

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources
RECEIVED
OIL CONSERVATION DIVISION
NOV 16 2009
1220 South St. Francis Dr.
HOBBSOCD Santa Fe, NM 87505

Form C-103
June 19, 2008

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-23031 ✓
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other Injection Well		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Chesapeake Operating, Inc.		6. State Oil & Gas Lease No.
3. Address of Operator P.O. Box 18496 Oklahoma City, OK 73154-0496		7. Lease Name or Unit Agreement Name Quail Queen Unit ✓
4. Well Location Unit Letter K : 2080' feet from the South line and 1980' feet from the West line Section 11 Township 19S Range 34 E NMPM County Lea		8. Well Number 8 ✓
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3976' GR		9. OGRID Number 147179
		10. Pool name or Wildcat Queen; SWD

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:
REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: Adding ☒ OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Please find the following information of our plans to re-enter this well & perform work in order to improve the injection rate:

Workover procedure, actual well bore diagram, NMOCD's C-144 (CLEZ) pit permit.

R-12952 Injection

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Bryan Arrant TITLE Senior Regulatory Compl. Sp. DATE 11/13/2009

Type or print name Bryan Arrant E-mail address: bryan.arrant@chk.com PHONE: (405)935-3782

For State Use Only

APPROVED BY: Mark Whitaker TITLE Compliance Officer DATE 11-25-09

Conditions of Approval (if any):

Condition of Approval: Notify OCD Hobbs
office 24 hours prior to running MIT Test & Chart.

QQU #8 (Injector)
Sec. 11-T19S-R34E, 2080 FSL & 1980 FWL
Lea County, NM
API #3002523031
CHK Prop #891058
10/29/2009

Frac Queen Formation

Workover Justification

The QQU #1 was SPUD on 3/29/1969. The well was converted to water injection as of 6/15/2009. The QQU currently has 6 injectors. The QQU #3, 14, & 12 are taking around 300 – 500 BWPD. The QQU #1, 8, & 11 are only taking from 0 – 20 BWPD. It is proposed to put a small frac on the QQU #8 in order to bypass any near wellbore skin and therefore increase our daily injection rates. This will allow for quicker recovery of the secondary reserves. If successful, frac jobs on the other two low rate injectors will be evaluated.

Well Data

Tubing: 2-3/8", 4.7# J-55 PCID @ 4,937'
Casing: 5-1/2" @ 5,168'
TD: 5,168'
PBDT: 5,137' (Original Hole)
Elevation: 3,986' KB 3,976' GL
WI / NRI (%): 88.72 / 70.07

Packer: 5-1/2" Nickel Plated Arrowset w/ 1.81 "F" profile nipple & on/off tool @ 4,969'

SQZ'd: 4,783' – 94' - Originally perforated in 1969, and sqz'd in 1981. (Tested good to 500# on 6/2009)

Open Perforations:

Queen 5,028' – 34', 5,041' – 60', 5,064' – 70', 5,082 – 86', 5,092' – 94', 5,101' – 05', 5,114 – 20' (47' Gross Interval)
Shot most recently on 6/2008 w/ 2SPF

Procedure

1. MIRU PU. ND WH. NU BOP. Release 5-1/2" Arrowset pkr & TOH. Stand back 2-3/8" J-55 injection tbq and pkr assembly.
2. RU Hydrotesters. TIH w/ 5-1/2" retrievable pkr and 2-7/8" workstring while hydrotesting to 80% of burst pressure. Set pkr 50' – 100' from the top perf @ 5,028'. RD Hydrotesters.
3. RU frac crew. Perform frac as per recommendations (Anticipate 32K 16/30 sand & 20 BPM). RD frac crew.
4. Release 5-1/2" pkr. Lower through perfs to ensure perfs are clear TOH & LD workstring.
5. RU Hydrotesters. PU 5-1/2" pkr assembly and 2-3/8" J-55 injection tbq. TIH while hydrotesting. RD Hydrotesters.
6. Set pkr 50' – 100' from the top perf @ 5,028'. Circulate pkr fluid on the backside. Perform MIT as required.
7. ND BOP. NU WH. RDMO PU. Return well to injection.

Notes

- Acidized 6/2009. (5000 gal 15% HCL & 1600# GRS, Avg Rate: 5.5 BPM, AVG #'s: 3864, SITP @ 0# in 30 min)



BLM Schematic

QUAIL QUEEN UNIT 8

CONFIDENTIAL

Field: QUAIL QUEEN
County: LEA
State: NEW MEXICO
Location: SEC 11, 19S-34E, 2080 FSL & 1980 FWL
Elevation: GL 3,976.00 KB 3,986.00
KB Height: 10.00

Spud Date: 3/29/1969
Initial Compl. Date:
API #: 3002523031
CHK Property #: 891058
1st Prod Date: 1/31/1970
PBTD: Original Hole - 5137.0
TD: 5,168.0

