UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

Lease Serial No.					
SF - 0800597	0	80	5	9	7

5.

APPLICATION FOR	PERMIT TO DRILL	OR REENTER
-----------------	-----------------	------------

6. If Indian, Allottee or Tribe Name la. Type of Work: **⊠** DRILL □ REENTER 7. If Unit or CA Agreement, Name and No. Lease Name and Well No. 1b. Type of Well: **GARTNER A 5M** Oil Well □ Other ☐ Single Zone Multiple Zone 2. Name of Operator Contact: MARY CORLEY API Well No. **BP AMERICA PRODUCTION COMPANY** E-Mail: corleyml@bp.com 30045 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory P.O. BOX 3092 Ph: 281.366.4491 BASIN DAKOTA/BLANCO MESAVER HOUSTON, TX 77253 Fx: 281.366.0700 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T., R., M., or Blk. and Survey or Area At surface SWSW Lot L 1945FSL 1150FWL 36.46900 N Lat, 107.40100 W Lon L Sec 27 T30N R8W Mer NMP At proposed prod. zone NESW Lot K 2500FSL 1980FWL 36.46900 N Lat, 107.40100 W Lon 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 22 MILES FROM BLOOMFIELD, NEW MEXICO 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 Lease 17. Spacing Unit dedicated to this well 1150 320.00 320.00 18. Distance from proposed location to nearest well, drilling 19. Proposed Depth 20. BLM/BIA Bond No. on file completed, applied for, on this lease, ft. *****500** THE RES 7515 MD WY2924 7398 TVD 21. Elevations (Show whether DF, KB, RT, GL, etc. 22. Approximate date work will start 23. Estimated duration 6142 GL 10/08/2002 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.

(Electronic Submission)

2. A Drilling Plan.

25. Signature

- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

Date

(Electronic Submission)	MARY CORLEY	08/15/2002
Title AUTHORIZED REPRESENTATIVE		CLD 1
Approved by (Signature) /s/ David J. Mankiewicz	Name (Printed/Typed)	Date - o?
Title AFM	Office F-FO	·
Application approval does not warrant or certify the applic operations thereon.	ant holds legal or equitable title to those rights in the subje	ct lease which would entitle the applicant to conduct

Name (Printed/Typed)

MARY CORLEY

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.

Additional Operator Remarks (see next page)

Electronic Submission #13577 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 REQUIREMENTS".

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

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

HOLD C104 FOR Directord Survey NMOCD and chause in States to 75R

District PO Box 1980, Hobbs NM 88241-1980
District II
PO Drawer KK, Artesia, NM 87211-0719

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office

District III
1000 Rio Brazos Rd., Axecc, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

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

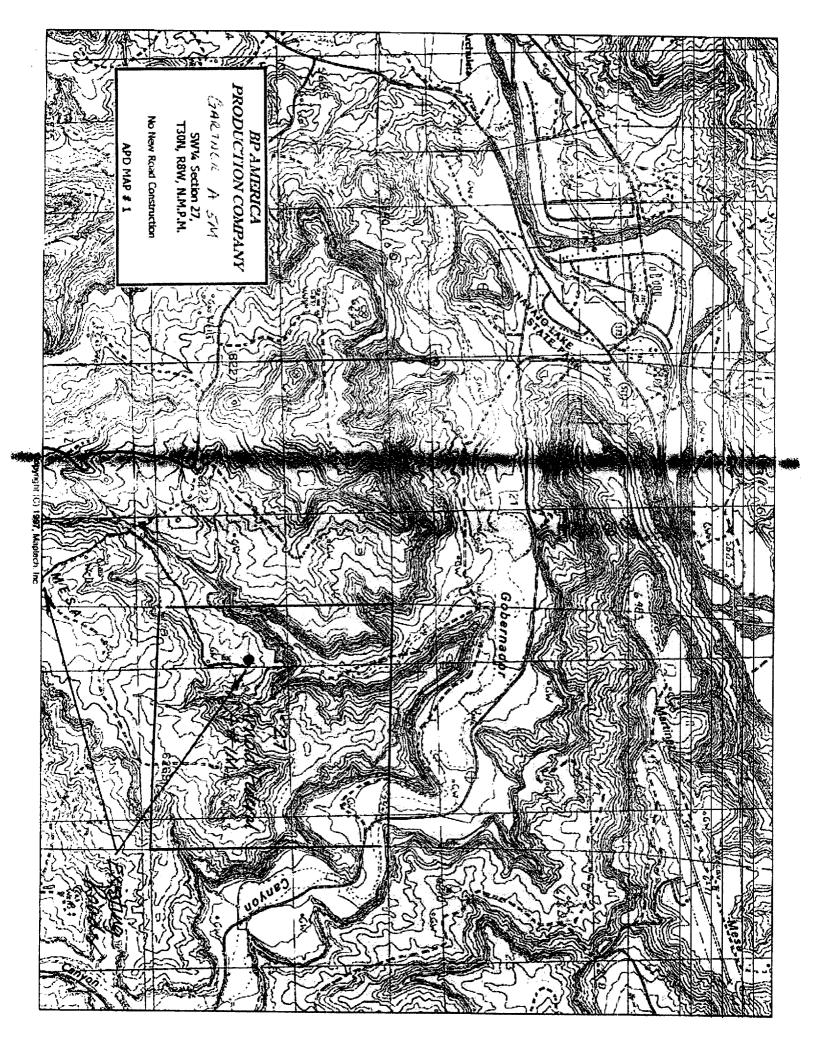
Fee Lease - 3 Copies

AMENDED REPORT

State Lease - 4 Copies

		WE	ELL LO	CATION	I AND A	ACR.	EAGE DEDIC	ATI	ON PL	ΑT		
122 11	API Number	3		Pool Cod					³ Pool	Name		
150 04 Property	<u>S-3</u>	(17/	715	59957	2319	Bi	951N DAKO	TA	B	LANCE	Ms	ESAVERDE-
0058			6.00	TNER	ا* اوس د	roperty	Name			***************************************		Well Number
OURID	No.		GIIIK	TIVER		perator						5M
0007	18	E	BP AMI	ERICA		-	TION COMPA	ANY	•	·	•	6142
							ocation	********	······		***************************************	
UL or Lot No.	Section	Township	Henge	Lot Ida	Feet from		North/South line	Fee	et from the	East West	line	County
L_L	27	30 N	8 W		194		SOUTH		1150	WE	ST	SAN JUAN
* UL or lot so.	Section	T	" Bott		Location	n If	Different Fron	n Su	rface		***************************************	
K	27	30 N	Range 8 W	Lox Idea	Feet from		North/South time		i from the	Easi/Wesi		County
Dodicated Acre		1	O YY Consolidation	n Code III	250 Order No.	V	SOUTH		1980	WE	ST	SAN JUAN
320		And the second of the second	Administration in									
NO KGO	VARIE:	WILL BE	VSS) (OINE	D TO THE	E COME		Menteral Land					
r:	•	OR A	NON-ST	ANDARD	UNIT HA	S BE	EN APPROVED	BY 7	THE DIV	ision	en eo	SOME VETTIES
)ju				528) (R)							CED	rification
{ }				S		•			i hereby se	rtify that the	informat	ion contained kernin le
 				X			• .		true and on	mplete to the	test of a	ny knovledge and belief.
 {{				S)								
 				X					14/1	/ /	7.	
 				\$					Illa	u lik	fin	× .
K S				X					Signature	7		
{ }				S I		187	333		Printed Na	14 10	RL	<u> </u>
} }				X	A S	t.,			5R.K	egula	four	Analyst
{ {}				S	•				Title	0,5	nd	71-14-75
} (X (. 4				Date	19.4	OUa	<u> </u>
<u> </u>				47				٩	7 GI 12 to	/EVAD	CEDT	IFICATION
e N			<u>A</u>	4/				-	I berets ce	rtify that the	mell local	ing shown on this about
} }	1		2500' F/S	(1980' F/	n WL			4	men plotted	trom tield anti	er el actua	il surveys mode by me the same is true and
)) })		Ázimuth - 5	6°43' 977	, {}					correct to	the best of m	y belief,	
}}				引					Date of Su	July 1	9, 200	02
)) ({ }					Signature :	nd Sequel D	oletriger	Curveyor
				3						CAR PA		4
}	io			X					1.	12/1	12	• N - ~ \ \
\	1945			K					13.5		116	SURVEYOR
<u>}</u>				SI					66187.57	1 1		/ <u> [</u> 5]
3}				∛					/3			Ha
}				SSI					7016	PRIFES	AROIS	·/
	\approx b	***		11 (R)		ı			Certificate I	Vermber	-	

(R) - BLM Record



BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Gartner A

Lease: Gartner A

State: New Mexico

Well No: 5M

Surface Location: 27-30N-08W, 1940 FSL,1150

FWL

County: San Juan

Field: Blanco Mesaverde/Basin Dakota Bottom Location: 27-30N08W, 1940FSL, 1980FWL

Date: August, 9, 2002

OBJECTIVE: Drill 50' below	w the base of the Lower Cubero, set 41/2" produ	iction casing, Stimulate L	S, CH, MF, PL and	DK intervals	
METH	OD OF DRILLING	APPROXIMAT			AI MARKER
TYPE OF TOOLS	DEPTH OF DRILLING	Estimated GI		Estimated	
Rotary	0 - TD	MARKER		TVD	MEAS. DEPTH
LC	OG PROGRAM	Ojo Alamo		1742	1783
		Kirtland		1956	2007
TYPE	DEPTH INVERAL	Fruitland Coal		2513	2589
OPEN HOLE		Pictured Cliffs	*	2922	3017
GR-Induction	TD to 7" shoe	Lewis Shale	#	3180	3288
Density/Neutron	TD to 7" shoe	Cliff House	#	4450	4567
04055		Menefee Shale	#	4790	4907
CASED HOLE		Point Lookout	#	5127	5244
GR-CCL-TDT	TDT – TD to 7" shoe	Mancos		5516	5633
CBL	Identify 4 1/2" cement top	Greenhorn		7106	7223
DE144 D160		Bentonite Marker		7156	7273
REMARKS:		Two Wells	#	7212	7329
- Please report any flares (n	nagnitude & duration).	Paguate	#	7293	7410
		Upper Cubero	*	7321	7438
	The state of the s	Lower Cubero	*	7348	7465
		** *TOTAL DEPTH		7398	7515
		# Probable compt		* Possible	
	ECIAL TESTS	DRILL CUTTIN	G SAMPLES	DRILI	ING TIME
TYPE		FREQUENCY	DEPTH	FREQUEN	
None		none	Production hole	Geolograph	0-TD
REMARKS:					

OGRAM:						
Interval		Type Mud	Weight, #/ga	Vis, sec/at	W/L cc's/30 min	Other Specification
- 200		Spud	8.6-9.2		1	
- 3392	(1)	Water/LSND	8.6-9.2		<6	
- 7515	_	Gas/Air/N2/Mist	Volume suff	ficient to maint	ain a stable and clea	an wellhore
	- 200 - 3392	nterval - 200 - 3392 (1) - 7515	nterval Type Mud - 200 Spud - 3392 (1) Water/LSND - 7515 Gas/Air/N2/Mist	nterval Type Mud Weight, #/ga - 200 Spud 8.6-9.2 - 3392 (1) Water/LSND 8.6-9.2 - 7515 Gas/Air/N2/Mist Volume suff	nterval Type Mud Weight, #/ga Vis, sec/qt - 200 Spud 8.6-9.2 - 3392 (1) Water/LSND 8.6-9.2 - 7515 Gas/Air/N2/Mist Volume sufficient to maint	Interval Type Mud Weight, #/ga Vis, sec/qt W/L cc's/30 min - 200 Spud 8.6-9.2 - 3392 (1) Water/LSND 8.6-9.2 <6

REMARKS:

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

		l and the second	casing sizes to be us	sed. Hole size	s will be governe	d by Contract)
	timated pth	Casing Size	Grade	Weight	Hole Size	Landing Pt, Cmt, Etc.
Surface/Conductor	200	9 5/8"	H-40 ST&C	32#	12.25"	1
Intermediate	3392	7"	J/K-55 ST&C	20#	8.75"	1.2
Production REMARKS:	<u>7515</u>	4 1/2"	J-55	11.6#	6.25"	3

- (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:	
HGJ/MNP		9 th August 2002 Version 1.0	
Form 46 12-00 MNP			

BP America Production Company BOP Pressure Testing Requirements

Well Name: Gartner A

County: San Juan

5M

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1742		
Kirtland	1956		
Fruitland Coal	2513		
PC	2922		
Lewis Shale	3180		
Cliff House	4450	500	0
Menefee Shale	4790		•
Point Lookout	5127	600	0
Mancos	5516		_
Dakota	7293	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, 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:	Gartner A 5M				Field:	Rlanco	Mesav	erde / Basin Da	akota
Location:		940 FSL, 1150	FWL		API No.	Dianco	····oav	Jasiii Di	anula
County:	San Juan				Well Flac				
State:	New Mexico				Formation	ı: Dakota	Macal	arda	
					KB Elev (6158		
					•	•			
					GL Elev. ((est)	6144	•	
Casing Program	n:								
Casing String	Est. Depth	Hole Size	Casing Size	Thread	TOC	Stage T	ool	Crnt Cir. Out	
	(ft.)	(in.)	(in.)		(ft.)	Or TOL		(bbl.)	
Surface	200	12.25	9.625	ST&C	Surface	NA NA	(14.7)	(0.51.)	
Intermediate	3392	8.75	7	LT&C	Surface	NA NA			
Production -	7515	6.25	4.5	?	3292	NA NA			
Casing Properti	es:		actor Included)	······					
Casing String	Size	Weight	Grade	Burst	Collapse	Joint St		Capacity	Drift
	(in.)	(lb/ft)	Ciado	(psi.)	(psi.)	(1000 lb		• •	
Surface	9.62		2 H-40	3370		•	•	(bbl/ft.)	(in.)
Intermediate	3.02) K-55			1400	254		8.8
Production -	4			3740		2270	234		
Froduction -	4	.5 11.6	3 J-55	5350		4960	154	0.0155	3.8
Mud Program									
Apx. Interval	Mud Type	Mud Weight		Dagamm	andad Mud	Description Date	0	- 41	
(ft.)	widd Type	widd weignt				Properties Price	Ceme	nung:	
	in the state of th	disario e e e e e disino e e e		PV	<20	. ai			
0-SCP	Water/Spud					in the same of the			e e e e e e e e e e e e e e e e e e e
SCP - ICP	•	8.6-9.2		Fluid Los	<15 .				* "
ICP - ICP2	Water/LSND	8.6-9.2							
ICP2 - TD	Gas/Air Mist	NA NA							
	LSND	8.6 - 9.2							
Cementing Progr	am: ·	•		•					
F			Surface		Intermed	diate	•	Production	
Excess %, Lead			100		75			40	
Excess %, Tail			NA		0			40	
BHST (est deg. F			75		120			183	
Special Instructio			1,6,7		1,6,8	3		2,4,6	
	1. Do not wash		s.						
	Wash pumps	and lines.							
	Reverse out								
•	4. Run Blend Te	est on Cement							
	Record Rate.	Pressure, and	Density on 3.5"	disk					
	Confirm dens	itometer with pr	ressurized mud s	scales					
	7. 1" cement to	surface if ceme	nt is not circulate	ed.					
	8. If cement is n				0-12 hr. aft	er landing plug.			
	<u> </u>								
Notes:		. —							
	*Do not wash up	on top of plug	. Wash lines befo	ore displaci	ng producti	on cement job t	o minm	ize drillout.	
Surface:	· · · · · · · · · · · · · · · · · · ·								
эипасе:	Dar Grand			_					
	Preflush		20 bbl.	FreshWate	er				
	Slurp, 1	440	Class C C						
	Slurry 1		sx Class G Cem					125	cutt
	TOC@Surface		+ 2% CaCl2 (ac						
			C.25 #/sk Cellop		(lost circula	ation additive)		0.3132	cuft/ft OH
			0.1% D46 antifo	am					
Slurry Properties:		Density		Yield		Water			
		(lb/gal)		(ft3/sk)		(gal/sk)			
	Slurry 1	15.8		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

	1	Thread Lock Compou	ind		
Intermediate:	Fresh Water	20 bbl	fresh water	·	
	Lead Slurry 1		290 sx Class "G" Cen		743 cuft
	TOC@Surface		+ 3% D79 extend + 2% S1 Calcium +1/4 #/sk. Cellopl	Chloride hane Flake	
	Tail Slurry 2		+ 0.1% D46 antifo 60 sx 50/50 Class "G + 2% gel (extende	6"/Poz	75 cuft
	500 ft i	ill	0.1% D46 antifoa +1/4 #/sk. Celloph + 2% CaCl2 (acc	nane Flake	0.1503 cuft/ft OH 0.1746 cuft/ft csg ar
Anna Steel Steel Water Steel Committee Steel			The second secon		
Slurry Properties Slurry 1		ensity /gal) 11,4	Yield (ft3/sk) · 2.61	Water (gal/sk)	
Slurry 2		13.5	1.27	17.77 5.72	
Casing Equipme	nt: 7",	8R, ST&C	•		
			h minimal LCM in mud) th minimal LCM in mud)		
	14 2 F 1 T	luidmaster vane centa op Rubber Plug	niddle of first joint, then e alizers @ base of Ojo	very third collar)	
Production:	1 T	hread Lock Compoun	d		
Troubellon.	Fresh Water	10 bbl	CW100		
	land				
	Slurry 1 TOC, 100' above 7" s	hoe	160 LiteCrete D961 / D + 0.03 gps D47 an + 0.5% D112 fluid	tifoam	394 cuft
	Tail		+ 0.11% D65 TIC 140 sx 50/50 Class "G"	'/Poz	199 cuft
	Slurry 2 1382 ft fil	I	+ 5% D20 gel (external + 0.1% D46 antifoa	ender)	+ 5 #/sk D24 gilsonite + 0.15% D65 TIC
			+ 1/4 #/sk. Celloph	ane Flake	+ 0.1% D800 retarder

0.1026 cuft/ft OH

Cementing Program

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
				5633
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			