| (August 1999). | UNITED ST | | | OMB No. Expires Nove | 1004-0136 |
|---|---|---|---|---|----------------------|
| | DEPARTMENT OF T BUREAU OF LAND I | | | 5. Lease Serial No. SF 080917 | |
| APPL | LICATION FOR PERMIT | TO DRILL OR RE | ENTER 6 1897 | 6. If Indian, Allottee or Tr | ibe Name |
| Ia. Type of Work: D | RILL REENTER | | AUG 2008 | If Unit or CA Agreemer | |
| 1b. Type of Well: | il Well 🛛 Gas Well 🔲 Otl | her Sing | Multiple Zone | 8 Lease Name and Well N ATLANTIC 1M | NO. |
| Name of Operator BP AMERICA PROI | Contact: DUCTION COMPANY | CHERRY HLAVA E-Mail: hlavacl@bp.com | | 9 API Well No. 7 | 32362 |
| 3a. Address P.O. BOX 3092 HOUSTON, TX 77253 | 3-3092 | 3b. Phone No. (inclu Ph: 281.366.408 | | 10. Field and Pool, or Exp BASIN DK & BLAN | loratory |
| 4. Location of Well (Rep | ort location clearly and in accord | ance with any State req | uirements.*) | 11. Sec., T., R., M., or Blk | and Survey or Area |
| At surface | SENW 1770FNL 1780FW | _ 36.51400 N Lat, 1 | 07.52400 W Lon | Sec 34 T31N R10V | V Mer NMP |
| At proposed prod. zone | NENW 900FNL 2200FWL | 36.51400 N Lat, 10 | 7.52400 W Lon | <i> </i> - | |
| 14. Distance in miles and d 10 MILES EAST FR | lirection from nearest town or post IOM AZTEC | office* | | 12. County or Parish SAN JUAN | 13. State NM |
| | I location to nearest property or nearest drig, unit line, if any) | 16. No. of Acres in I | ease | 17. Spacing Unit dedicated | d to this well |
| 1770' | iomost ang. amt mo, n any, | 2538.13 | | 318.27 N/2 | |
| 18. Distance from proposed completed, applied for | l location to nearest well, drilling, | 19. Proposed Depth | | 20. BLM/BIA Bond No. o | n file |
| 300' | , 02 420 10400, 10 | 7787 MD 7646 TVD | | WY2924 | |
| 21. Elevations (Show wheth 6251 GL | her DF, KB, RT, GL, etc. | 22. Approximate date 07/25/2004 | e work will start | 23. Estimated duration 7 DAYS | |
| | | 24. Att | achments | | |
| The following, completed in a | accordance with the requirements of | of Onshore Oil and Gas | Order No. 1, shall be attached to | this form: | <u> </u> |
| | ristered surveyor. location is on National Forest Syst the appropriate Forest Service Of | | 4. Bond to cover the operation ltem 20 above). 5. Operator certification 6. Such other site specific infauthorized officer. | · | , |
| 25. Signature (Electronic Submiss | ion) | Name (Printed/Typed CHERRY HLA | | | Date 05/21/2004 |
| Title REGULATORY ANA | ALYST | | | | |
| Approved by (Signature) | | Name (Printed/Typed |) | | Date |
| Original Signed: Step | hen Mason | | | | AUG 0 5 2004 |
| Title | | Office | | | |
| Application approval does no operations thereon. Conditions of approval, if any | t warrant or certify the applicant ho | olds legal or equitable tit | tle to those rights in the subject le | ease which would entitle the a | pplicant to conduct |
| | and Title 43 U.S.C. Section 1212, raudulent statements or representa | | | o make to any department or a | agency of the United |

Additional Operator Remarks (see next page)

Electronic Submission #30974 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

This action is subject to technical and procedure from the ordered to 43 CFR 3165 3 and to 43 CFR 316

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL PROUIREMENTS".

directional surgely

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

District I FO Box 1980, Hobbs NM 88241-1980 PO Drawer KK, Artesia, NM 87211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410

2636(R)

State of New Mexico Energy, Minerals & Natural Resources Departs

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

Form C-102 Revised February 21, 1994 Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

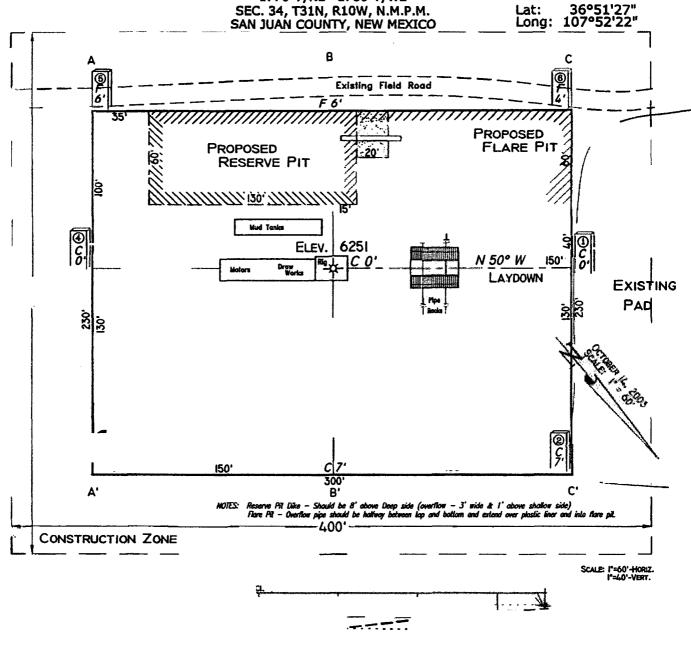
District IV PO Box 2088, Santa Pe, NM 87504-2088 AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT Blanco Wesaverde 72359 Well Number 76 # 1M 000 282 Atlantic 7 OGRID No. Elevation Operator Name **BP AMERICA PRODUCTION COMPANY** 6251 000778 Surface Location North/South line East/West line County Township Range Feet from the UL or Lot No. Lot Idn Feet from the SAN JUAN WEST 34 1770 1780 31 N 10 W NORTH F (Lot 4) "Bottom Hole Location If Different From Surface Section East/West line County 7 UL or lot no. Township Lot Ida Feet from the Range Feet from the North/South line 10 W SAN JUAN 34 900 NORTH 2200 WEST C (Lot 1) 31 N Dedicated Acres Joint or Infill Consolidation Code 15 Order No. 318.21 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Lot 1 Lot 2 **Bottom Hole Location** 900' F/NL 2200' F/WL Azimuth - 25 51' 976' AUG 2004 - 1780' -Lot 3 3. Dry 37. S SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. October 14, 2003 Lot 9 Lot 8 Lot 7 Lot 6 Date of Survey Signature and Seal of Professional Surveyor

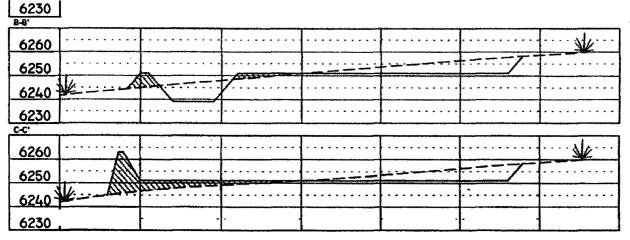
7016

| Office Office | State of N | new Me | XICO | | | orm C-103 |
|--|--|--|--|--|--|--|
| District I | Energy, Minerals a | and Natu | ral Resources | | | March 4, 200 |
| 1625 N. French Dr., Hobbs, NM 88240 | | | | WELL API NO | | |
| District II | OIL CONSERV | ATION | DIVISION | | NEW WELL | |
| 1301 W. Grand Ave., Artesia, NM 88210 District III | 1220 South | | | 5. Indicate Typ | | |
| 1000 Rio Brazos Rd., Aztec, NM 87410 | | | | STATE | | |
| District IV | Santa Fe | , NM 8/ | 7505 | 6. State Oil & | Gas Lease No. | |
| 1220 S. St. Francis Dr., Santa Fe, NM | | | | | | |
| 87505 | ES AND REPORTS ON | WEITS | | 7 Leace Name | or Unit Agreen | nent Name |
| (DO NOT USE THIS FORM FOR PROPOSAL | | | | 7. Lease Name | Atlantic | Hent Name |
| DIFFERENT RESERVOIR. USE "APPLICA" | | | | (A DD filed wi | th BLM SF 080 | 017) |
| PROPOSALS.) | • | , | | 8. Well Numb | | 917) |
| 1. Type of Well: | | | | t . | er | |
| Oil Well Gas Well C | Other | | | 1 M | | |
| 2. Name of Operator | | | | 9. OGRID Nu | mber | |
| BP AMERICA PRODUCTION CO |) | | |), oorab iva | | |
| 3. Address of Operator | | | | 10. Pool name | or Wildcat | |
| P.O. BOX 3092 HOUSTON, TX 7' | 7079-2064 | | | | & Blanco Mesa | verde |
| 4. Well Location | 7017-2004 | | | Dashi Dakota | C Dianeo Mesa | - |
| 4. Well Location | • | | | | | |
| Unit Letter F: 1770 | feet from the <u>North</u> | <u>1</u> lir | ne and <u>1780</u> | feet from the W | <u>est</u> line | |
| Section 34 | Township 31N | | Range 10W | | SAN JUAN | County |
| | 11. Elevation (Show whe | - | | 2.) | | 1.4 |
| Pit or Below-grade Tank Application (For pi | t on below and to be also | 625 | | | | |
| | | | | | | |
| Pit Location: UL F Sect 34 Twp 31! | N_Rng_10W_Pit type_Dr | rilling_Dep | oth to Groundwater | >100'_Distance from | nearest fresh wate | er well <u>>1000'</u> |
| Distance from nearest surface water_>1000 | 0' Polove grade Tork Lose | | | | | |
| | U _ DEIUW-ETAUE TAIIK LUCA | tion UL | F Sect 34 Tw | p 31N Rng 10W | : | |
| | | - | | | ; | |
| 1730 feet from the North line and 17 | | - | | | ; | _ |
| 1 | | - | | | ; | |
| 1730 feet from the North line and 17 | 795_feet from the <u>West_lir</u> | ne PLEAS | SE SEE ATTACHED | PAD LAYOUT | | |
| 1730 feet from the North line and 17 | propriate Box to Ind | ne PLEAS | ature of Notice | , Report or Oth | er Data | |
| 1730 feet from the North line and 17 12. Check App NOTICE OF INTE | propriate Box to Ind | licate N | ature of Notice | , Report or Oth | er Data EPORT OF | |
| 1730 feet from the North line and 17 | propriate Box to Ind | licate N | ature of Notice | , Report or Oth | er Data EPORT OF | |
| 12. Check Appoint Notice of International Notice of In | propriate Box to Ind ENTION TO: PLUG AND ABANDON | licate N | ature of Notice SUE | , Report or Othe BSEQUENT R | er Data EPORT OF: ALTERING (| |
| 12. Check Ap NOTICE OF INTE | propriate Box to Ind | licate N | ature of Notice SUE | , Report or Oth | er Data EPORT OF: ALTERING O | Casing [|
| 12. Check Apporting NOTICE OF INTERPORABILY ABANDON | propriate Box to Ind ENTION TO: PLUG AND ABANDON | licate N | ature of Notice SUE | , Report or Others RK | er Data EPORT OF: ALTERING (| Casing [|
| 12. Check App NOTICE OF INTERPORARILY ABANDON CONTICE OF INTERPORA | propriate Box to Ind ENTION TO: PLUG AND ABANDON CHANGE PLANS | licate N | ature of Notice SUE REMEDIAL WO | , Report or Others RK | er Data EPORT OF: ALTERING O | Casing [|
| 12. Check App NOTICE OF INTERPORARILY ABANDON DELL OR ALTER CASING | propriate Box to Ind ENTION TO: PLUG AND ABANDON CHANGE PLANS | licate N | ature of Notice SUE REMEDIAL WOR COMMENCE DE CASING TEST A CEMENT JOB | , Report or Others RK | er Data EPORT OF: ALTERING O | CASING |
| 12. Check Ap NOTICE OF INTEREST OF PERFORM REMEDIAL WORK DEPOSITE OF PULL OR ALTER CASING DESCRIPTION OF THE PERMIT | propriate Box to Ind ENTION TO: PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPLETION | licate N | ature of Notice SUE REMEDIAL WOO COMMENCE DE CASING TEST A CEMENT JOB | , Report or Othe BSEQUENT R RK D RILLING OPNS. | er Data EPORT OF: ALTERING (PLUG AND ABANDONM | CASING IENT |
| 12. Check Ap NOTICE OF INTE PERFORM REMEDIAL WORK I TEMPORARILY ABANDON OTHER: PIT PERMIT | propriate Box to Ind ENTION TO: PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPLETION ed operations. (Clearly | licate N | ature of Notice SUE REMEDIAL WOR COMMENCE DE CASING TEST A CEMENT JOB OTHER: | , Report or Othe SSEQUENT R RILLING OPNS. AND | er Data EPORT OF: ALTERING OF PLUG AND ABANDONM | CASING IENT Stimated da |
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PAD LAYOUT PLAN & PROFILE BP AMERICA PRODUCTION COMPANY

Atlantic # 1M 1770' F/NL 1780' F/WL SEC. 34, T31N, R10W, N.M.P.M.





<u>A-A'</u>

Cuts and fills shown are approximate — final finished elevation is to be objusted so earthwark will belance. Corner states are approximate and do not include additional areas needed for sidestopes and drainages. Final Pad Dimensions are to be verified by Contractor.

VANN SURVEYS P. O. Box 1306 Farmington, NM

BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Atlantic

Lease: Atlantic County: San Juan State: New Mexico Well No: 1 M

Surface Location: 34-31N-10W, 1770 FNL, 1780 FWL Bottom Location: 34-31N-10W, 900 FNL, 2200 FWL

Field: Blanco Mesaverde/Basin Dakota

Date: May 13, 2004

OBJECTIVE: Drill 240' below the top of the Two Wells; set 41/2" production casing. Drill out 70' below the 4 1/2" casing shoe, open-hole test the Burro Canyon (DK) interval. Stimulate CH, MF, PL and DK intervals

| METHOL | APPROXIMATE | DEPTH | S OF (| GEOLOGICA | L MARKER | |
|---------------------------------|---------------------------------------|-------------------|--------------|-----------|-------------|----------|
| TYPE OF TOOLS | DEPTH OF DRILLING | Estimated GL: | 6251 | | Estimated I | KB: 6265 |
| Rotary | 0 - TD | MARKER | | MD | Subsea | TVD |
| | PROGRAM | Ojo Alamo | | 1706' | 4604 | 1661' |
| | | Kirkland | 1 | 1766' | 4547 | 1718' |
| | | Fruitland | | 2502 | 3847 | 2418' |
| TYPE | DEPTH INTERVAL | Fruitland Coal | * | 2782' | 3581 | 2684' |
| OPEN HOLE | · · · · · · · · · · · · · · · · · · · | Pictured Cliffs | * | 3107' | 3272 | 2993' |
| See cased hole | | Lewis Shale | # | 3350' | 3041 | 3224' |
| | | Cliff House | # | 4634' | 1772 | 4493' |
| | | Menefee Shale | # | 4959' | 1447 | 4818' |
| Cased Hole (include open hole) | 1 | Point Lookout | # | 5365' | 1041 | 5224' |
| GR-CCL-TDT | TDT – TD to 7" shoe | Mancos | | 5732 | 674 | 5591' |
| CBL | Identify 4 1/2" cement top | Greenhorn | | 7374 | -968 | 7233' |
| | | Bentonite Marker | | 7430' | -1024 | 7289' |
| REMARKS: | | Two Wells | # | 7477' | -1071 | 7336' |
| - Please report any flares (mag | gnitude & duration). | Paguate | # | 7588' | -1172 | 7437' |
| | | Cubero Upper | # | 7613 | -1207 | 7472' |
| | | Cubero Lower | # | 7651' | -1245 | 7510' |
| | | Encinal Canyon | # | 7678 | -1272 | 7537' |
| | | Casing point | # | 7717 | -1311 | 7576' |
| | | Burro Canyon | | 7722' | -1316 | 7581' |
| | | TOTAL DEPTH | | 7787' | -1381 | 7646' |
| | | # Probable comple | tion inter | val | * Possible | Pay |
| SPEC | CIAL TESTS | DRILL CUTTING | G SAMP | LES | DRILL | ING TIME |
| TYPE | | FREQUENCY | DEPTH | j | FREQUEN | CY DEPTH |
| None | | 10' | 3455' -TD | | Geolograph | 0-TD |
| REMARKS: | | | | | | |
| | | | | | | |

| MUD PI | ROGRAM: | | - | | | - | |
|--------|------------|------|-----------------|--------------|------------------|------------------------|---------------------|
| Approx | . Interval | | Type Mud | Weight, #/ga | Vis, sec/qt | W/L cc's/30 min | Other Specification |
| 0 | - 120,20 | XO O | Spud | 8.6-9.2 | | | |
| 120 | - 3455' | (1) | Water/LSND | 8.6-9.2 | | <6 | |
| 3455 | - 7717' | | Gas/Air/N2/Mist | Volume suff | ficient to maint | tain a stable and clea | an wellbore |
| 7717 | - 7787' | (2) | Gas/Air/N2/Mist | Volume suff | ficient to maint | tain a stable and clea | an wellbore |

REMARKS:

- (1) The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.
- (2) Drill lower Dakota section with Gas/Air/N2/Mist; open hole completion below 41/2" casing shoe

CASING PROGRAM: (Normally, tubular goods allocation letter specifies casing sizes to be used. Hole sizes will be governed by Contract)

| Casing String | Estimated Depth | Casing Size | Grade | Weight | Hole Size | Landing Pt, Cmt, Etc. |
|-------------------|------------------------|-------------|-------------|--------|-----------|-----------------------|
| Surface/Conductor | 200 +20 | 9 5/8" | H-40 ST&C | 32# | 13.5" | 1 |
| Intermediate 1 | 3455' | 7" | J/K-55 ST&C | 20# | 8.75" | 1,2 |
| Production | 7717' | 4 1/2" | J-55 | 11.6# | 6.25" | 3 |
| Open Hole | 7717-7787 | | | | | 4 |

REMARKS:

- (1) Circulate Cement to Surface
- (2) Set casing 100' into Lewis Shale
- (3) Bring cement 100' above 7" shoe
- (4) Drill lower Dakota section with Gas/Air/N2/Mist; open hole completion below 41/2" casing shoe

CORING PROGRAM:

None

COMPLETION PROGRAM:

Flow test open hole/Burro Canyon interval to gauge productivity. Rigless, 3-4 Stage Limited Entry Hydraulic Frac

GENERAL REMARKS:

Notify BLM/NMOCD 24 hours prior to Spud; BOP testing, and Casing and Cementing.

BP America Production Company BOP Pressure Testing Requirements

Well Name:

Atlantic

County: San Juan

State: New Mexico

| Formation | TVD | Anticipated Bottom Hole Pressure | Maximum Anticipated Surface Pressure ** |
|----------------|------|-----------------------------------|---|
| Ojo Alamo | 1661 | | |
| Fruitland Coal | 2684 | | |
| PC | 2993 | | |
| Lewis Shale | 3224 | | |
| Cliff House | 4493 | 500 | 0 |
| Menefee Shale | 4818 | | |
| Point Lookout | 5224 | 600 | 0 |
| Mancos | 5591 | | |
| Dakota | 7336 | 2600 | 1449 |

** Note: Determined using the following formula: ABHP - (.22*TVD) = ASP

Requested BOP Pressure Test Exception: 1500 psi

SAN JUAN BASIN Dakota/MV 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

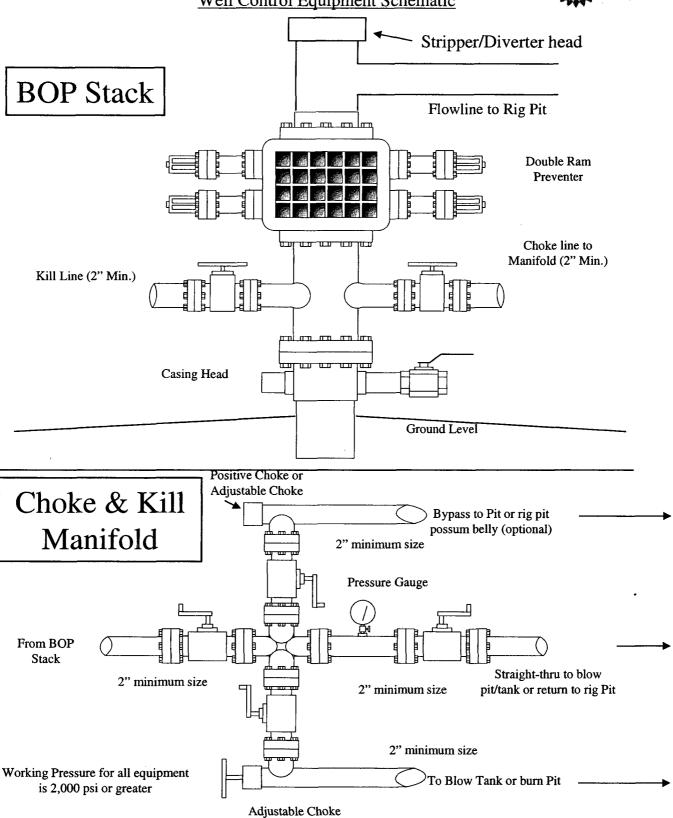
Below conductor casing to total depth 11" nominal or 7 1/16",3000 psi double ram preventer with rotating head.

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.

BP American Production Company



Well Control Equipment Schematic



Cementing Program

| Well Name: Location: County: | Atlantic 1M 34-31N-10W, 1 San Juan | 770 FNL, 1780 | FWL | | Field: API No. Well Flac | Blanco Mesave | erde / Basin Dakota | |
|--------------------------------------|---|--|---------------------------------------|--------------|---|--|---------------------------|-------|
| State: | New Mexico | | | · | Formation KB Elev (e GL Elev. (| est) 6265 | erde/Basin Dakota | |
| Casing Program | • | | | | | | | |
| Casing String | Est. Depth (ft.) | Hole Size (in.) | Casing Size (in.) | Thread | TOC (ft.) | Stage Tool Or TOL (ft.) | Cmt Cir. Out (bbl.) | |
| Surface | 126 | 13.5 | 9.625 | ST&C | Surface | NA ` ´ | ` , | |
| Intermediate | 3455 | 8.75 | 7 | LT&C | Surface | NA | | |
| Production - | 7717 | 6.25 | 4.5 | ST&C | 3355 | NA | | |
| Casing Propertie | es: | (No Safety F | actor Included) | | | | · , · · · | |
| Casing String | Size | Weight | Grade | Burst | Collapse | Joint St. | Capacity Drift | |
| | (in.) | (lb/ft) | | (psi.) | (psi.) | (1000 lbs.) | (bbl/ft.) (in.) | |
| Surface | 9.62 | 5 32 | 2 H-40 | 3370 | 7 | 1400 254 | 0.0787 | 8.845 |
| Intermediate | | 7 20 | K-55 | 3740 | 1 | 2270 254 234 | 0.0405 | 6.456 |
| Production - | 4. | 5 11.6 | J-55 | 5350 | 1 | 4960 154 | 0.0155 | 3.875 |
| | | | | | | ······································ | | |
| Mud Program | | | | _ | | D " D' O | | |
| Apx. Interval | Mud Type | Mud Weight | | | | Properties Prio Cemer | nung: | |
| (ft.) | | | | PV | <20 | | | |
| | | | | ΥP | <10 | | • | |
| 0 - SCP | Water/Spud | 8.6-9.2 | | Fluid Los | !<15 | | | |
| SCP - ICP | Water/LSND | 8.6-9.2 | | | | | | |
| ICP - ICP2 | Gas/Air Mist | NA 8 0 0 0 | - | | | | | |
| ICP2 - TD | LSND | 8.6 - 9.2 | | | | | | |
| Cementing Progra | im: | | 0 | | I4 | 4: | Dundrastina | |
| Europe 9/ Lond | | | Surface | | intermed | liate | Production | |
| Excess %, Lead | | | 100 | | 75 | | 40 | |
| Excess %, Tail | | | NA 75 | | 0 | | 40 | |
| BHST (est deg. F | | | | | 120 | | 183 | |
| Special Instruction | | numna and line | 1,6,7 | | 1,6,8 |) | 2,4,6 | |
| | Do not wash Wash pumps | | :S. | | | | | |
| | 3. Reverse out | | | | | | | |
| | 4. Run Blend Te | | | | | | | |
| | Record Rate, | | | | | | | |
| | Confirm dens | • | | | | | | |
| | 7. 1" cement to | surface if ceme | ent is not circulat | ted. | | | | |
| | 8. If cement is n | ot circulated to | surface, run ten | np. survey | 10-12 hr. af | ter landing plug. | | |
| | | ······································ | | | · · · · · · · · · · · · · · · · · · · | | | |
| Meteo | | | | iora dientac | ina producti | on cement job to minm | nize drillout. | |
| Notes: | *Do not wash up | on top of plug | . Wash lines bef | ore displac | • | - | | |
| | *Do not wash up | o on top of plug | . Wash lines bef | ore displac | | · · · · · · · · · · · · · · · · · · · | | |
| | *Do not wash up | on top of plug | . Wash lines bef | FreshWa | | | | |
| | • | 1942年 李小俊年 医基础 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 | · · · · · · · · · · · · · · · · · · · | FreshWa | | | 117 cuft | |
| | Preflush | 1942年 李小俊年 医基础 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 | 20 bbl. | FreshWa | ter | | 117 cuft | |
| | Preflush Slurry 1 | 1942年 李小俊年 医基础 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 | 20 bbl. | FreshWa | ter | | 117 cuft 0.4887 cuft/i | t OH |
| | Preflush Slurry 1 | 1942年 李小俊年 医基础 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 | 20 bbl. | FreshWa | ter | | | t OH |
| Notes: Surface: Slurry Properties: | Preflush Slurry 1 | 1942年 李小俊年 医基础 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 医乳腺性 | 20 bbl. | FreshWa | ter | Water | | t OH |
| Surface: | Preflush Slurry 1 | 00 | 20 bbl. | FreshWa | ter | · · · · · · · · · · · · · · · · · · · | | t ОН |

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

| | Fresh Water | 20 bbl | fresh water | | |
|------------------|--|--|---------------------------------------|-----------------------------------|------------------------|
| | Fiesii watei | 20 001 | nesh water | | |
| | Lead | | 300 sx Class "G" Cer | ment | 767 cuft |
| | Slurry 1 | | + 3% D79 extend | der | |
| | TOC@Surface | | +1/4 #/sk. Cellop | hane Flake | |
| | | | + 5 lb/sk Gilsonit | е | |
| | Tail | | 60 sx 50/50 Class "0 | | 75 cuft |
| | Slurry 2 | | + 2% gel (extend | | |
| | 500 |) ft fill | +1/4 #/sk. Cellop | | 0.1503 cuft/ft OH |
| | | | + 2% CaCl2 (acc + 5 lb/sk Gilsonit | | 0.1746 cuft/ft csg and |
| Slurry Propertie | es: | Density | Yield | Water | |
| | | (lb/gal) | (ft3/sk) | (gal/sk) | |
| Slurry 1 | | . 11.4 | 2.63 | 15.8 | |
| Slurry 2 | | 13.5 | 1.27 | 5.72 | |
| Casing Equipm | ent: | 7", 8R, ST&C | | | |
| | | 1 Float Collar (autofill w | ith minimal LCM in mud) | | |
| | | 1 Stop Ring Centralizers one in mid 1 Top Rubber Plug 1 Thread Lock Compou | dle of first joint, then eve | ery third collar | |
| Production: | Fresh Water | Centralizers one in mid 1 Top Rubber Plug | | ery third collar | |
| Production: | Fresh Water Lead Slurry 1 TOC, 400' above | Centralizers one in mid 1 Top Rubber Plug 1 Thread Lock Compou | nd | D124 / D154 antifoam d loss | 464 cuft |

Schlumberger Private Page 2