~ Roi m3160-5 ~ (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires March 31, 2007 OCD-ARTH SLA Expired III.

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an

| 6 |
|---|
| |

NMNM031186 6. If Indian, Allottee or Tribe Name

| abandoned well. Use For | т 316U-3 (APD) то | r sucn proposais. | | |
|--|---|---|--|--|
| SUBMIT IN TRIPLICATE - | 7 If Unit or CA/Agreement, Name and/or NMNM70945X | | | |
| Type of Well X Oil Well | | MAY 2 1 20 | •• | 8. Well Name and No Empire Abo Unit 6 "M" 9. API Well No. |
| 3a. Address | | 3b. Phone No. (include as | | 30-015-00838 |
| P.O. Box 1089 Funice NM 88231 | | 575-394-1648 | | 10. Field and Pool, or Exploratory Area |
| Location of Well (Footage, Sec., T., R., M., or Survey I UL C, 990 FNL & 2310 FWL | Description) | | | Empire Abo |
| Section 9, T18S, R27E | | | | 11. County or Parish, State |
| | | | | Eddy NM |
| 12. CHECK APPROPRIATE | BOX(ES) TO INI | DICATE NATURE OF | NOTICE, REP | ORT, OR OTHER DATA |
| TYPE OF SUBMISSION | | TYI | PE OF ACTION | |
| X Notice of Intent Subsequent Report | Acidize Alter Casing Casing Repair | Deepen Fracture Treat New Construction | Production Reclamation | |
| Final Abandonment Notice | Change Plans Convert to Injects | X Plug and Abandon | = : | ly Abandon |
| 13. Describe Proposed or Completed Operation (clearly If the proposal is to deepen directionally or recomp Attach the Bond under which the work will be per following completion of the involved operations. It testing has been completed. Final Abandonment Metermined that the final site is ready for final inspect. | lete horizontally, give s formed or provide the f the operation results i | ubsurface locations and mea Bond No. on file with BLM n a multiple completion or re | sured and true ver /BIA. Required s ecompletion in a t | tical depths of all pertinent markers and zon ubsequent reports shall be filed within 30 do new interval, a Form 3160-4 shall be filed o |
| Proposed plugging procedure: | | | | DITIONS OF APPROVAL |
| 1. Check location for anchors and | | | | |
| Assure that P&A approval has been procedures comply with final perm 2 (505 / 748-1283) of upcoming pl | it. Notify BLM | Roswell Field Off: | ice (505 / 6 | 327-0272) and NMOCD District |
| MIRU PU. Need approximately 5 for pressure - bleed off into con ND WH & install BOP (assure the | tainment. | | | eck casing and surface pipe |
| 4. Load hole & test to 500 psi for | r 5 minutes. I | f pressure is not l | neld, contac | et the BIM for further |
| instructions on necessary remedia | | | • | |
| Continued on Page 2 | (a | rlsbad | Z34- | 5909 |
| 14 I hereby certify that the foregoing is true and correct | | Title | | |
| Name (Printed/Typed) Barry C. Price | | Area O | perations <u>Te</u> | eam Lead |
| Lang C. Trie | | Date 5/7/08 | | APPROVED |
| THIS | SPACE FOR FED | ERAL OR STATE OF | ICE USE | |
| Approved by Accepted for reco | ord | Title | | MAPate 1 6 2008 |
| Conditions of approval, if any, are specific corrected of certify that the applicant holds legarithm by the to which would entitle the applicant to conduct operations the | this notice does not w those rights in the subj | arrant or Office ect lease | | JAMES A. AMOS |
| Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section | 1212 molean et a anima | for any parson knowingly a | nd willfully to | SUPERVISOR-EPS |

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to rhake to any

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

Form 3160-5 Empire Abo Unit M-6 .30-015-00838 Continued from Page 1

- 5. If casing does not hold pressure, TIH with retrievable packer and isolate casing leak. Contact BLM to determine further remedial action in regards to casing holes found. BLM Roswell Field Office (505 / 627 0272)

 Carlsbad 234-5909
- 6. TIH w/ bull plugged perfed nipple on 2 3/8" tbg to top of cement plug @ 5238'. Circulate hole w/ 9.5 ppg mud laden fluid.
- 7. POH & LD tbg to to 3088' (Glorieta top = 2908'). Spot 25 sack balanced plug from 3088' 2728'. PU and WOC 2 hours. Tag plug, re-spot if necessary.
- 8. POH to 1529' (8 5/8" surface casing shoe = 1429'). Spot 25 sack balanced plug from 1529' 1168'. WOC & tag plug. Perf.@ 1529, Squeeze (attempt) cmt. adequate to Fill. WOC Tag no lower than 1168'.

 9. POOH & LD tbg.
- 10. MIRU WL w/ lubricator test lubricator to 500 psi. RIH with perforating guns and perf 4½" casing w/ 4 squeeze holes @ 850'. RD WL equip..
- 11. Connect to $4\frac{1}{2}$ " casing and circulate 8 5/8" x $4\frac{1}{2}$ " annulus via perfs @ 850" until returns are clean. RU cementer and circulate cement to surface thru perfs and via annulus. Once cement is at surface, stop mixing & wash BOP clean leave $4\frac{1}{2}$ " casing full of cement from 0' 850",
- 12. RD PU and clean location.

- 13. Dig out WH and cut-off casingheads and anchors to 3' below GL.
- 14. Install regulation dry-hole marker. Clean location and prepare location for BLM& NMOCD inspections.
- 15. Ensure costs are accurately recorded and that work description is transmitted via DIMS (morning report) or faxed to the Midland office, Eunice production office, and the Houston office (DIMS satisfies transmittal to Houston).
- 16. Complete well handover form with a Production representative. Provide a copy for Production, fax to Midland office and send in original for well file. Assure that information for the required regulatory filings has been forwarded to responsible person. TOPS.

Accepted for record NMOCD

Form 3160-5 Empire Abo Unit M-6 30-015-00838 Continued from Page 2

17. Production Group will be responsible for final BLM & NMOCD inspection.

| Plug | Sacks | Depths | Comments | | | |
|------|-------|---------------|--|--|--|--|
| #1 | 25 | 3088' - 2728' | Plug for top of Glorieta @ 2908' | | | |
| #2 | 25 | 1529' - 1168' | Surface Casing Shoe | | | |
| #3 | 230 | 850' - 0' | Fills 8 5/8" x 4½" annulus and 4½" csg to surface – provides isolation of the top of the Queen & top of Yates. | | | |

If perfs @ 850' are squeezed and no circulation via the $85/8" \times 41/2"$ annulus: (1) inside plug from 850' to 490' must be in-place; (2) 41/2" casing perfed @ 60' & (3) annulus cemented to surface and inside of casing left full of cement from 0' - 60'.

Relevant Volume Factors:

85/8" = 24#

 $4\frac{1}{2}$ " = 9.5#

| Hole / Pipe Size | BBLS / FT | FT ³ / FT |
|--------------------|-----------|----------------------|
| 23/8" - 4.6# | .00387 | .02171 |
| 4½" – 9.5# | .0162 | .0912 |
| 4½" – 9.5# x 23/8" | .0108 | .0605 |
| 77/8" x 4½" | .0406 | .2278 |
| 85/8" x 4½" | .0440 | .2471 |

Save File to G:\PBU\Wellbore Sketches\SENM Eunice after Workover is completed & WB dia is updated. Rename Existing Tab with Date Prior to Worker, Rename Proposed Tab with Date After Workover is completed.

Do not enter values in yellow boxes these boxes receive inputs from the Well History sheet

| | | | Existing | | EAU M-6 | | | |
|--|---|---|---|---|--|--------------------------------|---------------------------|---|
| | | | Status | Produ | ucing | Operator | BP Ar | nerica |
| - 13 | | | Lease | Empire A | Abo Unit | Zone | |) |
| | | | Field | C |) | API | 30-015 | -00838 |
| | | | NMOCD | Empire Abo L | Jnit No. 006C | NMOCD | | |
| 1 | | | Location | C-9-18S-27E 9 | 990 FNL & 231 | 0 FWL | | |
| | TOC at sh | | Reference: | | | | | |
| 3 | 1 | ourton Temp | КВ | 3,558 | TVD | 5670' | PBTD | 5641' |
| | Survey: | | GL | 3,546 | MTD | | Last CIBP | 5273' |
| 12.4 | | | Casing | Weight/Grade | Depth | Cmt Sx | Hole | TOC |
| 1 | Surf Csg @ | 1429' | 8.5/8" | 24# | 1429' | 700 sx | ? | surface |
| | TOC: | 1400' | 4 1/2" | 9.5#/J-55 | 5655 | 350 sx | ? | 1400' |
| · Andrews | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | - | • | | | <u> </u> | |
| ZZZZZ | | | Spud | 2/27/1960 | | Top Perf | 5330' | |
| á | | | Completion | 3/20/1960 | | Bot Perf | 5584' | |
| 3 | | | Perforation His | | | | | |
| | | | 20-31-33-88-92 | 330-5420 (1spf 2-94-96-98, 559 35' cmt, RBP si | 4-5597, 5605-5 | 5630) | | |
| 78 | | | | | | | | |
| 224 | | | Current Tub | ulars: Blue b | oxes use dro | on down hox | es for descr | intions |
| | | | Current Tub Date sketc | ulars: Blue b | oxes use dro 2/11/08 | | | iptions |
| Section of the sectio | | | | h checked | | op down box by: by: | | iptions |
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Save File to G:\PBU\Wellbore Sketches\SENM Eunice after Workover is completed & WB dia is updated. Rename Existing Tab with Date Prior to Worker, Rename Proposed Tab with Date After Workover is completed.

Do not enter values in yellow boxes these boxes receive inputs from the Well History sheet.

| | | Proposed | | EAU M-6 | | | |
|--|---|---------------------------------------|------------------------------------|---|---|----------------|-----------------------------|
| | | | | | | | |
| | 700 | Status | | | Operator | | |
| | Top of Queen: 788' | Lease | | | Zone | 30-015 | |
| | Plug #3 from Queen | Field NMOCD | Empire Abo U | | API NMOCD | 30-013 | -00000 |
| | to surface: 220 sx | Location | C-9-18S-27E | | | | |
| | 850'-0' | | <u> </u> | 30 1 NL & 251 | | | |
| | TOO -4 -1 - 1400 | Reference: KB | | TVD | 5670' | PBTD | 5641' |
| | TOC at shoe 1400' with Halliburton Temp | GL | 3,546 | MTD | 3670 | Last CIBP | 5273' |
| | Survey: 1960 | | 0,0-10 | | | Last Oibi | |
| | | Casing | Weight/Grade | Depth | Cmt Sx | Hole | TOC |
| | Surf Csg @ 1429' | 8 5/8" | 24# | 1429' | 700 sx | ? | surface |
| | TOC 1400' | 4 1/2" | 9.5#/J-55 | 5655 | 350 sx | ? | 1400′ |
| | | 0 | 0 | 0 | 0 | 0 | 0 |
| \$25 \$6.7 \$1.7 | Plug #2 @ Surface Casing Shoe 1429': | | | | | | |
| | 25 sx from 1529'-1168' | Spud | 2/27/1960 | | Top Perf | 5330' | |
| | 3 3 3 1 3 1 1 3 2 3 - 1 1 0 0 | Completion | 3/20/1960 | | | 5584' | |
| | | Perforation His | | | | | |
| | | 5, '5840-5584',5 | 330-5420 (1spf 2-94-96-98, 559 | | | 5564', 5365-70 | -72-76', 5418- |
| | | | | | | | |
| | Plug #1 for isolating Glorietta Top: @ 2908' 25 sx. 3088' - 2728' | CIBP 5273' w/ | 35' cmt, RBP st | tuck at 5429' w | / inverted on of | f tool on top | |
| | 25 SX. 5000 - 2720 | | ulars: Blue b | | | | ptions |
| | | | ch checked ars checked | 2/11/08 | | Laura Lopez | |
| | Top of Giorietta; 2908' | | oing and R | od Assem | by: Ibly | length, ft | Top of Depth from KB, ft |
| | | # Jnts | Description of 1 | | RKB | 12.00 | HOITI ND, II |
| | | | | | | 12.00 | 12.00 |
| | | | ATHAT COM | | | | 12.00 |
| | CMT 4043' | | 9164376 | 24 35 6 37 | ASSESS OF | | 12.00 |
| 3 | Rem | | | 1000 | | | 12.00 |
| | Between 4105' | | | | | | 12 00 |
| | 1974 | | 794.3 | 74.71 | | | 12.00 |
| | 0.5.11.1 | | | | | | 12.00 12.00 |
| | 9.5 lb/gal mud will | | William Co. | | | | 12.00 |
| | be used between | | | | | | .12 00 |
| | plugs. | | | KALASIAN, | | | 12.00 |
| | | | | | | | 12 00 |
| | | | | | | | 12.00 |
| | Existing Cmt @ 5238' | | Current Ro | od Design | | | |
| 3, 100, 100, 100, 100, 100, 100, 100, 10 | Last CIBP: 5273' | # Rods | Description of F | | RKB | 12.00 | |
| | Top Abo . 5324' | | | 1 de la 200 de 2 de 1 | other has been believed a service and a | | 12.00 |
| 47 A 4564 | Top Perf: 5330' | | | | | | 12.00 |
| | Bot Perf : 5420' | | Accep | led for | record | | 12.00 |
| <u>₹</u> | Lost RBP @ 5429' Top Perf: 5540' | | | | | | 12.00 |
| 55-49 60.07 60.4 90 | Bot Perf : 5584' | | | MOCD | | | 12.00 |
| | | | | | | | 12.00 |
| | | · · · · · · · · · · · · · · · · · · · | | | | | 12.00 |
| | PBTD @ 5641' | | 767 (167) | | | | 12.00 |
| | | | er armer | | | | .12.00 |
| TD 5670' | | | Pump with gas | anchor : | | | 12.00 |
| | | | 2" x | 1 25" x 24' RH | вс | | 12.00 |
| L | | | | | | | 12.00 |

BUREAU OF LAND MANAGEMENT Carlsbad Field Office 620 East Greene Street Carlsbad, New Mexico 88220 575-234-5972

Permanent Abandonment of Federal Wells Conditions of Approval

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within <u>ninety (90)</u> days from the approval date of this Notice of Intent to Abandon.

If you are unable to plug the well by the 90th day provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.

- 2 <u>Notification:</u> Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-393-3612.
- 3. <u>Blowout Preventers</u>: A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.
- 4. <u>Mud Requirement:</u> Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of water. Minimum nine (9) pounds per gallon.
- 5. <u>Cement Requirement</u>: Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. In lieu of a cement plug in a cased hole, a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient.

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

- 6. <u>Dry Hole Marker</u>: All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement. The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds).
- 7. <u>Subsequent Plugging Reporting:</u> Within 30 days after plugging work is completed, file one original and five copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**
- 8. <u>Trash:</u> All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration conditions of approval will be developed and furnished to you.