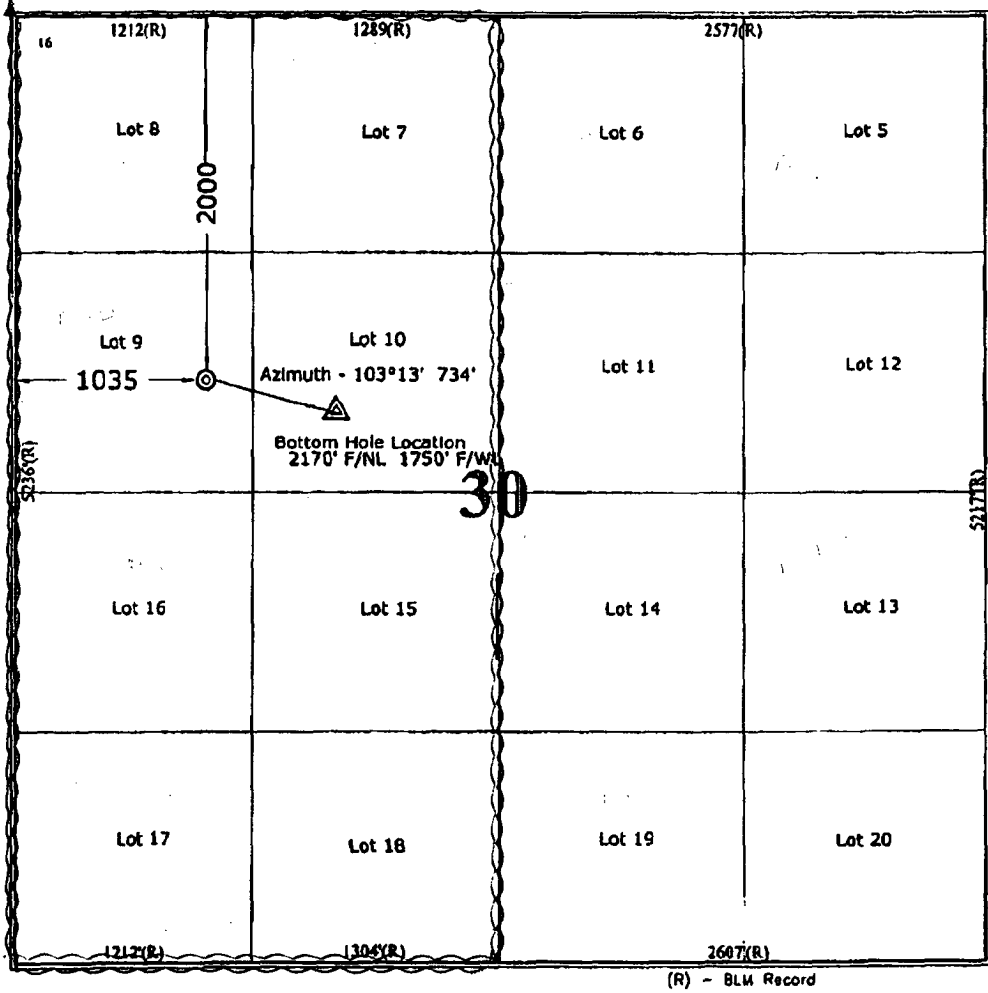
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Lot 9 (E)	30	30 N	10 W		2000	NORTH	1035	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

⁷ UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Lot 10 (F)	30	30 N	10 W		2170	NORTH	1750	WEST	SAN JUAN

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
301.28			

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



(R) - BLM Record

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature: Cherry Hlava

Printed Name: Cherry Hlava

Title: Regulatory Analyst

Date: 7-15-05

¹⁸ 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.

Date of Survey: June 24, 2005

Signature and Seal of Professional Surveyor

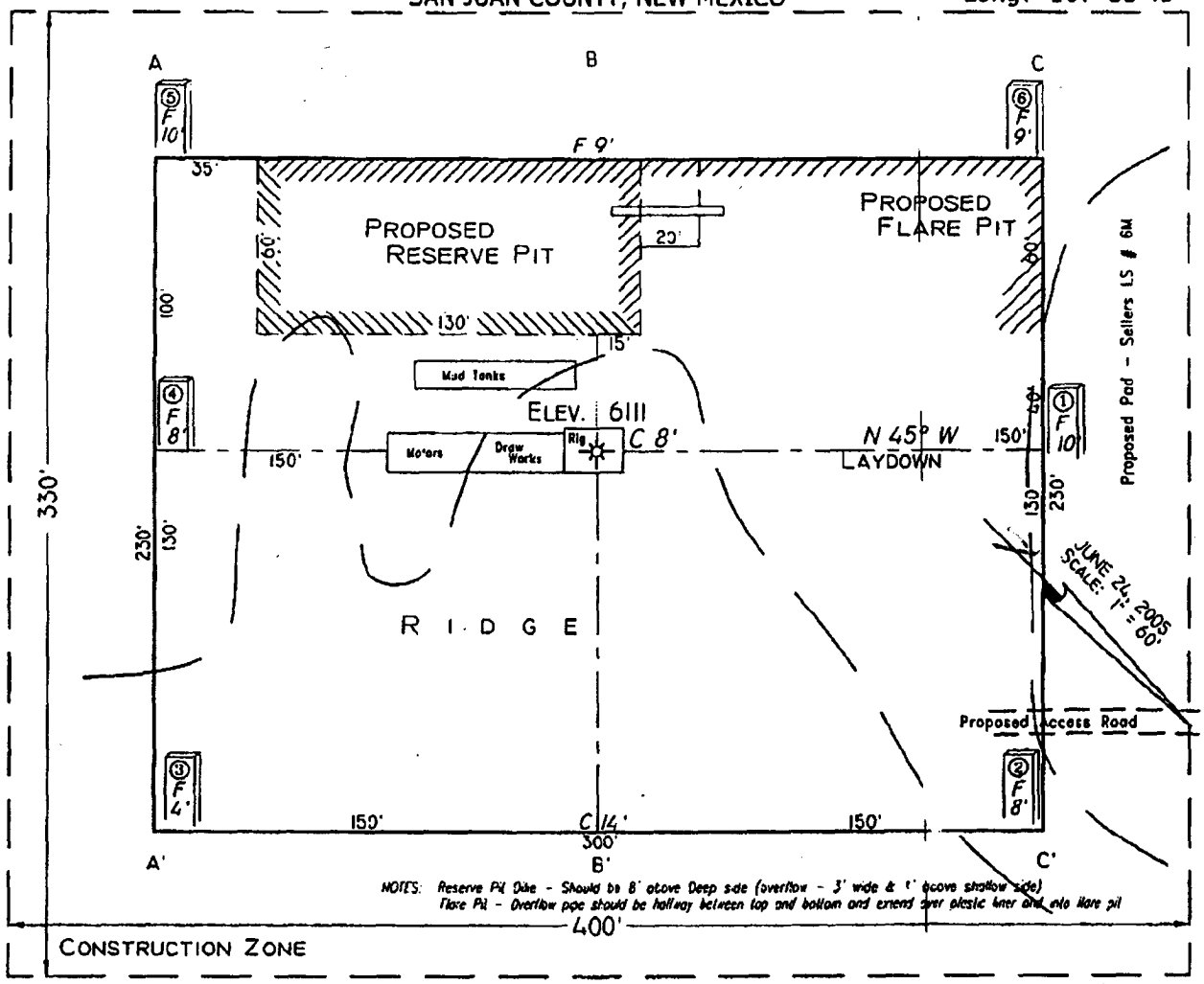
GARY D. VANN — NEW MEXICO — REGISTERED PROFESSIONAL LAND SURVEYOR — 7016

Certificate Number: 7016

PAD LAYOUT PLAN & PROFILE
BP AMERICA PRODUCTION COMPANY
Sellers # 6N
2000'F/NL 1035'F/WL
SEC. 30 T30N, R10W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

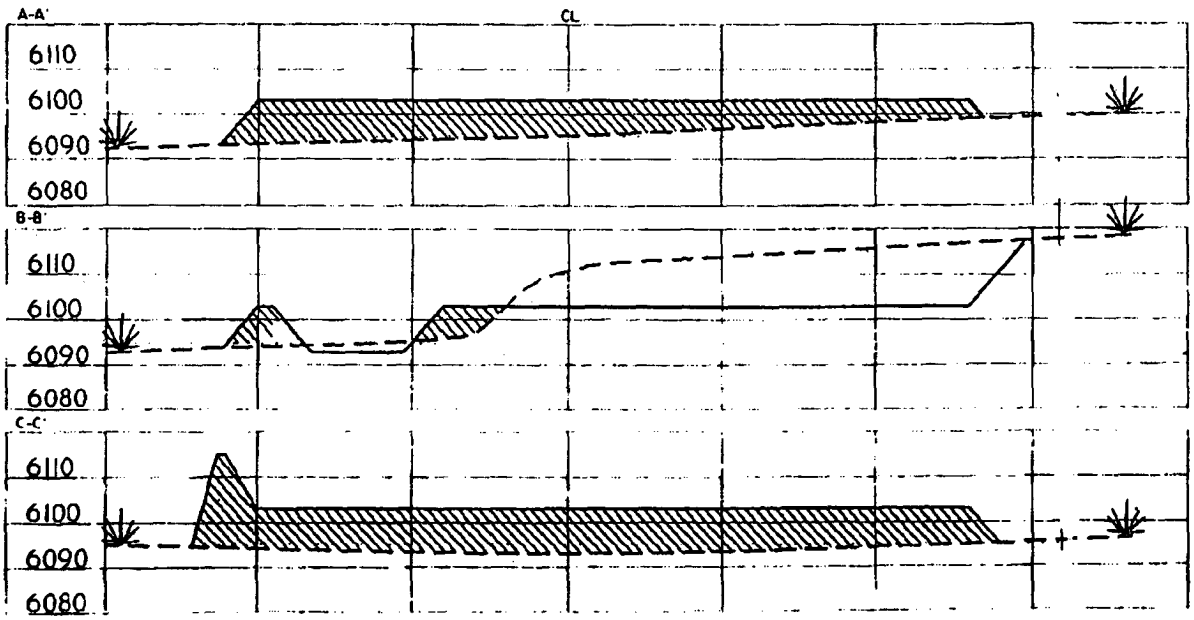
Lat: 36.7844°
Long: 107.9303°

Lat: 36°47'04"
Long: 107°55'49"



Area of Construction Zone - 330'x400' or 3.03 acres, more or less.

SCALE: 1"=60'-HORIZ.
1"=40'-VERT.



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.

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 sideslopes and drainages. Final Pad Dimensions are to be verified by Contractor.

VANN SURVEYS
P. O. Box 1306
Farmington, NM

BP AMERICA PRODUCTION COMPANY

DRILLING AND COMPLETION PROGRAM

6/30/2005

Lease:	Sellers LS	**Well Name & No.**	Sellers LS #6N	**Field:**	Blanco Mesaverde/Basin Dakota
County:	San Juan, New Mexico	**Surface Location:**	30-30N-10W: 2000' FNL, 1035' FWL		
Minerals:	State	**Surface:**			
Rig :	Aztec 184	**BH Location:**	30-30N-10W: 2170' FNL, 1750' FWL; Lat: 36.7839927 deg; Long: -107.9273612 deg		
OBJECTIVE:	Drill 270' below the top of the Two Wells Mbr, set 4-1/2" production casing, Stimulate DK, MF, and PL intervals.				

METHOD OF DRILLING

TYPE OF TOOLS	DEPTH OF DRILLING
Rotary	0 - TD

LOG PROGRAM

Type	Depth Interval
Single Run	
Cased Hole	
TDT- CBL	TD to 7" shoe
	Identify 4 ½" cement top

REMARKS:

- Please report any flares (magnitude & duration).

To be drilled from the Sellers LS #6M pad

APPROXIMATE DEPTHS OF GEOLOGICAL MARKER

Actual GL: 6107 Estimated KB: 6,121.0'

Marker		SUBSEA	TVD	APPROX. MD
Ojo Alamo		4,895'	1,226'	1,252'
Kirtland		4,768'	1,353'	1,386'
Fruitland	*	4,144'	1,977'	2,040'
Fruitland Coal	*	3,812'	2,309'	2,389'
Pictured Cliffs	*	3,567'	2,554'	2,644'
Lewis	*	3,329'	2,792'	2,889'
Cliff House	#	2,140'	3,981'	4,083'
Menefee	#	1,765'	4,356'	4,458'
Point Lookout	#	1,256'	4,865'	4,967'
Mancos		865'	5,256'	5,358'
Greenhorn		-721'	6,842'	6,944'
Graneros (bent,mkr)		-783'	6,904'	7,006'
Two Wells	#	-832'	6,953'	7,055'
Paguate	#	-904'	7,025'	7,127'
Cubero	#	-963'	7,084'	7,186'
L. Cubero	#	-985'	7,106'	7,208'
Encinal Cyn	#	-1,019'	7,140'	7,242'
TOTAL DEPTH:		-1,102'	7,223'	7,325'

Probable completion interval * Possible Pay

SPECIAL TESTS

TYPE
None

REMARKS:

DRILL CUTTING SAMPLES			DRILLING TIME	
FREQUENCY	DEPTH		FREQUENCY	DEPTH
30'/10' intervals	2,989'	to TD	Geolograph	0 - TD

MUD PROGRAM:

Interval	TypeMud	#/gal	Vis, sec/qt	/30 min	Other Specification
200'	Spud	8.8 - 9.0	Sufficient to clean hole.		
3,099'	Water/LSND	8.4 - 9.0		<9	Sweep hole while whilst water drilling, LCM onsite
7,325'	Air	1	1000 cfm for hammer		Volume sufficient to maintain a stable and clean wellbore

CASING PROGRAM:

CasingString	Depth	Size	Casing Size	Grade, Thread	Weight	Landing Point	Cement
Surface/Conductor	200'	13 1/2"	9-5/8"	H-40 ST&C	32#		cmt to surface
Intermediate 1	3,099'	8-3/4"	7"	J/K-55 ST&C	20#	100' below LWIS	cmt to surface
Production	7,325'	6-1/4"	4-1/2"	P-110	11.6#	DKOT	150' inside Intermediate - TOC survey required

CORING PROGRAM:

None

COMPLETION PROGRAM:

Rigless, 2-3 Stage Limited Entry Hydraulic Frac, FMC Unihead

GENERAL REMARKS:

Notify BLM/NMOCD 24 hours prior to Spud, BOP testing, and Casing and Cementing.

BOP Pressure Testing Requirements

Formation	Depth	Anticipated bottom hole pressure	Max anticipated surface pressure**
Cliffhouse	3,981'	500	0
Point Lookout	4,865'	600	0
Dakota	6,953'	2600	1070.34

Requested BOP Pressure Test Exception = 1500 psi

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

Form 46 Reviewed by:	Logging program reviewed by:			
PREPARED BY:	**APPROVED:**	**DATE:**	**APPROVED:**	**DATE:**
HGJ JMP		30-Jun-05		
Form 46 7-84bw	For Drilling Dept.		For Production Dept.	

Cementing Program

Well Name:	Sellers LS #6N		
Location:	30-30N-10W: 2000' FNL, 1035' FWL		
County:	San Juan	Well Flac	
State:	New Mexico	Formation:	Blanco Mesaverde/Basin Dakota
		KB Elev (est)	6121
		GL Elev. (est)	6107

Casing Program:

Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Thread	TOC (ft.)	Stage Tool Or TOL (ft.)	Cmt Cir. Out (bbl.)
Surface	200	13.5	9.625	ST&C	Surface	NA	
Intermediate	3099	8.75	7	LT&C	Surface	NA	
Production -	7325	6.25	4.5	ST&C	2999	NA	

Casing Properties: (No Safety Factor Included)

Casing String	Size (in.)	Weight (lb/ft)	Grade	Burst (psi.)	Collapse (psi.)	Joint St. (1000 lbs.)	Capacity (bbl/ft.)	Drift (in.)
Surface	9.625	32	H-40	2270	1400	254	0.0787	8.845
Intermediate	7	20	K-55	3740	2270	234	0.0405	6.456
Production -	4.5	11.6	J-55	5350	4960	154	0.0155	3.875

Mud Program

Apx. Interval (ft.)	Mud Type	Mud Weight
0 - SCP	Water/Spud	8.6-9.2
SCP - ICP	Water/LSND	8.6-9.2
ICP - ICP2	Gas/Air Mist	NA
ICP2 - TD	LSND	8.6 - 9.2

Recommended Mud Properties Prio Cementing:

PV	<20
YP	<10
Fluid Loss	<15

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 (gal/sk)
Slurry 1	15.2	1.27	5.8

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	253 sx Class "G" Cement		666 cuft

Cementing Program

Slurry 1		+ 3% D79 extender	
TOC@Surface		+1/4 #/sk. Cellophane Flake	
		+ 5 lb/sk Gilsonite	
Tail		59 sx 50/50 Class "G"/Poz	75 cuft
Slurry 2		+ 2% gel (extender)	
500 ft fill		+1/4 #/sk. Cellophane Flake	0.1503 cuft/ft OH
		+ 2% CaCl2 (accelerator)	0.1746 cuft/ft csg ann
		+ 5 lb/sk Gilsonite	

Slurry Properties:	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)
Slurry 1	11.4	2.63	15.8
Slurry 2	13.5	1.27	5.72

Casing Equipment: 7", 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 one in middle of first joint, then every third collar
1 Top Rubber Plug
1 Thread Lock Compound

Production:

Fresh Water	10 bbl	CW100	
Lead		183 LiteCrete D961 / D124 / D154	462 cuft
Slurry 1		+ 0.03 gps D47 antifoam	
TOC, 400' above 7" shoe		+ 0.5% D112 fluid loss	
		+ 0.11% D65 TIC	
Tail		146 sx 50/50 Class "G"/Poz	211 cuft
Slurry 2		+ 5% D20 gel (extender)	
1467 ft fill		+ 0.1% D46 antifoam	
		+ 1/4 #/sk. Cellophane Flake	
		+ 0.25% D167 Fluid Loss	
		+ 5 lb/sk Gilsonite	
		+0.1% d800, retarder	
		+0.15% D65, dispersant	
			0.1026 cuft/ft OH

Slurry Properties:	Density (lb/gal)	Yield (ft3/sk)	Water (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 5358

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

Scientific Drilling
Directional Drilling Operations

Field: SAN JUAN, New Mexico
Site: SEC 30-T30N-R10W
Well: Sellers LS 6N
Wellpath: OH
Plan: Plan #1

bp

SECTION DETAILS

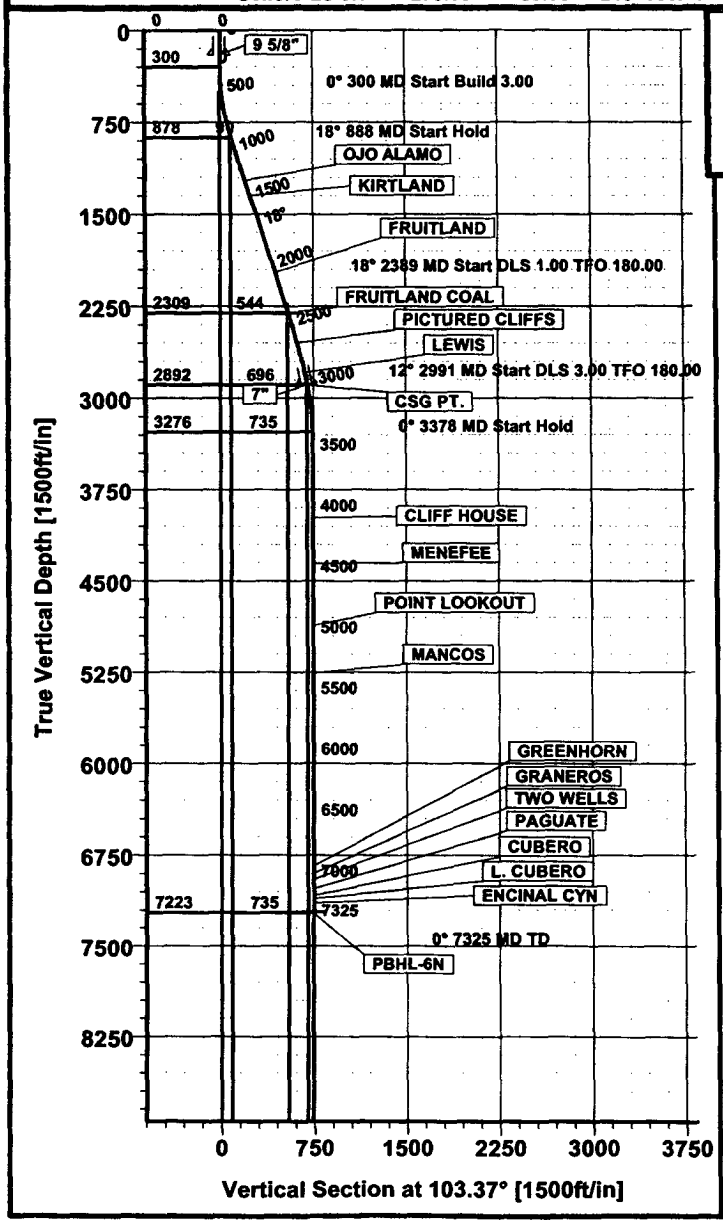
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
3	887.58	17.63	103.37	878.35	-20.74	87.24	3.00	103.37	89.67	
4	2388.71	17.63	103.37	2309.00	-125.85	529.50	0.00	0.00	544.25	
5	2991.48	11.60	103.37	2892.00	-161.00	677.39	1.00	180.00	696.26	CSG PT.
6	3378.13	0.00	0.00	3276.02	-170.02	715.34	3.00	180.00	735.26	
7	7325.11	0.00	0.00	7223.00	-170.02	715.34	0.00	0.00	735.26	PBHL-6N

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Fruitland coal-6N	2309.00	-125.85	529.50	2104754.59	2695376.84	Point
CSG PT.	2892.00	-161.00	677.39	2104719.44	2695524.72	Point
PBHL-6N	7223.00	-170.00	715.00	2104710.44	2695562.33	Circle (Radius: 100)

WELL DETAILS

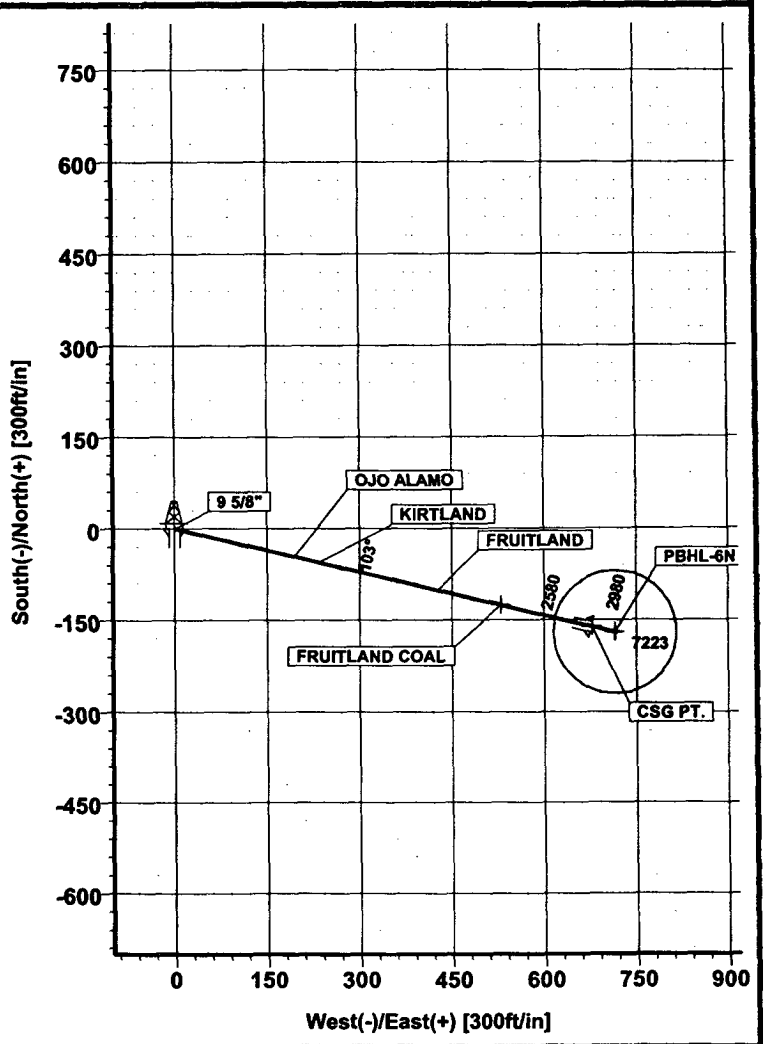
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Sellers LS 6N	-270.00	50.00	2104880.43	2694847.39	36°47'04.047N	107°55'47.296W	N/A



SITE DETAILS

SEC 30-T30N-R10W
SAN JUAN NEW MEXICO

Ground Level: 9113.00
Positional Uncertainty: 0.00
Convergence: -0.06



Scientific Drilling
Planning Report

Company:	BP	**Date:** 6/30/2005	**Time:** 16:59:42	**Page:**	1
Field:	SAN JUAN, New Mexico	**Co-ordinate(NE) Reference:**	Well: Sellers LS 6N, Grid North		
Site:	SEC 30-T30N-R10W	**Vertical (TVD) Reference:**	AGL=6107'+KB=14' 6121.0		
Well:	Sellers LS 6N	**Section (VS) Reference:**	Well (0.00N,0.00E,103.37Azi)		
Wellpath:	OH	**Plan:**	Plan #1		

Field:	SAN JUAN, New Mexico SAN JUAN COUNTY, NEW MEXICO USA		
Map System:	US State Plane Coordinate System 1983	**Map Zone:**	New Mexico, Western Zone
Geo Datum:	GRS 1980	**Coordinate System:**	Well Centre
Sys Datum:	Mean Sea Level	**Geomagnetic Model:**	bggm2005

Site:	SEC 30-T30N-R10W SAN JUAN NEW MEXICO				
Site Position:		**Northing:**	ft	**Latitude:**	
From:	Lease Line	**Easting:**	ft	**Longitude:**	
Position Uncertainty:	0.00 ft			**North Reference:**	Grid
Ground Level:	9113.00 ft			**Grid Convergence:**	-0.06 deg

Well:	Sellers LS 6N				**Slot Name:**		
Well Position:	+N/-S	-270.00 ft	**Northing:**	2104880.43 ft	**Latitude:**	36 47 4.047 N	
	+E/-W	50.00 ft	**Easting :**	2694847.39 ft	**Longitude:**	107 55 47.296 W	
Position Uncertainty:		0.00 ft					

Wellpath:	OH			**Drilled From:**	Surface
				Tie-on Depth:	0.00 ft
Current Datum:	AGL=6107'+KB=14'	**Height**	6121.00 ft	**Above System Datum:**	Mean Sea Level
Magnetic Data:	6/30/2005			**Declination:**	10.73 deg
Field Strength:	51400 nT			**Mag Dip Angle:**	63.64 deg

Vertical Section:	**Depth From (TVD)** ft	**+N/-S** ft	**+E/-W** ft	**Direction** deg
	0.00	0.00	0.00	103.37

Plan:	Plan #1	**Date Composed:**	6/30/2005
		Version:	5
Principal:	Yes	**Tied-to:**	From Surface

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
887.58	17.63	103.37	878.35	-20.74	87.24	3.00	3.00	0.00	103.37	
2388.71	17.63	103.37	2309.00	-125.85	529.50	0.00	0.00	0.00	0.00	
2991.48	11.60	103.37	2892.00	-161.00	677.39	1.00	-1.00	0.00	180.00	CSG PT.
3378.13	0.00	0.00	3276.02	-170.02	715.34	3.00	-3.00	-26.73	180.00	
7325.11	0.00	0.00	7223.00	-170.02	715.34	0.00	0.00	0.00	0.00	PBHL-6N

Section 1 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Section 2 : Start Build 3.00

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
400.00	3.00	103.37	399.95	-0.61	2.55	2.62	3.00	3.00	0.00	0.00
500.00	6.00	103.37	499.63	-2.42	10.18	10.46	3.00	3.00	0.00	0.00
600.00	9.00	103.37	598.77	-5.44	22.88	23.51	3.00	3.00	0.00	0.00
700.00	12.00	103.37	697.08	-9.65	40.60	41.74	3.00	3.00	0.00	0.00
800.00	15.00	103.37	794.31	-15.05	63.31	65.08	3.00	3.00	0.00	0.00
887.58	17.63	103.37	878.35	-20.74	87.24	89.67	3.00	3.00	0.00	0.00

SAN JUAN BASIN
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 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", 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.

FEDERAL CEMENTING REQUIREMENTS

1. **All permeable zones containing fresh water and other usable water containing 10,000 PPM or less total dissolved solids will be isolated and protected from contamination by cement circulated in place for the protection of permeable zones per the NTL-FRA 90-1 Section III A.**

2. **The hole size will be no smaller than 1 ½" larger diameter than the casing O.D. across all water zones.**

3. **An adequate spacer will be pumped ahead of the cement slurry to help prevent mud contamination of the cement.**

4. **An adequate number of casing centralizers will be run through usable water zones to ensure that the casing is centralized through these zones. The adequate number of centralizers to use will be determined by API SPEC 10D.**

5. **Centralizers will impart a swirling action around the casing and will be used just below and into the base of the lowest usable water zone.**

6. **A chronological log will be kept recording the pump and slurry information and will be sent to the BLM with the subsequent sundry.**

NEW MEXICO MULTIPOINT REQUIREMENTS

1. Existing Roads
   A. The proposed location is staked as shown on the Certified Plat.
   B. Route and distance from nearest town is identified on the form 3160-3, item #14.
   C. Access road(s) to location are identified on Exhibits A & B.
   D. Not applicable unless exploratory well.
   E. All existing roads within one-mile radius of the well site are shown on Exhibit B.
   F. Improvements and/or maintenance of existing roads may be done as deemed necessary for BP's operations, or as required by the surface management agency.

2. Access Roads
   A. Width: No New Road
   B. Maximum Grades: 0 - 8%
   C. Turnouts: None
   D. Drainage will be used as required
   E. Size and location of culverts, if needed. will be determined at the onsite inspection or during construction.
   F. Surfacing materials may be applied to the proposed road and/or location if the conditions merit it.
   G. Gates and/or cattle guards will be installed at fence crossings if deemed necessary by the land owner or the surface management agency.
   H. The proposed new access road is center-line flagged if applicable.

3. Location and Existing Wells
   A - H All existing wells, to the best of our knowledge, are identified on Exhibit C (9 Section Plat).

4. Location of Existing and/or Proposed Facilities
   A. All existing facilities owned or controlled by BP are shown on Exhibits D & E
   B. If this proposed well is productive, BP will own or have control of these facilities on location: storage tanks, well head production unit, and if applicable, a pump jack and/or compressor. Also there will be buried production lines from the wellhead to the production unit and/or storage tanks. BP will submit a Sundry Notice when off-pad plans are finalized.
   C. Rehabilitation, whether the well is productive or not, will be made on all unused areas in accordance with surface owner or manager approval.

5. Location and Type of Water supply
   Water will be obtained from a privately permitted water source through a contract water hauling company, It will be hauled in vacuum trucks via the access road (Exhibit A). The appropriate permits for this activity have been obtained by the water transporter.

6. Source of Construction Materials
   A - D No off-site materials will be needed to build the proposed location or access road.

7. Methods of Handling Waste Disposal
   A closed loop mud system will be used during drilling operations. All drill cuttings will be trenched, and buried on location. Drilling fluids will be stored for reuse or disposed of at an approved disposal facility. A reserve pit for produced water containment will be constructed during completion operations. The reserve pit will be fenced on three sides and the 4th side will be fenced upon removal of the rig. The pit will be allowed to sit for 90 days and then

pulled as required by NTL-2B. Produced water will be disposed of at an approved injection well or an evaporation site. Sanitary facilities and a steel mesh portable trash container will remain on location throughout drilling operations and will be removed to a designated disposal area. The well site will be properly cleaned upon removal of the rig.

8. Ancillary Facilities
   To the best of our knowledge, no ancillary facilities will be needed at this time.

9. Well Site Layout
   A - C Cross-sections etc. See Exhibit D. Exact location of rig related equipment will be determined when BP contracts a drilling rig; however, all this equipment will be contained on location. The location diagram reflects actual area of well pad. Total disturbed area will vary due to cut and fill slopes.
   D. Reserve Pit(s):
   Unlined ___
   Lined ___X___ (8-10 mil reinforced plastic, size sufficient to cover pit area and fit underneath a rig tank.)

10. Plans for Restoration of Surfaces
    Restoration of the surface will be conducted after the reserve pit has dried. The pit will then be cleaned up and back filled and the entire disturbed area will be re-contoured. The topsoil stockpile will then be uniformly placed over this area and reseeding of the site will be carried out as instructed by the appropriate management agency. Methods to protect against erosion will be employed. After final abandonment, additional restoration efforts will be applied.

11. Surface Ownership: Bureau of Land Management

12. Other Information
    A. General Description
       1. Archaeological clearance, topography, soil character, and flora and fauna are detained in the archeologist's report forwarded by an approved contact archaeologist to the appropriate management agency.
       2. Land uses include recreation, grazing and oil and gas development.

13. Operator's Representative and Certification

    BP America Production Company
    Bill Hicks, Resource Manager
    P. O. Box 3092
    Houston, TX 77253

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan area, to the best of my knowledge, are true and correct; and, that the work associated with the operations proposed herein will be performed by BP AMERICAN PRODUCTION COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date: 07/15/2005 By Cherry Hlava
For Bill Hicks, Resource Manager

BP American Production Company

Well Control Equipment Schematic