

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
NMSF079511A

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

7. If Unit or CA/Agreement, Name and/or No.  
NMNM76058

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.  
GARTNER 2

2. Name of Operator  
BP AMERICA PRODUCTION CO.

Contact: CHERRY HLAVA  
E-Mail: hlavacl@bp.com

9. API Well No.  
30-045-23369-00-S1

3a. Address  
200 ENERGY COURT  
FARMINGTON, NM 87401

3b. Phone No. (include area code)  
Ph: 281-366-4081

10. Field and Pool, or Exploratory  
BLANCO PICTURED CLIFFS

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 29 T30N R8W SWNE 1450FNL 1520FEL  
36.78551 N Lat, 107.69470 W Lon

11. County or Parish, and State

SAN JUAN COUNTY, NM

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

August 2010 Compliance

Above mentioned well was completed in 1979 & has since produced 770 mmcf. Production began dropping off in 2005 to an inconsistent 10-20 mcf.

BP sees no further uphole potential for said well and respectfully requests permission to P&A the entire wellbore.

Please see the attached P&A procedure.

RCVD SEP 24 '10  
OIL CONS. DIV.  
DIST. 3

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #92941 verified by the BLM Well Information System  
For BP AMERICA PRODUCTION CO., sent to the Farmington  
Committed to AFMSS for processing by STEVE MASON on 09/20/2010 (10SXM0324SE)

Name (Printed/Typed) CHERRY HLAVA

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 09/16/2010

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By STEPHEN MASON

Title PETROLEUM ENGINEER

Date 09/20/2010

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Farmington

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.

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

NMOCD



## BP - San Juan Wellwork Procedure

### Gartner 2

#### General Information:

Formation:  
Project #:

Job Objective:  
Date:

P&A  
9/15/2010

Intervention Engineer: Trevor McClymont  
Base Management Engr:  
Production Team Leader  
Area Optimizer:

p. 281.366.1425  
p. 281.366.  
p. 505.326.

c. 701-770-6879

#### Well Information:

API Number: 30-045-23369-00  
BP WI:  
Run #:  
Lease FLAC:  
Well FLAC:  
Surface Location: Unit G - Sec 29 - T30N - R08W  
GPS Coordinates: lat 36.7855  
long 107.6953  
Meter #  
Cost Center:  
Compressed (Y/N): Y  
Restrictions: None  
Regulatory Agency: BLM / NMOCD

#### Production Data:

Tubing Pressure: 150 psig  
Casing Pressure: 250 psig  
Line Pressure: 120 psig  
Pre-rig Gas Rate: 0 mcf/d  
Anticipated Uplift: 0 mcf/d  
Water Rate: 0 bwpd  
CO2 (%): 0.87 %  
H2S (PPM): 0 ppm  
Gas BTU: 1178 BTU  
Specific Gravity: 0.6677  
Artificial Lift Type: Plunger  
Area Classification: LCO

#### Budget and Work Order Information

Rig Budget:		Total AFE Amount:	
P&C Budget:		Work Order #:	
Swabbing Budget:			

#### Basic Job Procedure:

##### A) KEY 142

1. Set 1-1/4" CW plug with downhole stop in tubing from B&R
2. POOH 1-1/4", tubing @ 2971'
3. Set CIBP @ 2865'
4. Pressure test 5-1/2" casing
5. Run CBL
6. R/D

##### B) Coil Tubing unit

7. Cement over Picture Cliffs and Fruitland 2865' to 2450'
8. Cement over Kirtland and Ojo Formations (1026' - 758') inside
9. Perf @ 240' and cement surface plug from 240 to surface inside and outside production casing

#### Well History:

**Safety and Operational Details:**

*ALL work shall comply with DWOP and E&P Defined Operating Practice.*

**Standard Site Preparations**

1. Perform pre-rig site inspection. Per Applicable documents, check for:

1. Size of Location	6. Wash (dikes requirements)	11. Landowner Issues
2. Gas Taps	7. Raptor nesting	12. Protection Barriers Needed
3. Other Wells	8. H2S	13. Critical Location
4. Other Operators	9. Wetlands	14. Anchors
5. Production Equipment,	10. Location of Pits	15. ID Wellhead

Allow 48 hours for One Call if earth pit is required.

2. Notify BLM and NMOCD 24 hours prior to performing the work.  
NMOCD: (505) 334-6178 (Kelly Roberts)  
BLM : (505) 599-8907 (Kevin Schneider) or Steve Mason (505) 599-6364
3. Identify wellhead for proper flange connections and BOP equipment.
4. Work with GCU through CoW and w/P&S to develop a plan to move or temporarily relocate equipment that prohibits well servicing/plugging objectives.
5. Notify landowners with gas taps on well.
6. Perform and second site visit after lines are marked to ensure all lines locations are clearly marked and that Planning & Scheduling has stripped equipment and set surface barricades as needed.
7. Properly lock out/tag out any remaining production equipment. Ensure all necessary production equipment is isolated (LOTO) including, but not limited to the meter run, automation, and separator, etc.

**Rig Procedure:**

8. Hold pre-job safety meeting and discuss JSA with everyone on location. JSA should cover: heavy lifts, pinch points, location hazards, pressure hazards, proper PPE and 8 golden rules of safety/IFF. Make sure everyone has preformed their LOTO and knows they have the right to stop the job.
9. Check and record casing pressure, intermediate, and Bradenhead pressures. Record all pressures into OPENWELLS. *Notify engineer if any BH pressure exists, or if there is any water or gas flow..* Check gas H2S content and treat if the concentration is > or equal to 10 ppm.
10. MIRU workover rig.
11. Insure double casing valves are installed. Spot and lay 2" line and tank to blow down well, record pressures while blowing well down if possible.
12. Move in WirE-Line unit, equipment and crew. Be sure to fill out necessary work orders. WirE-Line must perform LOTO and JSEA. RU unit with a lubricator and BOP.
13. Two barriers will need to set in order to break containment (B&R has CW plugs with downhole slip stops. Plugs will need to be set ~2495'. Each time the lubricated connection is broken, it will need to be pressure quick tested for 5 min and document in OPENWELLS. Contact engineering if these barriers cannot be used.
14. Blow down backside to flow back tank.
15. Nipple down Wellhead. NU BOPs and diversion spool with 2" outlets and 2" pipe to the flow back tank.

16. Pressure test BOPs to 200 psi on the low end & 500psi on high end. Monitor flowing casing pressure with gauge (with casing flowing to blow tank) throughout workover. Remove wellhead back pressure valve if used.
17. Pull tubing hanger and shut pipe rams and install stripping rubber.
18. POOH with 1-1/4" production tubing currently set @ 2,971' and lay down tubing.
19. RU E-Line unit with a lubricator.
20. RIH with gauge ring for 5-1/2" 15.5# K55 casing to top of perforations @ 2,913' to ensure wellbore is clear and CIBP will set.
21. RIH with 5-1/2" CIBP and set at 50' above top perforation (+/- 2,865')
22. RD E-Line
23. Load well with fluid and pressure test 5-1/2" casing to 500 psig and hold undisturbed at 500 psig for 30 minutes. This will confirm integrity of casing and is in line with DWOP Section 24.1 "Working with Pressure". Chart results and record passing test in OpenWells.
24. Relieve pressure to blow down tank and allow for sufficient time for air/gas to separate in well bore to assure accurate CBL readings.  
*\*Wait 24-48 to allow air/gas to separate from wellbore to ensure good CBL, if possible*
25. RU E-Line
26. Run CBL tool to confirm top of cement (TOC) and cement bond behind 5-1/2". Report TOC to Engineer and regulatory agency representatives.
27. RD E-Line unit.
28. RD rig Move off location

**Coil Procedure:**

29. Hold pre-job safety meeting and discuss all JSA's with all BP and third party personnel. The Pre-job safety meeting should cover: heavy lifts, pinch points, location hazards, pressure hazards, and proper PPE.
30. MIRU Coil-tubing unit
31. Under DWOP 15.5.1 a risk assessment must be conducted for use of coil tubing using threaded connection. That assessment is being coordinated by the Houston office and the following steps should be taken to mitigate risks:
  - i. Ensure sufficient kill fluid is available on location (72 bbl)
  - ii. Visually inspect threaded connections for damage or leaks
  - iii. Check vertical alignment of CT BOP stack and wellhead to minimize stress on wellhead connections
  - iv. Ensure extra fittings and connections are available and have been shop tested
  - v. Rig up kill line to BOP stack for well control in case of threaded connection failure.
32. Fully function and pressure test BOP's to 250-psi low-pressure test, 1000-psi high-pressure test. Dual flapper check valves should be run above BHA. If dual flapper check valves are not used a detailed and current assessment of risks, mitigations and contingency responses should be refer to, or a local standard operating practice.

33. RIH with coil-tubing to 2865' +/- and spot balanced cement plug of 415' (~11.1 bbls) of G-Class cement inside 5-1/2" casing from 2865' - 2450'. This will cover the Picture Cliff and Fruitland Coal.

Capacity of 5-1/2" : 0.1336 ft<sup>3</sup>/ft

Plug 2865' - 2450' → 415' + 50' excess → 62.2 ft<sup>3</sup>

34. POOH with coil to 1850'. Spot a density balanced cement plug of 250' (~7.1 bbls) from 1850' to 1600' inside 5-1/2" casing. This isolates the Ojo Alamo formation. POOH with coil. 1974 1688

Capacity of 5-1/2" : 0.1336 ft<sup>3</sup>/ft

Plug 1850' - 1600' → 250' + 50' excess → 40.8 ft<sup>3</sup>  
1974 - 1688

35. Move in wire line unit, equipment and crew. Be sure to fill out necessary work orders. Wire line must perform LOTO and JSA. RU unit with a lubricator with pump in sub that can accommodate perf gun.

→ Macinvento plug from 440' - 340'

36. RIH with perforating gun and perforate the 5-1/2" at 240 - 241'. (1.56" perforating guns with 6spf, 60° phasing charges)

37. POOH, rig down wire-Line

38. RU pump truck. Establish circulation with water. Once circulation is established, pump and circulate cement from 240' to surface behind 5-1/2" casing (~45.3 bbls). Pump additional cement from 240' to surface inside of casing (~5.7 bbls) This will place cement around the bottom of the 8-5/8" surface casing shoe to surface and both inside and behind the 5-1/2" casing.

Capacity of 5-1/2" x 7-7/8" -- 0.1733 ft<sup>3</sup>/ft OH

Plug 240' - 190' → 50' → 8.7 ft<sup>3</sup>

Capacity of 5-1/2" x 8 5/8" -- 0.1926 ft<sup>3</sup>/ft

Plug 190' - surface → 190' → 36.6 ft<sup>3</sup>

Capacity of 5-1/2" -- 0.1336 ft<sup>3</sup>/ft

Plug 240 - surface → 240' → 32.1 ft<sup>3</sup>

Total Plug → 68.4 ft<sup>3</sup>

*\*The cement volumes to place on the outside of the 5-1/2" are estimates; due to non-uniform OH more may be required to circulate cement to surface.*

27. Perform underground disturbance and hot work permits. Cut off tree.
28. If cement cannot be seen on all annulus and casing strings remedial cementing will be required from surface. Watch for cement fall back or seepage. All annulus and casings must be full of cement with no fall back prior to installing abandonment marker.
29. Install well marker and identification plate per regulatory requirements.  
BP American Production Co.  
GARTNER 002  
API 30-045-23369  
Unit letter G, Sec 29, T30N, R08W  
1450' FNL, 1520 FEL  
San Juan, NM  
Picture Cliffs Formation  
Federal Lease number: SF 079551-A  
P&A date - TBD

30. RD and release all equipment.

31. Ensure all reports are loaded into OpenWells. Print out summary of work and place in well file. Notify Sherri Bradshaw (505-326-9260) and Cherry Hlava (281-366-4081) of completed P&A

# Current Well Bore Diagram



GL: 6269'

## Gartner 2

Sec 29G, T30N, R8W

API # 30-045-23369

### History:

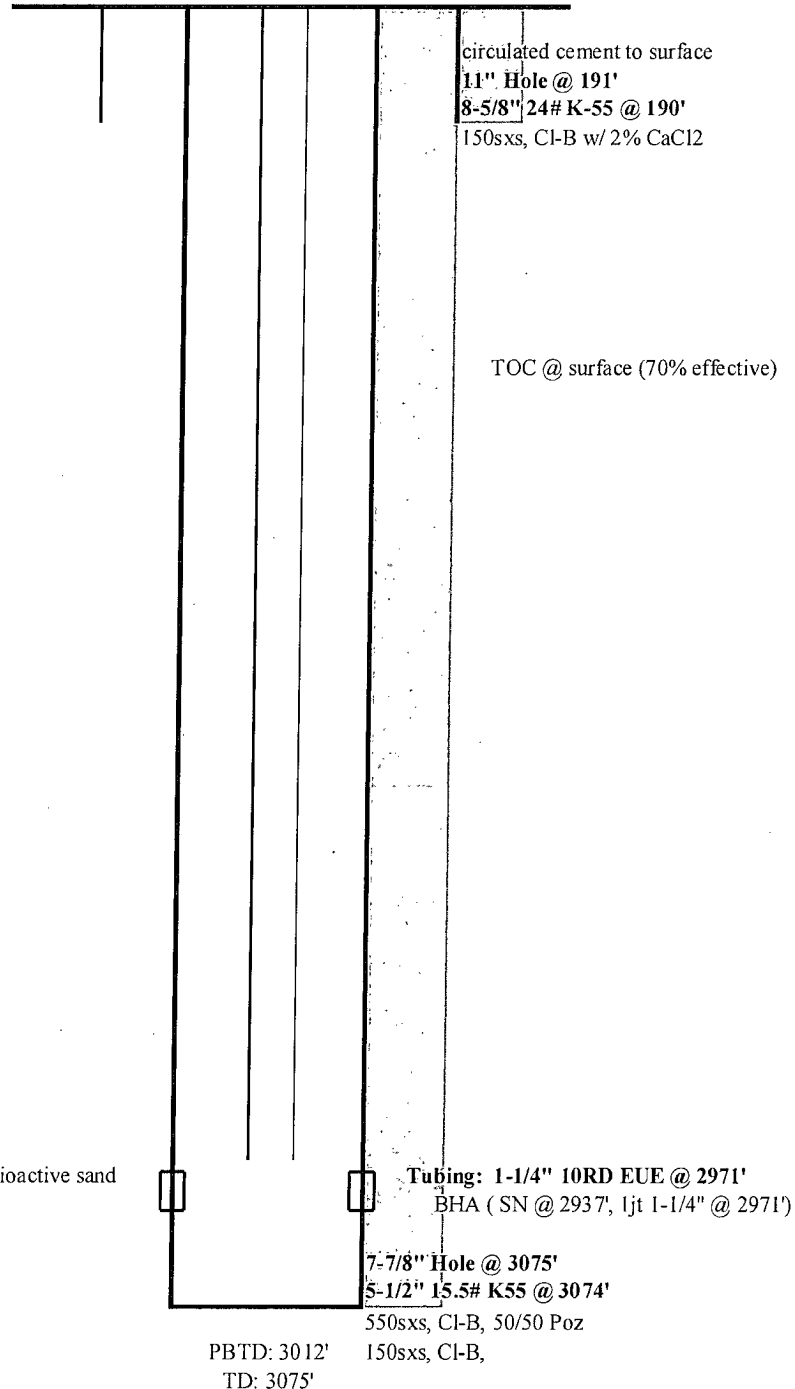
Completed in PC in 4/1979

### Formation tops

Ojo Alamo	1748
Frutiland	2555
PC	2908

### Pictured Cliffs Perforations:

2913-2974' 4spf frac'd w/30K Radioactive sand



# Proposed Well Bore Diagram



GL: 6269'

History:  
Completed in PC in 4/1979

**Top Plug**  
240' - Surface  
68.4 ft<sup>3</sup>  
12.2 bbls

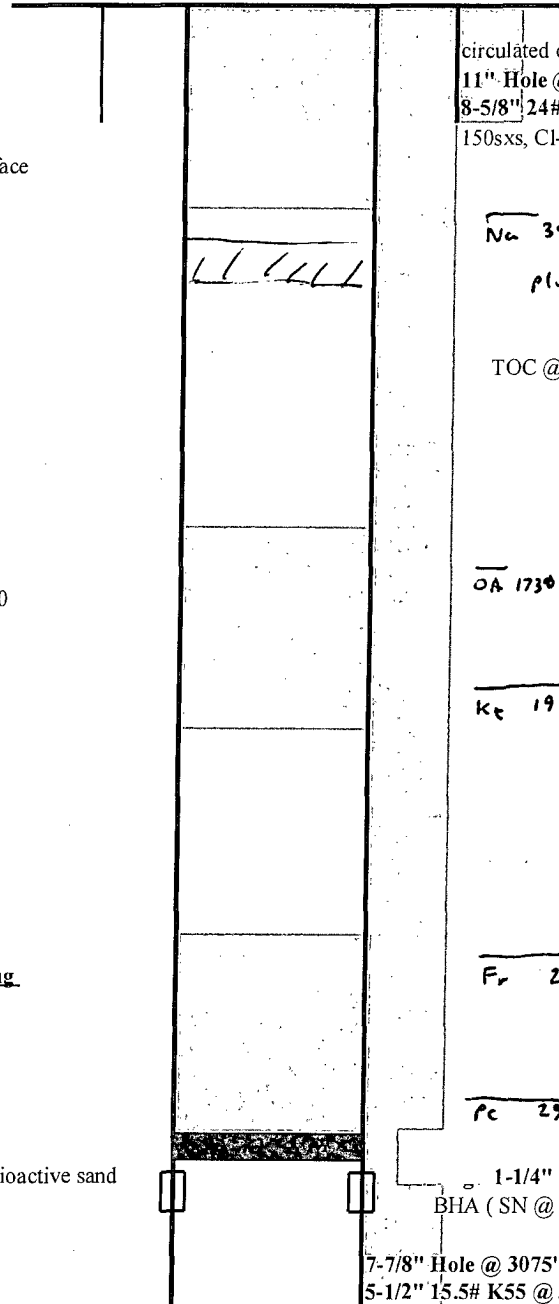
**2nd Plug**  
1850 - 1600  
40.8 ft<sup>3</sup>  
7.1 bbls

**Bottom Plug**  
2865 - 2450  
62.2 ft<sup>3</sup>  
11.1 bbls

Pictured Cliffs Perforations:  
2913-2974' 4spf frac'd w/30K Radioactive sand

## Gartner 2

Sec 29G, T30N, R8W  
API # 30-045-23369



circulated cement to surface

11" Hole @ 191'

8-5/8" 24# K-55 @ 190'

150sxs, CI-B w/ 2% CaCl<sub>2</sub>

Nc 390'

plug 940' - 390'

TOC @ surface (70% effective)

Formation tops

OA 1730	Ojo Alamo	1748
	Frutiland	2555
	PC	2908

Kc 1924

$1974 - 1638 / 2.483 = 44.6 \text{ ft}^3$

Fr 2559

$\text{plug } 2865 - 2450 / 2.483 = 54.3 \text{ ft}^3$

Pc 2910'

1-1/4" 10RD EUE @ 2971'

BHA (SN @ 2937', ljt 1-1/4" @ 2971')

7-7/8" Hole @ 3075'

5-1/2" 15.5# K55 @ 3074'

550sxs, CI-B, 50/50 Poz

150sxs, CI-B,

PBTD: 3012'

TD: 3075'

**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
FARMINGTON DISTRICT OFFICE  
1235 LA PLATA HIGHWAY  
FARMINGTON, NEW MEXICO 87401**

Attachment to notice of  
Intention to Abandon:

Re: Permanent Abandonment  
Well: 2 Gartner

**CONDITIONS OF APPROVAL**

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 599-8907.
3. The following modifications to your plugging program are to be made:
  - a) Place the Kirtland/Ojo Alamo plug from 1974' – 1688'.
  - b) Place the Nacimiento plug from 440' – 340'.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.