UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

5.	Lease Serial No.					
	SF - 0800597	08	30	5	9	7

SF		087	- - 0	8	\mathcal{O}	5	7	4

APPLICATION FOR PERMIT	TO DRILL OR REE	ENTER	6. If Indian, Allottee or Trib	e Name
la. Type of Work: 🗖 DRILL 🔲 REENTER			7. If Unit or CA Agreement,	
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Oth	ner 🔲 Single	e Zone Multiple Zone	Lease Name and Well No GARTNER LS 6M	•
	MARY CORLEY E-Mail: corleyml@bp.com		9. API Well No. 30 045 3	// 74
3a. Address P.O. BOX 3092 HOUSTON, TX 77253	3b. Phone No. (include Ph: 281.366.4491 Fx: 281.366.0700	e area code)	10. Field and Pool, or Explo BASIN DAKOTA/BLA	ratory
4. Location of Well (Report location clearly and in accorded	ance with any State requi	rements.*)	11. Sec., T., R., M., or Blk.	and Survey or Area
At surface SESE Lot P 990FSL 940F8 At proposed prod. zone	EL 36.46100 N Lat, 1	107.39400 W Lon	Sec 27 T30N R8W M	ler NMP
14. Distance in miles and direction from nearest town or post	office*		12. County or Parish	13. State
21.5 MILES FROM BLOOMFIELD, NEW MEXIC	o o		SAN JUAN	NM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of Acres in Le	ase	17. Spacing Unit dedicated t	o this well
940	320.00		320.00 E/2	
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth		20. BLM/BIA Bond No. on	file
1000	7540 MD		WY2924	
21. Elevations (Show whether DF, KB, RT, GL, etc. 6238 GL	22. Approximate date 10/01/2002	work will start	23. Estimated duration 7 DAYS	
	24. Attac	chments		
The following, completed in accordance with the requirements of	of Onshore Oil and Gas O	order No. 1, shall be attached to	this form:	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Of 	tem Lands, the fice).	Item 20 above). 5. Operator certification	ons unless covered by an existing a covered by an existing and/or plans as may be a covered by an existing and the covered by an existing an	
25. Signature (Electronic Submission)	Name (Printed/Typed) MARY CORLEY			Date 08/14/2002
Title AUTHORIZED REPRESENTATIVE				
Approved by (Signature)	Name (Printed/Typed)			Date 9 - 16-2
Title	Office			
Application approval does not warrant or certify the applicant he operations thereon. Conditions of approval, if any, are attached.	olds legal or equitable titl	e to those rights in the subject	lease which would entitle the a	oplicant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, States any false, fictitious or fraudulent statements or representations.	make it a crime for any p tions as to any matter wit	erson knowingly and willfully hin its jurisdiction.	to make to any department or a	gency of the United

Additional Operator Remarks (see next page)

Electronic Submission #13563 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

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

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

NMOCD

District II

PO Drawer KK, Artesia, NM 87211-0719

District III

1000 Rio Brazos Rd., Aztec, NM 87410

PO Box 2088, Santa Fe, NM 87504-2088

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

AMENDED REPORT

Fee Lease - 3 Copies

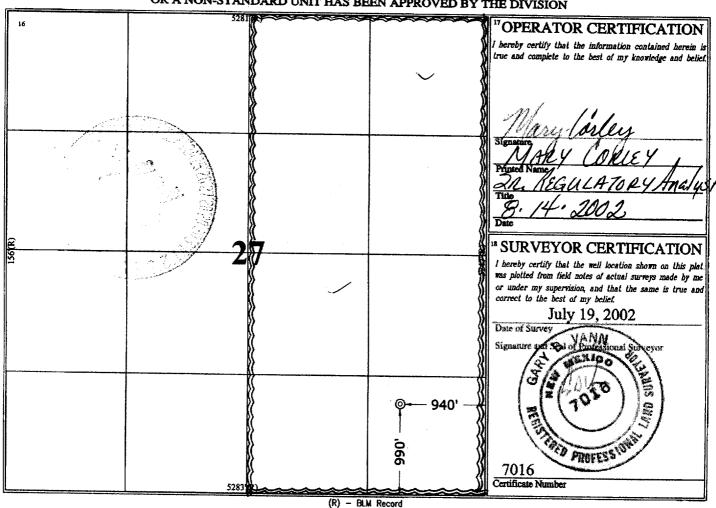
WELL LOCATION AND ACREAGE DEDICATION PLAT

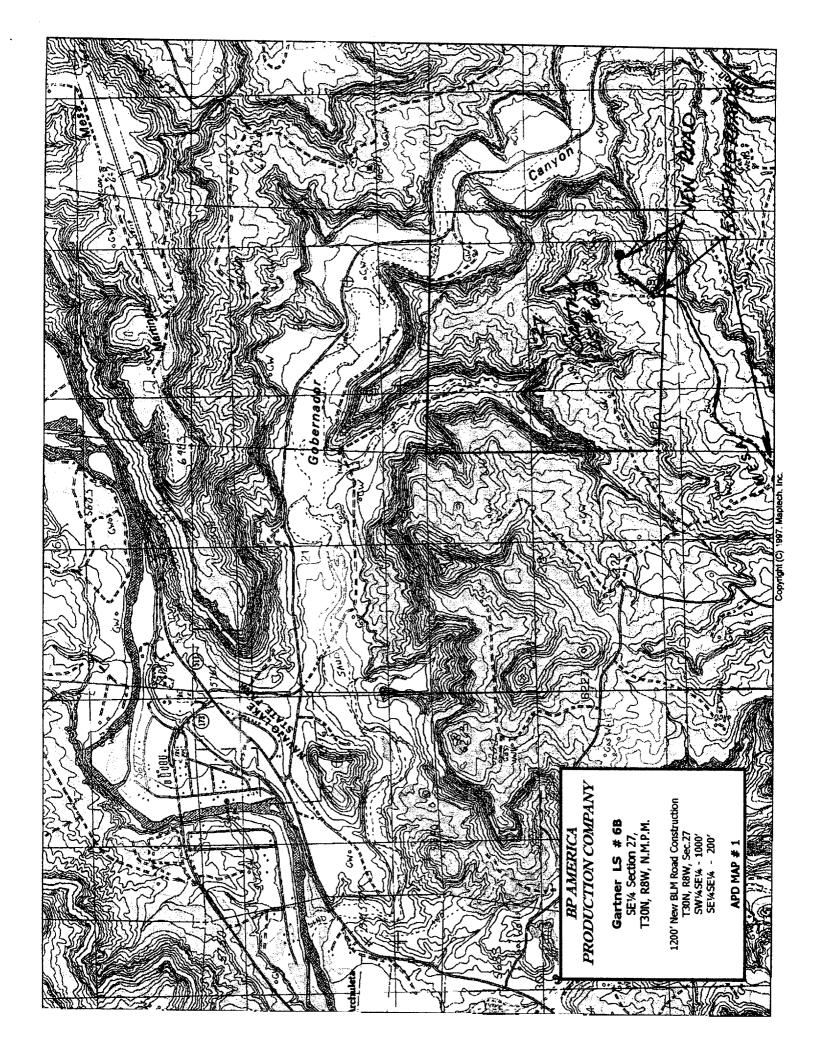
API Number	³ Pool Code	¹ Pool Name	
30-045-	31174 71599 1 72319		MESAVENDE
Property Code	3	Property Name	Weil Number
000591	Gartner LS		6M
1 OGRID No.		Operator Name	* Elevation
000178	BP AMERICA PROD	UCTION COMPANY	6238

Surface Location

P	27	30 N	8 W	Lot Idn	Peet from the 990	SOUTH	Feet from the 940	East/West line EAST	County SAN JUAN
p-1			Bott	om Hole	Location If	Different From	n Surface		
' UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Peer from the	East/West lime	County
Dedicated Acre	s ¹³ Join	t or intill "	Consolidatio	n Code 13	Order No.				

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION





BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Gartner LS

Lease: Gartner LS
County: San Juan

State: New Mexico
Date: July 26, 2002

Well No: 6M

Surface Location: 27-30N-08W, 990 FSL,940 FEL

Field: Blanco Mesaverde/Basin Dakota

OBJECTIVE: Drill 50' below	w the base of the Lower Cubero, set 4 1/2" pro-	duction casing, Stimulate C	H, MF, PL ar	nd DK in	ntervals		
	IOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER				
TYPE OF TOOLS	DEPTH OF DRILLING	Estimated GL			Estimated I		6252
Rotary	0 - TD	MARKER		SI	JBSEA	MEA	S. DEPTH
LC	OG PROGRAM	Ojo Alamo			4368		1884
		Kirtland			4197		2055
TYPE	DEPTH INVERAL	Fruitland Coal			3648		2604
OPEN HOLE		Pictured Cliffs	*		3238		3014
GR-Induction	TD to 7" shoe	Lewis Shale	#		3005		3247
Density/Neutron	TD to 7" shoe	Cliff House	#		1690		4562
		Menefee Shale	#		1345		4907
CASED HOLE		Point Lookout	#		1002		5250
GR-CCL-TDT	TDT – TD to 7" shoe	Mancos			689		5563
CBL	Identify 4 1/2" cement top	Greenhorn			-979		7231
		Bentonite Marker			-1029		7281
REMARKS:		Two Wells	#		-1090		7342
- Please report any flares (magnitude & duration).	Paguate	#		-1193		7445
		Upper Cubero	*		-1212		7465
		Lower Cubero	*		-1238		7490
		TOTAL DEPTH			-1288		7540
		# Probable compl	etion interv	al	* Possible	Pay	
SF	PECIAL TESTS	DRILL CUTTIN	G SAMPL	ES	DRILI	LING	TIME
TYPE		FREQUENCY	DEPTH		FREQUEN		DEPTH
None		none	Production 1	hole	Geolograph		0-TD
REMARKS:							

Approx	. Interval		Type Mud	Weight, #/ga	Vis, sec/qt	W/L cc's/30 min	Other Specification
0	- 200		Spud	8.6-9.2			
200	- 3347	(1)	Water/LSND	8.6-9.2		<6	
3347	- 7540	. ,	Gas/Air/N2/Mist	Volume suf	ficient to maint	tain a stable and clea	in wellbore

(1) The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.

Estimated Depth	Casing Size	Grade	sed. Hole size Weight		Landing Pt, Cmt, Etc.
200	9 5/8"	H-40 ST&C	32#	12.25"	1
3347	7"	J/K-55 ST&C	20#	8.75"	1,2
7540	4 1/2"	J-55	11.6#	6.25"	3
	Estimated Depth 200 3347	Estimated Casing Size Depth 200 9 5/8" 3347 7"	Estimated Casing Size Grade	Estimated Casing Size Grade Weight	Depth 200 9 5/8" H-40 ST&C 32# 12.25" 3347 7" J/K-55 ST&C 20# 8.75"

REMARKS:

- (1) Circulate Cement to Surface
- (2) Set casing 100' into Lewis Shale
- (3) Bring cement 100' above 7" shoe

CORING PROGRAM:

None

COMPLETION PROGRAM:

Rigless, 4-6 Stage Limited Entry Hydraulic Frac

GENERAL REMARKS:

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

Form 46 Reviewed by:		Logging program reviewed by:	N/A
PREPARED BY:	APPROVED:	DATE:	
		26 th July 2002	
HGJ/MNP		Version 1.0	
Form 46 12-00 MNP		· · · · · · · · · · · · · · · · · · ·	

BP America Production Company BOP Pressure Testing Requirements

Well Name: Gartner LS

County: San Juan

6M

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1884		
Kirtland	2055		
Fruitland Coal	2604		
PC	3014		
Lewis Shale	3247		
Cliff House	4562	500	0
Menefee Shale	4907		_
Point Lookout	5250	600	0
Mancos	5563		
Dakota	7445	2600	1391

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

Requested BOP Pressure Test Exception: 1500 psi

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 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,

Cementing Program

			···						
Well Name:	Gartner LS 6M				Field:	Blanco I	Mesave	rde / Basin Dakota	
Location:	27-30N-8W, 99	0 FSL,940 FE	L		API No.				
County:	San Juan				Well Flac				
State:	New Mexico				Formation:		MesaVe	erde	
					KB Elev (e	st)	6252		
					GL Elev. (est)	6238		
Casing Program	:								
Casing String	Est. Depth	Hole Size	Casing Size	Thread	TOC	Stage To	ool	Cmt Cir. Out	
	(ft.)	(in.)	(in.)		(ft.)	Or TOL		(bbl.)	
Surface	200	12.25	9.625	ST&C	Surface	NA	,	()	
Intermediate	3347	8.75	7	LT&C	Surface	NA			
Production -	7540	6.25	4.5	?	3247	NA			
Casing Propertie	98:	(No Safety	Factor Included)						
Casing String	Size	Weight	Grade	Burst	Collapse	Joint St.		Capacity Drift	
3 3	(in.)	(lb/ft)		(psi.)	(psi.)	(1000 lb		(bbl/ft.) (in.)	
Surface	9.62	• /	2 H-40	3370		1400	254	0.0787	8.845
Intermediate			0 K-55	3740		2270	234	0.0405	6.456
Production -	4.	_	.6 J-55	5350		4960	154	0.0155	3.875
			75-7-7-7					0.0100	3.073
Mud Program									
Apx. Interval	Mud Type	Mud Weigh	t			Properties Prio	Cemer	<u>nting:</u>	
(ft.)				PV	<20				
				YP	<10				
0 - SCP	Water/Spud	8.6-9		Fluid Los	s<15				
SCP - ICP	Water/LSND	8.6-9							
ICP - ICP2	Gas/Air Mist	N							
ICP2 - TD	LSND	8.6 - 9	2						
Cementing Progra	am:							***	
			Surface		Intermed	iate		Production	
Excess %, Lead			100		100			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	pumps and lir	ies.						
	Wash pumps	and lines.							
	3. Reverse out								
	4. Run Blend Te								
			d Density on 3.5"						
			pressurized mud						
			nent is not circular						
	8. If cement is n	ot circulated t	o surface, run ter	np. survey	10-12 hr. aft	er landing plug	•		
Notes:									
	*Do not wash up	on top of plu	ıg. Wa s h lines be	fore displac	ing producti	on cement job	to minm	nize drillout.	
Surface:									
Surrace:	Preflush		20 bbl.	FreshWa	ter				
	rendan		20 001.	TICSHVIA	101				
	Slurry 1	11	0 sx Class G Cer	ment				125 cuft	
	TOC@Surface		+ 2% CaCl2 (a						
			0.25 #/sk Cello	•	e (lost circul	ation additive\	•	0.3132 cuft/f	+ OH
			0.1% D46 antif		o (1001 oli oli l	anon additive)		0.0 (32 Call)	. 011
Slurry Properties:		Doneite	5.176 D40 allul			10/040=			
July Properties:		Density		Yield		Water			
	01 4	(lb/gal)		(ft3/sk)		(gal/sk)			
	Slurry 1	15.	В	1.16			4.95		

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

	Fresh Water	20 bl	ol	fresh water		
	Lead		320	sx Class "G" Cemen	t	831 cuft
	Slurry 1			+ 3% D79 extender		
	TOC@Surface			+ 2% S1 Calcium Ch	nloride	
				+1/4 #/sk. Cellophan		
				+ 0.1% D46 antifoam	•	
	Tail		60	sx 50/50 Class "G"/F	Poz	75 cuft
	Slurry 2			+ 2% gel (extender)		
	500) ft fill		0.1% D46 antifoam		0.1503 cuft/ft OH
				+1/4 #/sk. Cellophan	e Flake	0.1746 cuft/ft csg an
				+ 2% CaCl2 (acceler	rator)	
Slurry Propertie	es:	Density		Yield	Water	
		(lb/gal)		(ft3/sk)	(gal/sk)	
Slurry 1		11.4		2.61	17.77	
Slurry 2		13.5		1.27	5.72	
asing Equipm	nent:	7", 8R, ST&C				
		1 Float Collar (auto 1 Stop Ring 14 Centralizers (on			rv third collar)	
		2 Fluidmaster vane 1 Top Rubber Plug 1 Thread Lock Con	centalizers	-	,,,	
Production:			centalizers	-		
Production:	Fresh Water	1 Top Rubber Plug	centalizers	-		
Production:	Fresh Water Lead	1 Top Rubber Plug 1 Thread Lock Con	centalizers	@ base of Ojo		390 cuft
Production:	Lead	1 Top Rubber Plug 1 Thread Lock Con	centalizers npound	@ base of Ojo CW100 LiteCrete D961 / D12	24 / D154	390 cuft
Production:	Lead Slurry 1	1 Top Rubber Plug 1 Thread Lock Con 10 bb	centalizers npound	@ base of Ojo CW100 LiteCrete D961 / D12 + 0.03 gps D47 antifo	24 / D154 pam	390 cuft
Production:	Lead	1 Top Rubber Plug 1 Thread Lock Con 10 bb	centalizers npound	@ base of Ojo CW100 LiteCrete D961 / D12	24 / D154 pam	390 cuft
Production:	Lead Slurry 1	1 Top Rubber Plug 1 Thread Lock Con 10 bb	centalizers npound	@ base of Ojo CW100 LiteCrete D961 / D12 + 0.03 gps D47 antifo + 0.5% D112 fluid los + 0.11% D65 TIC	24 / D154 pam ss	
roduction:	Lead Slurry 1 TOC, 100' above Tail	1 Top Rubber Plug 1 Thread Lock Con 10 bb	centalizers npound 160	@ base of Ojo CW100 LiteCrete D961 / D12 + 0.03 gps D47 antifo + 0.5% D112 fluid los + 0.11% D65 TIC sx 50/50 Class "G"/P	24 / D154 pam ss	212 cuft
Production:	Lead Slurry 1 TOC, 100' above Tail Slurry 2	1 Top Rubber Plug 1 Thread Lock Con 10 bb	centalizers npound 160	@ base of Ojo CW100 LiteCrete D961 / D12 + 0.03 gps D47 antife + 0.5% D112 fluid los + 0.11% D65 TIC sx 50/50 Class "G"/P + 5% D20 gel (extend	24 / D154 parm ss Poz der)	212 cuft + 5 #/sk D24 gilsonite
Production:	Lead Slurry 1 TOC, 100' above Tail Slurry 2	1 Top Rubber Plug 1 Thread Lock Con 10 bb	centalizers npound 160	@ base of Ojo CW100 LiteCrete D961 / D12 + 0.03 gps D47 antife + 0.5% D112 fluid los + 0.11% D65 TIC sx 50/50 Class "G"/P + 5% D20 gel (extend + 0.1% D46 antifoam	24 / D154 parm ss Poz der)	212 cuft + 5 #/sk D24 gilsonite + 0.15% D65 TIC
Production:	Lead Slurry 1 TOC, 100' above Tail Slurry 2	1 Top Rubber Plug 1 Thread Lock Con 10 bb	centalizers npound 160	@ base of Ojo CW100 LiteCrete D961 / D12 + 0.03 gps D47 antife + 0.5% D112 fluid los + 0.11% D65 TIC sx 50/50 Class "G"/P + 5% D20 gel (extend	24 / D154 parm ss Poz der) ne Flake	212 cuft + 5 #/sk D24 gilsonite