

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM 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.****SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMSF078905
2. Name of Operator BP AMERICA PRODUCTION CO		6. If Indian, Allottee or Tribe Name EASTERN NAVAJO
Contact: CHERRY HLAVA E-Mail: hlavacl@bp.com		7. If Unit or CA/Agreement, Name and/or No. NMNM78391C
3a. Address 200 ENERGY COURT FARMINGTON, NM 87401	3b. Phone No. (include area code) Ph: 281.366.4081	8. Well Name and No. GALLEGOS CANYON UNIT 159E
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  Sec 31 T28N R12W NWSW 1850FSL 0980FWL 36.61655 N Lat, 108.15762 W Lon		9. API Well No. 30-045-25717-00-S1
		10. Field and Pool, or Exploratory BASIN DAKOTA
		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 Well.

Due to no further uphole potentation in the above mentioned well and several cement sqz jobs BP respectfully requests permission to P&amp;A said well.

Please see attached plugging procedure.

RCVD DEC 6 '10  
OIL CONS. DIV.  
DIST. 3

14. I hereby certify that the foregoing is true and correct. Electronic Submission #98365 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 12/02/2010 (11SXM0880SE)	
Name (Printed/Typed) CHERRY HLAVA	Title AGENT
Signature (Electronic Submission)	Date 12/01/2010

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

Approved By STEPHEN MASON	Title PETROLEUM ENGINEER	Date 12/02/2010
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

## SJ Basin Well Work Procedure

Well Name: GCU 159E      API#: 30-045-25717  
Date: September 14, 2010  
Repair Type: P&A  
Location: Unit L-T28N-R12W-Sec31  
            1850 FNL & 980 FWL  
County: San Juan  
State: New Mexico  
Engr: David Wages      Ph: 281-366-7929      Cell: 406-231-4679  
BM Engr: Nona Morgan      Ph: 281-366-6207  
Prod. TL: Kenny Anderson      Ph: 505-326-9495

### Well Information:

API Number: 30-045-25717  
BP WI: 52.45%  
Run #: \_\_\_\_\_  
            Unit L-Sec 31-T28N-  
Surface Location: R12W  
Meter Number: 94910  
Well FLAC: \_\_\_\_\_  
Cost Center: \_\_\_\_\_  
Lease FLAC: \_\_\_\_\_  
Restrictions: Aug Compliance  
Regulatory Agency: BLM & OCD  
Compressed (Y/N): N

### Production Data:

Tubing Pressure: 5 psi  
Casing Pressure: 30 psi  
Line Pressure: 100 psi  
Pre-rig Gas Rate: 7 MCFD  
Anticipated Uplift: 83  
Water Rate: 1-2  
CO2 (%): 1.0369  
H2S (PPM): 0  
Gas BTU: 1183  
Artificial Lift Type: Plunger

### Budget and Work Order Information

Rig Budget: \_\_\_\_\_  
P&C Budget: \_\_\_\_\_  
Total AFE Amount: \_\_\_\_\_  
AFE #: \_\_\_\_\_

Objective: P&A for wellbore.

1. Ensure wellbore is clear of obstructions.
2. Pump cement plugs and remove wellhead.

### Well History:

Spud date 12/4/1983  
Well Repair 1/24/1992 - Bradenhead repair  
Well Repair 8/23/2006 - Repair casing leak

**Note:** Will use Class G neat cement to P&A this well.

**Procedure:**

1. Notify BLM and NMOCD 24 hours prior to beginning operations P&A process to ensure scheduling of personnel to witness CBL results and cement placement.  
(Note: This is a **BLM** regulated well)

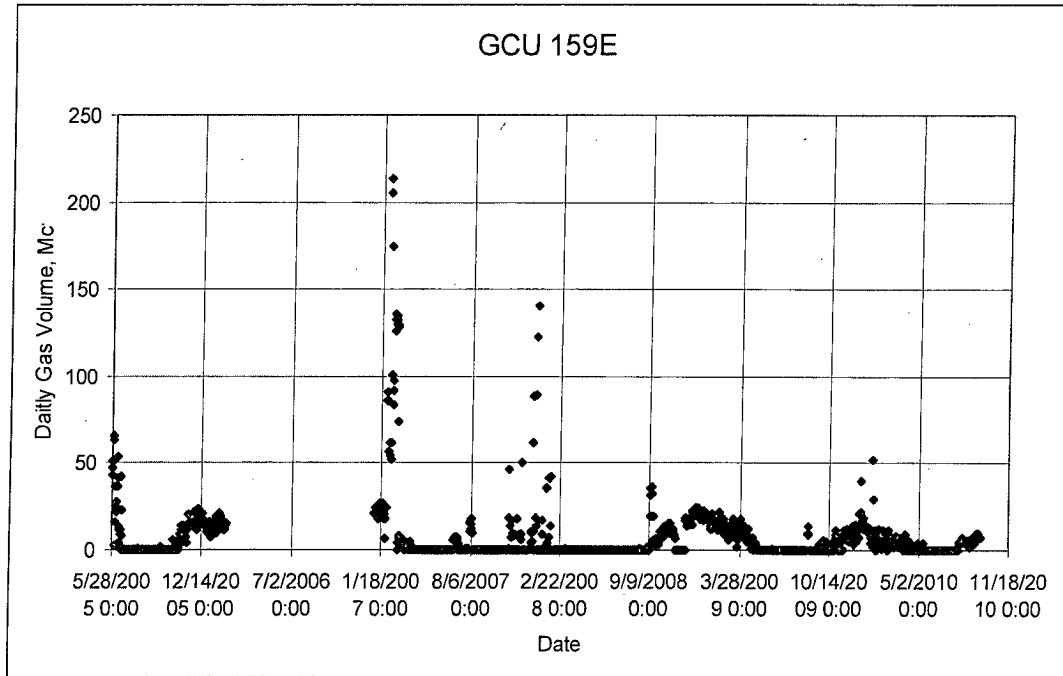
**NMOCD: (505) 334-6178 (Kelly Roberts)**

**BLM: (505) 599-8907 (Kevin Schneider)**

2. Move in and rig up service rig and equipment.
3. Blow down and kill well. Capacity of wellbore is approximately 100 bbls to PBTD. Check all casing strings to ensure no pressure exists on any annulus.
4. RU e-line. Run gauge ring for 4-1/2" casing (ID=4.052") down to top of perms to ensure wellbore is clear and CIBP will set. RIH w/ CIBP and set +/-50' above perforations +/- **5869'**.
5. Load well with fluid and pressure test casing to 500 psig. This will confirm the integrity of the casing and CIBP.
6. Run CBL to determine cement top behind 4-1/2". Based on cement top it will be determined where perforations and cement placement behind casing will be required to properly P&A well. Contact Engineer to discuss steps forward. Top of cement is estimated at surface based on well history. Report CBL results to regulatory agencies and engineer. **The order and detail of the next steps could change based on the CBL results but assumes cement does not cover the Ojo Alamo zone.**
7. Nipple down wellhead. NU and pressure test BOPs. Monitor flowing casing pressure with gauge (with casing flowing to blow tank) throughout workover. This is a P&A so the well should be kept dead throughout the procedure.
8. RIH w/ workstring and spot **1069'** (~17.1 bbls, 717 cu ft) plug on top of CIBP (+/- **5869'**). This should P&A the Dakota and Gallup formations from **5869'-4940'**. POOH.
9. Based on CBL results, RU wireline w/ perforated gun. RIH to +/- **2912'** and perforate 4-1/2" casing and POOH with guns. RD wireline.
10. If circulation to surface can be established, pump **789'** cement plug inside and outside production casing (**12.6 bbls, 530 cu ft inside, 64 bbls, 2649 cu ft outside** includes 100% excess).

11. If circulation cannot be established, RIH w/ workstring. Pump a 789' plug inside casing (12.6 bbl, 530 cu ft inside) from 2123'- 2912'. This should put cement across the MesaVerde and Chacra formations. POOH with workstring.
12. Based on CBL results, RU wireline w/ perforated gun. RIH to +/- 1385' and perforate 4-1/2" casing and POOH with guns. RD wireline.
13. If circulation to surface can be established, pump 485' cement plug inside and outside production casing (7.8 bbls, 325 cu ft inside, 39.4 bbls, 1653 cu ft outside includes 100% excess) from 900'-1385'.
14. If circulation cannot be established, RIH w/ workstring. Pump a 485' plug inside casing (7.8bbl, 325 cu ft inside) from 900' to 1385. This should put cement across the PC and FC formations. POOH with workstring.
15. RU wireline w/ perforating gun. RIH to +/- 550' and perforate 4-1/2" casing. POOH with guns and RD wireline.
16. Establish circulation behind casing to surface. Pump a cement plug behind and inside 4-1/2" casing from 550' to surface (~ 54 bbls). Pump excess cement as necessary.
17. Perform underground disturbance and hot work permits. Cut off tree.
18. 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.
19. Install well marker and identification plate per BLM requirements.
20. RD and release all equipment.
21. Ensure all reports are loaded into DIMS. Print out summary of work and place in well file. Notify Sherri Bradshaw of completed P&A.

Production curve



## Current Wellbore

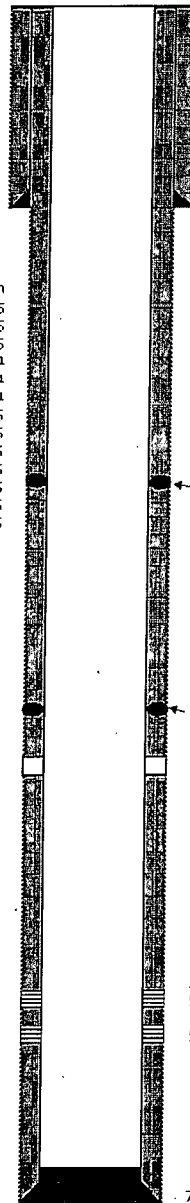


Gallegos Canyon Unit 159E  
Dakota  
API # 30-045-25737  
T-28N, R-12-W, Sec. 31  
San Juan County, New Mexico

G.L. 5728'  
K.B. 5741'

**Well History**  
Spud date 12/4/1983  
Well Repair 1/24/1992 - Bradenhead repair  
Well Repair 8/23/2006 - Repair casing leak

Formation Tops		Deviation Report	
Formation	Depth	Depth	Deviation
OJAM	380	330'	0.75
KTLD	509	881'	1.25
FTLD	1000	1395'	0.5
CAHN	1313	2174'	1
PCCF	1335	2712'	1
LWIS	1649	3229'	1
CHCR	2223	3775'	1.25
CLFH	2862	3992'	0.25
MENF	2892	4497'	0.5
PNLK	3782	4980'	0.75
MNCS	4090	5489'	0.75
GLLP	4940	5763'	1.25
SNST	5424	6091'	0.75
GRNR		5789	
GRRS		5851	
TWLS		5914	
PGTE		5968	
CBRO		6017	
ENCN		6058	
BRCN		6085	



5741' K.B

12 1/4" Hole  
8 5/8", 24.0#, J-55 @ 324'  
Cmt w/ 354 cu-ft class B cement containing 2% CaCl<sub>2</sub>  
(circulated cement to surface)

Hole found @ ~ 1398' - 1413'  
(collar leak @ 1408' identified & repaired 2006)

Hole found @ 3536' - 3567' leak @ 3540'  
9/12/2006-pres. Test csg to 550psi, bleed to 500 held for 10 min.

DV tool @ 4275'

### Dakota Perforations


5919' - 5924', 2 JSPF Frac w/ 91,000 gals 750  
foam, containing 20# gelled water, 2% KCL,  
5970' - 6012', 2 JSPF 1 gal surf./1000 gal fluid, 3120 SCFN<sub>2</sub> per BF  
and 175,000# 20/40 sand

7 7/8" Hole  
4 1/2", 10.5#, K-55 @ 6092'  
Stage 1: 524 cu-ft 50:50 POZ class B cement. Tailed w/ 118  
cu ft. class B neat cement.  
Stage 2: 1,773 cu ft. class B 65:35 Pozzolanic cement. Tailed w/ 118 cu ft  
class B neat cement.  
Cmt circ. to surface

PBTD: 6050'  
TD: 6092'

# Proposed P&A plug Set Program

bp



Gallegos Canyon Unit 159E  
Dakota

API # 30-045-25747  
T-28H, R-12-W, Sec. 31  
San Juan County, New Mexico

G.L. 5728' *Ojo Alamo 34'*  
K.B. 5741' *Kierland 154'*

Well History  
Spud date 12/4/1983  
Well Repair 1/24/1992 - Bradenhead repair  
Well Repair 8/23/2006 - Repair casing leak

Formation Tops	380 Depth	Deviation Report
OJAM	509 330'	0.75
KTLD	1000 881'	1.25
FTLD	1313 1395'	0.5
CAHN	1335 2174'	1
PCCF	1649 2712'	1
LWIS	2223 3229'	1
CHCK	2862 3775'	1.25
CLFH	2892 3992'	0.25
MEMF	3782 4497'	0.5
PNLK	4090 4980'	0.75
MHCS	4940 5489'	0.75
GLLP	5424 5763'	1.25
SHST	5789 6092'	0.75
GRHR	5852	
GRRS	5914	
FWLS	5968	
PGTE	6017	
CBRO	6058	
ENCN	6085	
BRCH		

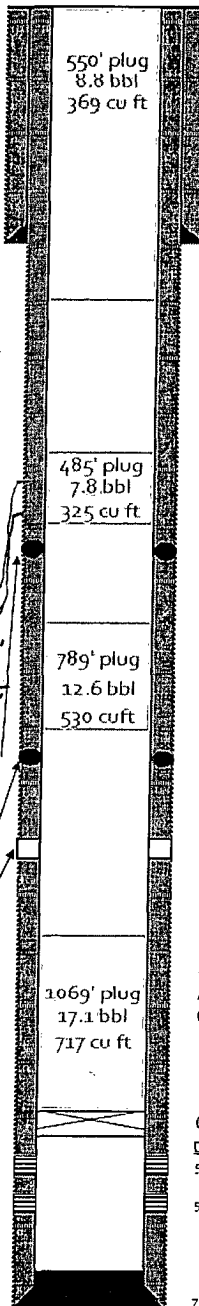
Hole found @ ~ 1398' - 1443'  
(collar leak @ 1408' identified & repaired 2006)

Hole found @ 3536' - 3567' leak @ 3540'  
9/12/2006-pres. Test csg to 550psi, bleed to 500 held for 10 min.

DV tool @ 4275'

Gallup 4940'

Dakota 5890'



5741' KB

Ojo Alamo plug  
surface-550'  
Outside: 44.6 bbl  
1874 cu ft

12 1/4" Hole  
8 5/8", 24.0#, J-55 @ 324'  
Cmt w/ 354 cu-ft class B cement containing 233 CaCl<sub>2</sub>  
Cmt circulated to surface

$$550 / 11.167 = 49 \text{ ft}^3$$

Pictured Cliffs and Fruitland Coal plug  
900'-1385'  
Outside: 39.4 bbl  
1653 cu ft

$$1385 - 900 / 11.167 = 43 \text{ ft}^3$$

Mesa Verde and Chacra plug  
2123'-2912'  
Outside: 64 bbl  
2649

$$2912 - 2123 / 11.167 = 71 \text{ ft}^3$$

Dakota and Gallup plug  
4800'-5869'  
Outside: 86.7 bbl  
3646 cu ft

$$5869 - 4840 / 11.167 = 92 \text{ ft}^3$$

CIBP @ 5869'

Dakota Perforations

5913' - 5924', 2 JSFP } Frac w/ 94,000 gals 750  
foam, containing 20# gelled water, 233 KCL,  
1 gal surf./1000 gal fluid, 3120 SCFH<sub>2</sub> per BF  
5970' - 6012', 2 JSFP } and 175,000# 20/40 sand

7 7/8" Hole  
4 1/2", 10.5#, K-55 @ 6092'  
Stage 1: 524 cu-ft 50:50 POZ class B cement. Tailed w/ 118  
cu ft. class B neat cement.  
Stage 2: 1,773 cu ft. class B 65:35 Pozzolan cement. Tailed w/ 118 cu ft.  
class B neat cement.  
Cmt circ. to surface