

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONSERVATION
ARTESIA DISTRICT
DEC 15 2014

FORM 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.

5. Lease Serial No.
NMNM118109

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. TUMAK FEDERAL 3	
2. Name of Operator COG OPERATING LLC Contact: CHASITY JACKSON E-Mail: cjackson@concho.com		9. API Well No. 30-015-40459	
3a. Address ONE CONCHO CENTER 600 W. ILLINOIS AVE MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-686-3087	10. Field and Pool, or Exploratory EMPIRE	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 14 T17S R28E Mer NMP SWSW 245FSL 230FWL		11. County or Parish, and State EDDY 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 type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input checked="" 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 recomplate 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 recomplate 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.)

COG Operating LLC, respectfully requests this water disposal method for the following battery. Tumak Federal Battery location.
Producing Formation: Empire
Amount Produced: 341 BWPD
Water stored in 500 bbl Water Tank
Water is transferred by 4" DR9 Polypipe to COG's 8" main line water system. The water doesn't go to a particular well, it is distributed into the main water system and is distributed into either the Jenkins B Water Flood WFX-861 or the disposal wells in the system at the Empire Area. The Empire Area wells include the following:
GJ West Coop Unit Water Flood WFX-245-0
Chase 21 State Com 1 SWD - 30-015-30874 SWD-1007
Big George SWD 3 - 30-015-28759 SWD-611

APD 12/19/14
ACCEPTED FOR RECORD
NMDCD

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #252508 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by LINDA DENNISTON on 11/25/2014 ()**

Name (Printed/Typed) CHASITY JACKSON	Title PREPARER
Signature (Electronic Submission)	Date 07/10/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date DEC 5 2014
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 JAMES A. AMOS SUPERVISOR-EPS

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.

Additional data for EC transaction #252508 that would not fit on the form

32. Additional remarks, continued

Muskegon 16 State com 1 SWD - 30-015-27108 SWD-624

Dodd North Route
 Eddy County, New Mexico
 Prepared by: Travis Newman & Ryan Murphy

Well Repair
 June 4, 2014

OPERATIONS & ENGINEERING WELL EXPENDITURE ROUTING PROCEDURE

Objective

The objective of this procedure is to repair the mechanical integrity issue that caused it to fail the state Mechanical Integrity test and bring the well back into compliance. We will test casing and bail some of the fill to get more rathole, then go in with a redressed packer and on/off tool.

Well Information

Well Type: SWD
 API: 30-015-27882
 Location: 720 FNL 2005 FEL SEC 11-17S-29E Unit B
 Deviated: No
 Scada: No
 Projected Cost: \$124,000
 AFE No: 005784

Completion Information

MD Perforations:

- Wolfcamp
 - 7338' – 7508' Squeezed on 10/11/95 (Above Packer)
- Cisco
 - 8644' - 8688'
 - 8644' – 8962' Re-perf on 10/09/1995
 - 8847' – 8872'
 - 8877' – 8921'
 - 8939' – 8962'

Current PBTD: 9333'
 DV Tool: 6981'

Tubular Data							
Size	Weight (lb/ft)	Grade	ID (in)	Drift (in)	Collapse (psi)	Burst (psi)	Capacity (bbl/ft)
2-7/8"	6.5	L-80	2.441	2.347	11,170	10,570	0.00579
3-1/2"	9.3	L-80	2.992	2.867	7,400	6,980	0.00870

Casing Data							
Size	Weight (lb/ft)	Grade	ID (in)	Drift (in)	Collapse (psi)	Burst (psi)	Capacity (bbl/ft)
7"	26	S-95	6.276	6.151	7,800	8,600	0.032

Well History

- 04/19/1994 – Spud date
- 09/25/1995 – Cement squeeze @ 7510': csg would not test

- 09/28/1995 – Cement squeeze: csg tested
- 10/09/1995 – Reperfed @ 8898' – 8906'
- 02/14/2002 – Acid job
- 01/20/2003 – Acid job
- 07/21/2003 – Acid job
- 03/25/2009 – Acid job
- 09/24/2009 – Acid job
- 03/17/2010 – Acid job
- 07/27/2010 – HIT (jts 18 & 24); trouble getting off on/off tool; packer junked, pitted, corroded
- 04/27/2011 – Acid job: tagged fill @ 8700', cleaned out to PBTD (9333')
- 07/09/2013 – Csg pressure increased from 0 psi to 230 psi
- 8/26/2013 – Change packer for pressure on backside, test csg, acidize w/ 36,600 gal 15% HCl & 15,000# rock salt
- 5/15/2014 – Wireline dip in showed fill @ 9,084 – 122' below bottom perf.

Current Tubing Detail

- 274 jts 3-1/2" 9.3# IPC Tubing (L-80)
- Stainless Steel X/O
- 7" X 3-1/2" NP ON/OFF Tool
- 7" X 3-1/2" 7K AS1-X NP PKR @ 8,586' w/ SS 2.81 "F" Profile

Procedure for Work-over

- MIRU WSU & Kill Truck
- Check casing and tbg pressure, pump brine down tbg kill well
 - From tbg pressure of ~50 psi (per Zilmer this morning), brine should kill it easily.
- ND WH, NU BOP, pressure test BOP.
- Get off on/off tool, sit for ~1hr to let pressures equalize
- Get back on on/off tool, release packer
- POOH w/ tbg. Set tbg on rubber mats and use thread protectors on pin end.
 - Visually inspect tubing for wear & corrosion, especially on the pin end.
 - Lay down any bad tubing
 - Visually check packer and on/off tool. Send to Globe for redress.
 - Please update tubing detail in PERC.
- Run work string w/ packer and RBP and packer.
- Set RBP @ 8544', set packer ~ 20' above
 - Test RBP to 500 psi.
 - Release packer to pressure up casing.
- Test casing to 500 psi, please use caution because of the squeezed perforations above RBP.
- If casing pressure does not hold pressure test RBP.
 - If RBP pressure test OK, PU and find casing hole.
- If casing pressure holds, POOH with work string, packer, and RBP.
- PU bailer, RIH and bail fill.
 - We are going to try and get as much as we can with one run. Please record details of fill in PERC.
- POOH & LD Workstring
- RBIH w/ redressed packer/ O/O tool, hydro-testing tubing **below slips**. Replace any bad tubing joints. Tubing detail will stay the same.
- Set packer ~8,586 or a little higher
- Get off O/O tool, circulate annular capacity w/ packer fluid, get back on O/O tool.
 - Sit ~1 hr to overnight, top off backside w/ packer fluid
- Contact Richard Inge, complete Mechanical Integrity Test to his satisfaction.
 - Bring chart by office at some point in time.
- ND BOP and NU WH.
- Contact Jason Barnett and turn over to injection.

Notes

- Please call if there are any questions or concerns.
- Record any corrosion or scale issues.

Contacts

- Fluid level – Mike Otley
 - 432-260-7072
 - motley@concho.com
- Foreman – Jason Barnett
 - jbarnett@concho.com
 - 432-312-0204
- Chemical – Kenny Kearney
 - 575-390-7782
 - Kenny.kearney@catalystoilfield.com
- Packer – Globe – Mitch Johnson
 - 575-513-4475

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

Disposal of Produced Water From Federal Wells
Conditions of Approval

Approval of the produced water disposal methodology is subject to the following conditions of approval:

1. This agency shall be notified of any change in your method or location of disposal.
2. Compliance with all provisions of Onshore Order No. 7.
3. This agency shall be notified of any spill or discharge as required by NTL-3A.
4. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
5. Any on-lease open top storage tanks shall be covered with a protective cover to prevent entry by birds and other wildlife.
6. This approval should not constitute the granting of any right-of-way or construction rights not granted by the lease instrument.
7. If water is transported via a pipeline that extends beyond the lease boundary, then you need to submit within 30 days an application for right-of-way approval to the Realty Section in this office if you have not already done so.
8. Disposal at any other site will require prior approval.
9. Subject to like approval by NMOCD.

7/10/14