

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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.*

MAR 04 2009
Bureau of Land Management
Farmington Field Office

Lease Serial No.

I-149-IND-8470

Indian, Allottee or tribe Name

Allotted

SUBMIT IN TRIPLICATE – Other instructions on reverse side

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

1. Type of Well

☐

Oil Well

☒

Gas Well

☐

Other

8. Well Name and No.

GCU 320

2. Name of Operator

BP America Production Company Attn: Cherry Hlava

9. API Well No.

30-045-24732

3a. Address

P.O. Box 3092 Houston, TX 77253

3b. Phone No. (include area code)

281-366-4081

10. Field and Pool, or Exploratory Area

Pictured Cliffs

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

1850' FSL & 820' FEL Sec. 30 T28N, R12W NESE

11. County or Parish, State

San Juan, New Mexico

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

TYPE OF SUBMISSION

☒

Notice of Intent

☐

Subsequent Report

☐

Final Abandonment Notice

TYPE OF ACTION

☐

Acidize

☐

Deepen

☐

Production (Start/Resume)

☐

Water shut-Off

☐

Alter Casing

☐

Fracture Treat

☐

Reclamation

☐

Well Integrity

☐

Casing Repair

☐

New Construction

☐

Recomplete

☐

Other

☐

Change Plans

☒

Plug and Abandon

☐

Water Disposal

☐

Convert to Injection

☐

Plug Back

REC'D MAR 9 '09
OIL CONS. DIV.
DIST. 3

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 recomplete 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 recompletion 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.

April 2009 Compliance Well

Current Status - Well is shut in & unable to produce. Well cannot produce enough gas to run a compressor or the beam pumping unit. BP's Reservoir Engineer finds no up hole potential for the above mentioned well.

BP America respectfully requests permission to plug the entire wellbore. Please see attached P&A procedure.

14. I hereby certify that the foregoing is true and correct
Name (Printed/typed)

Cherry Hlava

Title **Regulatory Analyst**

Signature *Cherry Hlava*

Date **03/03/2009**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Original Signed: **Stephen Mason**

Approved by

Title

Date

MAR 06 2009

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

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.

NMCCD

**SJ Basin Plugging Procedure
Gallegos Canyon Unit 320
30-045-24732**

Date:	March 1, 2009	
Repair Type:	P & A	
Location:	T28N-R12W-Sec30	
County:	San Juan	
State:	New Mexico	Meter #: 93919
P/L:	Enterprise	Gat Sys: CHACO
Horizon:	PC	Engr: Nona Morgan
CO2%:	1.531%	ph (281)-366-6207
H2S:	None known	fax (281)-366-7836

Objective: Plug and Abandonment

1. TIH and pull out completion
 2. Cleanout wellbore
 3. Isolate wellbore to check casing integrity
 4. Run CBL of 4-1/2" casing & consult w/ NMOCD
 5. Set cement plugs to isolate intervals.
 6. Install markers.
 7. Rig down move out.
 8. Restore location.
-

Well History:

Spud date - 4/1981
Pump Change - 6/1999
Recomplete to Fruitland Coal - 2/1997
Squeeze FC and stimulate PC - 5/1998
Casing leak repair - 5/1998 - no subsequent report filed
Methanol Treat & Acidize - 7/2004
C/o Fill , Reland tubing, pump & rods - 1/2005
C/O Fill, change tubing, Methanol Treat. - 8/2006
Methanol Treat & Acidize - 3/2008

Work Guidelines NOTICE 1: *Perform all work per these guidelines and considerations.*

- Health, safety, and the environment are a top priority with BP San Juan South Asset and all work shall be done in accordance with Company Policies. Deviations from established BP Policies and Standards are provided for only by the DWOP Dispensation or MOC process.
- All work requires a Pre-work Safety Meeting / JSEA with all BP and service company personnel. The Pre-work Safety Meeting / JSEA should cover the work, personnel assignments, BP General Safety Rules, BP 8 Golden Rules, BP IIF work practices, permitted work, specific hazards and mitigations, emergency response plan, environmental issues and countermeasures, site security, PPE, etc.
- All personnel are empowered to Stop The Job at any time there is a potentially unsafe or perceived unsafe condition or process. For an Incident and Injury Free (IIF) workplace, all personnel are to take care of themselves and one another.

Procedure:

Preparations

Wellsite Preparations and Agency Notifications:

1. Notify the following Inspectors 48 hours before working on the well;

Charlie Perrin 505-334-6178 ext.11 or Kelly Roberts 505-334-6178 ext. 16 (NMOCD)
Steve Mason 505-599-6364 (BLM)
2. Perform pre-rig site inspection. Per Applicable documents, check for:
~~(1) size of location, (2) gas taps, (3) other wells, (4) other operators, (5) production~~
equipment, (6) wetlands, (7) wash (dikes requirements), (8) H2S, (9) barriers needed to protect
equipment, (10) landowner issues, (11) location of pits (buried or lines in pits), (12) raptor
nesting, (13) critical location, (14) check anchors, (15) ID wellhead, etc. Allow 48 hours for One
Call if earth pit is required.
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 land owners 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.

Initial Well Checks & Preparations:

8. Check gas H2S content and treat if the concentration is > or equal to 10 ppm/Treat
for H2S, if necessary per H2S Wells NOTICE.
9. MIRU workover rig. Conduct lifting JHA and fill out permit for removing the Horse's head.
Complete necessary paperwork and risk assessment.
10. Check and record tubing, casing and bradenhead pressures daily. Ensure production casing and
bradenhead valves are double valved. Double valve all casing strings. Check lock down pins on
hanger.
11. Pressure test tree and hanger to 200 psi above SITP. Make up 3" flowback line, if necessary and
blow down well. Kill with 2% KCL water or fresh water, as necessary. Check all casing strings to
ensure no pressure exist on any annulus.

TOH w/ Pump & Rods

12. Hang off polish rod on stuffing box and remove horses head.
13. Pump tubing capacity with 2% KCl water to load tubing. Test stroke pump to 500 psi if tubing will load. **Note:** If tubing will not load or goes on vacuum after loading, then hole in tubing or pump shoe problem is indicated.
14. Unseat pump. TOH Rods/Pump, inspect rods and pump for scale or wear. *Watch lower rods (near EOT) closely for signs of wear on guides and rods.

Completion Removal

15. RU slickline and set mechanical barriers plugs/bpv in tubing and tubing hanger or install "G" packoff. Blowdown and kill tubing and casing strings. RD slickline.

16. ~~Nipple-down-Wellhead. Reference "No-Dual-Barrier-in-Annulus-During-All-Well-Servicing"~~ dispensation. NU BOPs and diversion spool with 3" outlets and 3" pipe to the blow tank. Pressure test BOPs to 250 psi on the low end and on the high range at 1500 psi. Monitor flowing casing pressure with gauge (with casing flowing to blow tank), if available, throughout workover.
17. Install stripping rubber. Pull tubing hanger up to rubber and shut pipe rams. Bleed pressure above rams. Pull stripping rubber and hanger up to floor. Remove hanger and replace stripping rubber.
18. Open rams and TOOH w/ 2-3/8 production tubing currently set at 1348'. PBTD 1375' Use approved "Under Balance Well Control Tripping Procedure". Visually inspect tubing while POOH. *(It is acceptable to use the existing tubing as workstring, if it appears to have good integrity based on normal inspection procedures. - WSL's discretion.)*
19. TIH w/ bit & scraper for 4-1/2" casing to the top of the PC perms at 1301' and clean out.
20. RIH with 4- 1/2" CIBP on workstring and set at 1266'.
21. Load hole and circulate out any produced fluids. Pressure test wellbore to 500 psi for 15 minutes. Monitor bradenhead for indications of communication while this is being done.
22. RU slickline and run Schlumberger CBL for 4-1/2" casing from 1266' to surface. RD slickline. Report casing load, cement quality, and pressure test results, bradenhead pressure and bleed details, and TOC to the BLM, NMOCD, and Production Engineer.

Note: According to the well files, a Temperature survey was run in 4/1981 indicating the TOC was at 400'. Note 2: Have not been able to locate temperature survey on the NMOCD website.

Spot Plug Locations and Pump Cement to plug off Pictured Cliffs & Fruitland Coal intervals:

23. RIH with 2-3/8" open-ended workstring to 1266'. Spot 520' or ~40 sacks - (48 cu. Ft.) of G-Class cement on top of CIBP from 1266-746''. This will isolate the entire PCCF and FT Gas bearing productive intervals. WOC.
24. Based on 4-1/2" CBL forthcoming results, it will be determined if and where cement will be required behind casing to squeeze off the Pictured Cliffs Sandstone and Fruitland Coal productive intervals.

The next steps listed below assume the TOC behind the 4-1/2" casing is available in

sufficient quantities to surface to fully plug off the identified producing intervals from a depth of 1429' to surface. However, the order and detail of the next steps could change based on the casing pressure tests and CBL results. If necessary, a modified procedure that has been agreed upon by the NMOCD/BLM will be issued at that time to fully isolate and squeeze off any portion of the producing intervals where cement is found to be inadequate according to test reports. *The engineer should be consulted throughout the plugging and abandonment procedures. All CBL and pressure test results will be reported to the onsite NMOCD and BLM representatives.*

Set Cement Plugs to Isolate & Plug off Shallow Productive Zones: Kirkland & Ojo Alamo

25. RIH w/ 2-3/8" workstring and 4-1/2" cement retainer and set @ 420'.

26. RIH with 2-3/8" open-ended workstring to 420'. Spot 405' or ~33 sacks - (44 cu. Ft.) of G-Class cement on top of cement retainer from 405' to surface. This will isolate the wellbore from the entire Kirkland/Ojo Alamo horizon to surface.

27. Based on 4-1/2" CBL forthcoming results, it will be determined if and where additional cement will be required behind casing to meet regulatory requirements to squeeze off the Kirkland and Ojo Alamo intervals.

28. At this point however, it is being recommended to pump a cement plug behind pipe from 405' to surface. (Ability to pump will depend on results from current CBL run)

Note that a cement squeeze was performed in 05/1998 to stop a casing leak at 165'-195'

- a. Stab into cement retainer and squeeze 6.8 cu ft or 9 sacks of G-Class cement from top of retainer to the surface.
- b. POOH with work string and top off 4 - 1/2". This will fill the 4 - 1/2" casing from previously identified top of cement to surface. (provided the new CBL agrees)

Final Plugging and Abandonment steps:

29. After completion of the above described or modified cementing procedures, If cement cannot be seen on all annulus and casing strings after removing wellhead, remedial cementing at the surface will be required.

30. Install 4' well marker and identification plate per NMOCD requirements.

31. RU slickline to remove all mechanical barriers and plugs. RD slickline.

32. RD service rig and release all equipment. Remove all Wells Team LOTO equipment.

33. Ensure all well work details and well bore equipment report are entered in DIMS. Print DIMS summary of work and wellbore diagram and put in well file. Notify Sherri Bradshaw and Cherry Hlava of completed P&A for final regulatory agency reporting and database clearing.

34. Submit work request to Planning and Scheduling to prepare location for reclamation and reseeding.

Current Wellbore



Gallegos Canyon Unit 320
Pictured Cliffs
 API # 30-045-24732
 T-28N, R-12-W, Sec. 30
 San Juan County, New Mexico

G.L. 5631'
 K.B. 5633'

Workover History:

Spud date 4/1981

Pump Change 6/1999

Recomplete to Fruitland Coal 2/1997

Squeeze FC and stimulate PC 5/1998

Casing leak repair 5/1998 - no subsequent report filed

Methanol Treat & Acidize 7/2004

C/O Fill, Reland tubing, pump & rods - 1/2005

C/O Fill, change tubing, Methanol Treat. 8/2006

Methanol Treat & Acidize 3/2008

TOC behind 4 1/2" @ 400'
 (Temperature Survey - 04/1981)

FORMATION TOPS

Ojo Alamo:	NR'	Mancos:	NR
Kirkland:	118'	Gallup:	NR'
FT Coal:	799'	GRNR:	NR'
IGNA:	1193'	GRRS:	NR'
CAHN:	1273'	TWLS:	NR'
PCCF:	1291'	PGTE:	NR'
CLFH-E	NR	CBRO:	NR'
CLFH:	NR	L. CBRO:	NR'
MENF:	NR	ENCN:	NR'
PNLK:	NR	BRCN:	NR'
		MRSN:	NR'

Deviation Report

depth	deviation
1000'	2-1/4 deg
1440'	1-1/2 deg

9 7/8" Hole

7", 17.0#, H-40 @ 125'

Cmt w/ 65 sxs

(Good cement circulated to surface)

Casing Leak 165' - 195'

Sqzd-off w/ 1/2 sxs class B cmt (2 attempts)

Density 15.60 ppg, Tested to 500# (05/1998)

2 3/8", 4.7#, J-55, EUE

Tubing Detail:

Component	Length (ft)	Top (ft)
Tbg, 2 3/8" 4.7# J-55, 42 Jts	1323.46	10.00
Nipple, Profile "F", 1.78" ID, 1 Jt	0.95	1,333.46
Muleshoe, 2 3/8", 1 Jt	15.00	1,334.41
EOT		1,349.41

Rods Detail:

Component	Length (ft)	Top (ft)
Rods, Polished: 1.25" x 14'	14.00	0.00
Rods, Pony: 0.75" Grd. D, 2 Jts	14.00	14.00
Rods: 0.75" x 25" Grd. D, 52 Jts	1296.00	28.00
Pump, Rhac, 2.0" x 1.25"	9.00	1,324.00

Fruitland Coal Perforations (1997)

1276' - 1290', 4 JSPF

Sqzd-off w/ 50 sxs class B cmt (3/1998)

Density 15.60 ppg, Tested to 1,000# (05/1998)

Pictured Cliffs Perforations (1981)

1301' - 1312', 1 SPF } frac w/ 500 gals 1-1/2%
 Spearhead Acid, 30,000 gals
 70Q Foam and 30,000# 10/20
 sand (06/1981)
 (1998) } Re-perf (1301' - 1312') 2 SPF
 (1998) } Re-frac w/ 100 foam (236 bbls
 total vol. pumped and 52,500#
 16/30# sand (05/1998)
 (1998) } Stimulated w/ 2,500 gals 40%
 N2 Methanol (07/2004)

Reperforate intervals & stimulate (1998)

End of Production String @ 1349'
 (01/2005)

Mar-2008 ===== new PBTD : 1375
 PBTD: 1390'
 TD: 1440'

6 1/4" Hole

4 1/2", 10.5#, K-55 @ 1429'

Cmt w/ 200 sxs of 50-50 poz mix w/ 2% gel & 1/4#

celloflake /sx & 0.5% D-65

(No cement to surface)

Proposed PXA



Gallegos Canyon Unit 320
 Pictured Cliffs
 API # 30-045-24732
 T-28N, R-12-W, Sec. 30
 San Juan County, New Mexico

G.L. 5631' 400' cmt. plug across Kirkland
 K.B. 5633' & Ojo Alamo to surface

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 Pump Change 6/1999
 Recomplete to Fruitland Coal, 2/1997
 Squeeze FC and stimulate PC 5/1998
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TOC behind 4 1/2" @ 400'
 (Temperature Survey - 04/1981)

FORMATION TOPS

Ojo Alamo:	NR'	Mancos:	NR
Kirkland:	118'	Gallop: NR'	
FT Coal:	799'	GRNR:	NR'
IGNA:	1193'	GRRS:	NR'
CAHN:	1273'	TWLS:	NR'
PCCF:	1291'	PGTE:	NR'
CLFH-E	NR	CBRO:	NR'
CLFH:	NR	L. CBRO:	NR'
MENF:	NR	ENCN:	NR'
PNLK:	NR	BRCN:	NR'
		MRSN:	NR'

TOC @ 746'

CIBP set @ 1266'

Reperforate intervals & stimulate (1998)

Mar-2008 ===== new PBTD: 1375'
 PBTD: 1390'
 TD: 1440'

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depth	deviation
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9 7/8" Hole

7", 17.0#, H-40 @ 125'

Cmt w/ 65 sxs

(Good cement circulated to surface)

Casing Leak 165 - 195

Sqzd-off w/ 1/2 sxs class B cmt (2 attempts)
 Density 15.60 ppg, Tested to 500# (05/1998)

cement retainer set @ 420'

pump cement behind pipe to surface

Tubing Detail:

Component	Length (ft)	Top (ft)
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Rods: 0.75" x 25" Grd. D, 52 Jts	1296.00	28.00
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4 1/2", 10.5#, K-55 @ 1429'

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 celloflake /sx & 0.5% D-65
 (No cement to surface)