Form 3160-5 (August 2007)

INUTED STATES

| UNITEDSTATES | |
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| DEPARTMENT OF THE INTERIOR | |
| BUREAU OF LAND MANAGEMENT | |

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

Lease Serial No.

| SUNDRY NOTICES AND REPORTS ON WELLS | NMSF078316E |
|---|--------------------------------------|
| Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals. | 6. If Indian, Allottee or Tribe Name |

| | | |
|--|--|---|
| SUBMIT IN TRIPLICATE - Othe | r instructions on reverse side. | 7. If Unit or CA/Agreement, Name and/or No. NMNM73203 |
| Type of Well | | 8. Well Name and No. RIDDLE C LS 4 |
| | Contact: CHERRY HLAVA nlavacl@bp.com | 9. API Well No. 30-045-21271-00-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 L | Description) | 11. County or Parish, and State |
| Sec 31 T31N R9W SESW 0800FSL 0800FWL 36.85020 N Lat, 107.82413 W Lon | | SAN JUAN COUNTY, NM |
| 10 CHECK ADDRODDIATE DOX | ACCO TO DIDICATE MATURE OF MOTICE | C DEDONE ON OWIND DATA |

| 12. | CHECK . | APPROPRIA' | TE BOX(ES) TO |) INDICATE | NATURE OF NO | OTICE, REPORT | ', OR OTHER DATA |
|-----|---------|------------|---------------|------------|--------------|---------------|------------------|
|-----|---------|------------|---------------|------------|--------------|---------------|------------------|

| TYPE OF SUBMISSION | , | TYPE O | F ACTION | |
|---|--|---|---|---|
| ☑ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice | ☐ Acidize ☐ Alter Casing ☐ Casing Repair ☐ Change Plans ☐ Convert to Injection | ☐ Deepen ☐ Fracture Treat ☐ New Construction ☑ Plug and Abandon ☐ Plug Back | ☐ Production (Start/Resume) ☐ Reclamation ☐ Recomplete ☐ Temporarily Abandon ☐ Water Disposal | ☐ Water Shut-Off ☐ Well Integrity ☐ Other |

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.)

Due to the limited remaining reserves, inability of the well to produce at sustained economic rates and the lack of intervention options because of the slim hole completion BP respectfully request permission to P&A the entire wellbore.

Please see attached P&A procedure.

RCVD JUN 3'10 OIL CONS. DIV. DIST. 3

| 14. I hereby certify that t | he foregoing is true and correct. Electronic Submission #87183 verified For BP AMERICA PRODUCTIO Committed to AFMSS for processing by ST | N ĆO., | sent to the Farmington | | |
|--------------------------------|--|--------|------------------------|---|----------------|
| Name (Printed/Typed) | CHERRY HLAVA | Title | REGULATORY ANALYST | | |
| Signature | (Electronic Submission) | Date | 06/01/2010 | · | |
| | THIS SPACE FOR FEDERA | AL OR | STATE OFFICE USE | | |
| Approved By STEPHE | N MASON | TitleF | PETROLEUM ENGINEER | | Date 06/01/201 |
| certify that the applicant hol | ny, are attached. Approval of this notice does not warrant or ds legal or equitable title to those rights in the subject lease licant to conduct operations thereon. | Office | Farmington | | |

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



BP - San Juan P&A Procedure

Riddle C LS #4 P&A wellbore

| Gene | ral Infor | mation: |
|------|-----------|---------|
| | | |

| Formation: Project #: | PC | Job Objective: Date: May 2010 | P&A Wellbore |
|--------------------------|----------------|----------------------------------|------------------------|
| Engineer: | Mike Morgan | p. 281.366.5721 | c. 281.610.8821 |
| Production Contact: | Rocky Deromedi | p. 505.326.9471 | c. 505.486.0942 |
| Optimizer: | Mike Mcmahen | p. 505.326.9231 | |
| Backup Engineer: | Anne Hansford | p. 281.366.8691 | c. 713.540.3386 |

Well Information:

Production Data:

| API Number: | 30-045-21271 | Tubing Pressure: | No tubing |
|--------------------|-------------------|-----------------------|------------|
| BP WI: | | Casing Pressure: | 100 psi |
| Run #: | | Line Pressure: | 100 psi |
| | Unit N - Sec 31 - | - | |
| Surface Location: | T31N - R09W | Pre-rig Gas Rate: | 0 |
| Meter Number: | 87760 | Anticipated Uplift: | 0 |
| Well FLAC: | | Water Rate: | 0 |
| Cost Center: | | CO2 (%): | 1.13 |
| Lease FLAC: | | H2S (PPM): | 0 |
| Restrictions: | none | Gas BTU: | 1152 (Dry) |
| Regulatory Agency: | BLM/NMOCD | Artificial Lift Type: | None |
| Compressed (Y/N): | N | | |

Basic Job Procedure:

- 1. Ensure wellbore is clear of obstructions
- 2. Ensure sufficient cement bond behind casing
- 3. Pump cement plugs
- 4. Remove wellhead

Safety and Operational Details:

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

Well History:

Well was drilled by El Paso Natural Gas Company in 1973 and is known as a "slimhole" completion. This indicates a well with 2 7/8" casing that is perforated and produced with no tubing in the hole. The well was fracture treated with 28,000 pounds of sand. Production rates have declined slowly over the years and now have dropped to zero. The well is no longer economical to continue to produce due to low pressure and inability to economically artificially lift the well.

Standard Location Work:

1. **Notify NMOCD 24 hours prior** to beginning operations P&A process to ensure scheduling of personnel to witness CBL results and cement placement.

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

- 2. Perform pre-rig site inspection, size of location, gas taps, other wells, other operators, running equipment, wetlands, wash, H2S barriers if needed for equipment. Landowner issues, buried lines in pits, raptor nesting, critical location, check anchors. Check ID wellhead, determine if equipment is acceptable or obsolete and replace if necessary, if digging is required have One Call made 48 hours. Follow ground disturbance policy.
- 3. Perform second site visit, checking anchors and barriers if needed. Ensure lines are marked so that they clearly designate pit locations. Discuss and turnover handover sheet with someone from operations team and wells team. LOTO all necessary equipment including but not limited to: meter run, automation, separator, and water line.

Rig Procedure:

- 4. 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/IIF. Make sure everyone has preformed their LOTO and knows they have the right to stop the job.
- 5. Check and record casing pressure, intermediate, and Bradenhead pressures. Record all pressures into DIMS. <u>Notify engineer if Bradenhead pressures exist</u>. Check gas H2S content and treat if the concentration is > or equal to 10 ppm.
- 6. MIRU Service rig and equipment.
- 7. Make certain double casing valves are installed. Spot and lay 3" line and tank. Blow down well to blow down tank that has at minimum twice the capacity of the wellbore. Well bore capacity is equal to 27 barrels. Need 55 barrel blow down tank as a minimum.
- 8. Ensure no gauge pressure on wellhead.
- Move in Wireline unit, equipment and crew. Be sure to fill out necessary work orders.
 Wireline must perform LOTO and JSA. RU unit with wireline lubricator and BOP. Pressure
 test lubricator and BOP to 250 psi for 5 minutes and 500 psi full test. Chart results and
 record passing test in DIMS.
- 10. RU e-line. Run gauge ring down to top of perforation to ensure wellbore is clear and CIBP will set.
- 11. RIH with CIBP and set 40' above perforations +/- 3130'. RIH with second CIBP and set 50' above perforation +/- 3120'. This will ensure two mechanical pressure barriers.
- 12. Load well with fluid and pressure test casing to 250 psig for 5 minutes. Pressure test to 500 psig and hold undisturbed at 500 psig for 30 minutes. This will confirm integrity of tubing and is in line with DWOP Section 24.1 "Working with Pressure". Chart results and record passing test in DIMS. Relieve pressure to blow down tank and allow for sufficient time for air/gas to separate in well bore to assure accurate CBL readings.
- 13. Run CBL tool to confirm top of cement (TOC). Report TOC to Engineer and regulatory

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The order and detail of next steps are subject to change based on results of CBL. Procedure assumes Ojo Alamo Zone is sufficiently covered by cement.

- 14. ND wellhead, NU BOP and pressure test to 250 psi for 5 min and 500 psi full test. Chart results and record passing test in DIMS.
- 15. RIH with 1 1/4" work string and spot a density balanced cement plug of 400 ' (~2 Barrels) on top of PBTD (+/- 3259'). This will plug and abandon formation Pictured Cliffs and Fruitland
- 16. POOH with workstring to 2050 '. Spot a density balanced cement plug of 300' (~1.6 bbls) from 1750' to 2050' inside 2 7/8" casing. This isolates the Ojo Alamo and Kirtland formations. POOH with work string.

 Plus Nacimient from 552'-452' Castle Lourside 21/1" castle
- 17. NU wireline with perforating gun. Run in hole to +/-25' and perforate 2 7/8" intermediate casing. POOH with wireline. ND wireline.
- 18. Establish circulation from 2 7/8" intermediate casing to 8 5/8" surface casing back to surface.
- 19. Pump cement behind 2 7/8" intermediate casing from + 5 ' to surface. Approximately 5 barrels.
- 20. Perform underground disturbance and hot work permits. Cut off tree.
- 21. 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.
- 22. Install well marker and identification plate per regulatory requirements.
- 23. RD and release all equipment.
- 24. Ensure all reports are loaded into DIMS. Print out summary of work and place in well file. Notify Cherry Hlava of completed P&A.

Before PXA

| | | | bp | |
|-----------------|-------------------|-------|----------------------|--|
| WELL NAME: | Riddle C LS4 | | | SPUD DATE: 05/02/73 |
| LOCATION: | 800' FSL 800' FWL | | MAN PARTY | RIG REL: |
| SEC/TWN/RNG | | R9W | | COMP DATE: 06/01/73 |
| 1 | San Juan Co., NM | 10 11 | | COMI DATA. CONTINA |
| WELL TYPE: | | | | FORMATION: Pictured Cliffs |
| BP WI: | 29.7% NRI: | 21.5% | | API#: 30-045-21271 |
| <i>bi</i> **1. | BCPD BWPD | MCFD | | A11#. 30-043-212/1 |
| PC IP | BCID BWID | 1,480 | | Riddle C LS4 |
| | | Γ | | |
| SURFACE CASI | NG DESIGN | | 2.14 5.45 4.14 | GL 6442' |
| 8 5/8" | | 1 | | КВ |
| | K-55 24#/ft | | | |
| | | ' | n in | |
| | | | * | |
| SET @ | 127' | | 100 | The state of the s |
| 1st Stg CEMENT | 107 cu ft cement | | | |
| TAIL IN W/ | | | | KB |
| тос | Surface | 1 | - | 8 5/8" 24# K-55 set at 127' |
| Det. By | Ciculated | | | CMT circulated to surface |
| | | ļ | | |
| | | | | |
| PRODUCTION C | CASING DESIGN | ļ | | |
| 2 7/8" | | | : | Ma. 1914 |
| <u> </u> | J-55 6 4# | | | |
| ļ | | | i | Ojo Alamo |
| SET @ | 3269' | i | | Top @ 1828' |
| CEMENT W/ | 436 cu ft cement | 1 | | Btm @ 1980' |
| Comment with | 750 du 1t comont | | | |
| TAIL IN W/ | | | | |
| CMT TOP @ | 1720' | | 3 | |
| DETER. BY | | | | |
| | | - 1 | 1 | |
| | | | 1 | |
| | • | ł | į | Ojo Alamo FT coal Top @ 2860' |
| | | | 3 | |
| PERF. DATA: | SPF FORM. | | 446 | |
| 3172' - 3192' | 24 holes PC | | | (7) y |
| 3202 - 3210 | 24 holes PC | | | FT Coal |
| | | | | Top @ 2860' |
| | | | | Btm @ 2963' |
| | | | | |
| | | | | 1000 |
| | | , | 1 | |
| TUBING DATA | | 1 | | |
| N/A | | | April 1 | PC |
| | | 1 | 1 | PC 3172' - 3210' |
| cer o | | | Ī | (a) |
| SET @ PACKER | | | 77 | 2 7/8" 6 4# J-55 set @ 3269' |
| | | | 20 | and all language library libra |
| S.N ID / @ | | L | | PBTD @2359' TOC @ 1720' (CBL) |
| • | | Fl | RAC JOB: (1) | - PC -28,000 gal H2O w/ 28,000# 10/20 sand Drop 24 balls |
| Deviation | | _ | | |
| Feet | Degrees | | | |
| 522 | 0 25 | | | , |
| 926 | 0.5 | | | |
| 1714 | 0 5 | - | | |
| 2400 | 0.75 | NO | OTES: Slin | nhole completion |
| 2982 | 1 | _ | | |
| | | | | |

AFTER PXA

| SET @ 127' | Cement Plug 28 to surface 177/30-771 (1.14) = 5 11 (50/4.9 159 (1.14) = 7 41 127/3.2 (1.14) = 34 34 55 set at 127 |
|--|--|
| WELL TYPE: Gas FORMATION: Pictured Clif | Cement Plug 28 to surface 177/30-771 (1.18) = 5 x(50/4.9 159 (1.18) = 7 x(122/ 3.2 (1.18) = 34 x(46 x(14 34 x(14 34 x(15 34 x(16 x(|
| BP WI: 29.7% NRI: 21.5% BCPD BWPD MCFD PC IP 1,480 SURFACE CASING DESIGN 8.5/8" K-55 24#/ft | Cement Plug 28 to surface 177/30-771 (1.18) = 5 x(50/4.9 159 (1.18) = 7 x(122/ 3.2 (1.18) = 34 x(46 x(14 34 x(14 34 x(15 34 x(16 x(|
| BCPD BWPD MCFD 1,480 Riddle C LS4 | Cement Plug 25 to surface 177/30-771 (1.15) = 5 x(50/4.9 159 (1.15) = 7 x(122/ 5.2 (1.16) = 34 x(46 x(14 34 x(14 34 x(15 34 x(16 x(|
| PC P | Cement Plug 177/30.771 (1.44) = 5 MC 50/4.9 /59 (1.14) = 7 M 127/ 3.2 (1.14) = 34 M 26 Sylvania Control 128 34 Sylvania Control 129 34 Sylva |
| SURFACE CASING DESIGN 8 5/8" K-55 24#/ft | Cement Plug 177/30.771 (1.44) = 5 MC 50/4.9 /59 (1.14) = 7 M 127/ 3.2 (1.14) = 34 M 26 Sylvania Control 128 34 Sylvania Control 129 34 Sylva |
| SET @ 127' | Cement Plug 177/30.771 (1.44) = 5 MC 50/4.9 /59 (1.14) = 7 M 127/ 3.2 (1.14) = 34 M 26 Sylvania Control 128 34 Sylvania Control 129 34 Sylva |
| SET @ 127' | Cement Plug 177/30:771 (1.44) = 5 MC 50/4.9 59 (1.14) = 7 M 127/ 3.2 (1.14) = 34 M 26 Section 127 ed to surface 18 34 Section 24: 34 |
| SET @ 127' | 78 to surface 177/30:771 (1.14) = 5 mc 50/4.9 151 (1.14) = 7 m 127/3.2 (1.14) = 34 m 55 set at 127 ed to surface 1e 34 sm outcide |
| SET @ 127' | 177/30-771 (1.14) = 5 KC 50/4.9 159 (1.14) = 7 A 127/3-2 (1.18) = 34 3v 55 set at 127' ed to surface 1e 34sm outcide |
| Ist Stg CEMENT | 50/4.9 59 (1.18) = 7 sq. 34 sq. 55 set at 127' ed to surface 46 sq. 46 sq. 46 sq. |
| TOC Surface Det. By Ciculated PRODUCTION CASING DESIGN 2 7/8" J-55 6 4# SET @ 3269' CEMENT W/ 436 cu ft cement TAIL IN W/ CMT TOP @ 1720' DETER. BY PERF. DATA: SPF FORM. 3172' - 3192' 24 holes PC 3202 - 3210 24 holes PC Top @ 2860' FF 2820 FF Coal Top @ 2860' | 55 set at 127' ed to surface Je 34shr outriJe |
| TOC Surface Det. By Ciculated PRODUCTION CASING DESIGN 2 7/8" J-55 6 4# SET @ 3269' CEMENT W/ 436 cu ft cement TAIL IN W/ CMT TOP @ 1720' DETER. BY PERF. DATA: SPF FORM, 3172' - 3192' 24 holes PC 3202 - 3210 24 holes PC Top @ 2860' FF 2820 FF Coal Top @ 2860' | 55 set at 127' ed to surface Je 34shr outriJe |
| Det. By Ciculated CMT circular 4sec 7as. | de 34sm overide |
| PRODUCTION CASING DESIGN 2 7/8" J-55 6 4# SET @ 3269' CEMENT W/ 436 cu ft cement TAIL IN W/ CMT TOP @ 1720' DETER. BY PERF. DATA: SPF FORM, 3172'-3192' 24 holes PC 3202 - 3210 24 holes PC Fr. 2820 Fr. 2820 | l l |
| PRODUCTION CASING DESIGN 2 7/8" J-55 6 4# SET @ 3269' CEMENT W/ 436 cu ft cement TAIL IN W/ CMT TOP @ 1720' DETER. BY PERF. DATA: SPF FORM, 3172' - 3192' 24 holes PC 3202 - 3210 24 holes PC Fr. 2820 Fr. 2820 | 100 1720 |
| 2 7/8" J-55 6 4# Ojo Alamo Top @ 1828' Bim @ 1980' | |
| SET @ 3269' CEMENT W/ 436 cu ft cement TAIL IN W/ CMT TOP @ 1720' DETER. BY PERF. DATA: SPF FORM, 3172' - 3192' 24 holes PC 3202 - 3210 24 holes PC Fr. 2820 Fr. 2820 | |
| SET @ 3269' CEMENT W/ 436 cu ft cement TAIL IN W/ CMT TOP @ 1720' DETER. BY PERF. DATA: SPF FORM, 3172'-3192' 24 holes PC 3202-3210 24 holes PC Fr. 2820 Top @ 1828' Bim @ 1980' Kt- 1978 FF. Coal FF. Coal FF. Coal FF. Coal | |
| SET @ 3269' CEMENT W/ 436 cu ft cement TAIL IN W/ CMT TOP @ 1720' DETER. BY PERF. DATA: SPF FORM, 3172'-3192' 24 holes PC 3202-3210 24 holes PC Fr. 2820 Top @ 1828' Bim @ 1980' Kt- 1978 FF. Coal FF. Coal FF. Coal FF. Coal | ! |
| CEMENT W/ 436 cu ft cement TAIL IN W/ CMT TOP @ 1720' DETER, BY PERF, DATA: SPF FORM, 3172'-3192' 24 holes PC 3202-3210 24 holes PC Fr. 2820 Fr. 2820 | j |
| TAIL IN W/ CMT TOP @ 1720' DETER, BY PERF, DATA: SPF FORM, 3172' - 3192' 24 holes PC 3202 - 3210 24 holes PC Fr. 2820 Fr. 2820 | |
| CMT TOP @ 1720' DETER. BY PERF. DATA: SPF FORM. 3172'-3192' 24 holes PC 3202 - 3210 24 holes PC Fr. 2820 Fr. 2820 | |
| PERF. DATA: SPF FORM. 3172' - 3192' 24 holes PC 3202 - 3210 24 holes PC Fr. 2820 FT- Coal Top @ 2860' | Cement Plug |
| PERF. DATA: SPF FORM. 3172' - 3192' 24 holes PC 3202 - 3210 24 holes PC Fr. 2820 FT Coal | 1750' to 2050' |
| 3172' - 3192' 24 holes PC 3202 - 3210 24 holes PC Fr 2820 FT Coal | |
| 3172' - 3192' 24 holes PC 3202 - 3210 24 holes PC Fr 2820 FT Coal | |
| 3202 - 3210 24 holes PC Fr Coal Trop @ 2860' | Compart Plans |
| Fr 2820 FT Coal Top @ 2860' | Cement Plug 2860' to PBTD |
| Fr 2820 Top@2860' | 2000 101111 |
| 原語 (2963) | |
| | |
| FC 3168 Em@ 2963' | CIBP @ 3120' |
| | CIBF (@ 3120 |
| TUBING DATA | CIBP @ 3130' |
| N/A | PC |
| N/A 317 SET @ | 2' - 3210' |
| SET @ | |
| PACKER 2 7/8" 6 4# J-55 | et @ 3269' |
| S.N ID / @ PBTD @ 3259 TOC @ 1720' (C | 9 |
| TD @ 3269' | |
| FRAC JOB: (1) - PC -28,000 gal H2O w/ 28,000# 10/20 Deviation Formation Tops | sand Drop 24 balls |
| Feet Degrees OJAM 1828' | |
| 522 0.25 KTLD 1980' | |
| 926 0 5 FTLD Coal 2860' | |
| 1714 0.5 IGNA: 2963' | |
| 2400 0.75 CTWD 3026' NOTES: Slimhole completion | |
| 2982 1 CAHN 3138' PCCF 3168' | |

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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: 4 Riddle C LS

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 a cement plug from 552' 452' inside and outside the 2 7/8" casing to cover the Nacimiento top.
- b) Place the Surface plug from 177' to surface inside and outside the 2 7/8" casing.

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.