Submit 1 Copy To Appropriate District Form C-103 State of New Mexico Office Revised August 1, 2011 Energy, Minerals and Natural Resources District I – (575) 393-6161 WELL API NO. 1625 N. French Dr , Hobbs, NM 88240 <u>District II</u> - (575) 748-1283 30-015-26764 OIL CONSERVATION DIVISION 811 S First St, Artesia, NM 88210 5. Indicate Type of Lease <u>District III</u> – (505) 334-6178 1220 South St. Francis Dr. STATE | FEE 🖂 1000 Rio Brazos Rd, Aztec, NM 87410 Santa Fe, NM 87505 6. State Oil & Gas Lease No. District IV - (505) 476-3460 1220 S St Francis Dr, Santa Fe, NM 87505 SUNDRY NOTICES AND REPORTS ON WELLS 7. Lease Name or Unit Agreement Name (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 EAST LOVING SWD PROPOSALS) 8. Well Number 1 1. Type of Well: Oil Well Gas Well Other SWD 9. OGRID Number 147179 2. Name of Operator Chesapeake Operating, Inc. 3. Address of Operator 10. Pool name or Wildcat P.O. Box 18496 Oklahoma City, OK 73154-0496 LOVING; DELAWARE, EAST 4. Well Location : 1157' feet from the North line and 491' feet from the East line Unit Letter A NMPM Eddy 15 Township Range 28E Section 23S County TO HER BELLEVILLE 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3001' GR 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK □ PLUG AND ABANDON □ REMEDIAL WORK ALTERING CASING □ COMMENCE DRILLING OPNS.□ TEMPORARILY ABANDON CHANGE PLANS P AND A PULL OR ALTER CASING MULTIPLE COMPL CASING/CEMENT JOB DOWNHOLE COMMINGLE OTHER: Acidize OTHER:  $\boxtimes$ 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 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion. To effectively increase injection into the Delaware interval Chesapeake Operating, Inc. respectively request to acidize existing perforations. Please find the work procedure, existing well-bore diagram & NMOCD's C144 (CLEZ) pit permit. The NMOCD will be noticed 24 hours prior to running a MIT so as to have the opportunity to witness. RECEIVED OCT 17 2011 NMOCD ARTESIA Spud Date: Rig Release Date: I hereby certify that the information above is true and complete to the best of my knowledge and belief. Sr. Regulatory Compliance Sp. 10/13/2011 SIGNATURE TITLE DATE Bryan Arrant bryan.arrant@chk.com 405-935-3782 Type or print name E-mail address: PHONE: For State Use Only APPROVED BY

Conditions of Approval (if any):



# East Loving SWD Acid Job Eddy County, NM Property No: 891227

### **Objective**

To decrease near wellbore damage and effectively increase injection into the Delaware interval.

### **Casing Detail**

OD (in)	Weight (lbs/ft)	Grade / Conn	Depth (MD – ft)	Drift (in)	ID (in)	Capacity (bbls/ft)	80% SF Collapse (psi)	80% SF Burst (psi)
7	23	J-55	13 – 4,600	6.241	6.366	0.0393	2,616	3,488

# **Tubing Detail**

OD (in)	Weight (Ibs/ft)	Grade / Conn	Depth (MD – ft)	Drift (in)	ID (in)	Capacity (bbls/ft)	80% SF Collapse (psi)	80% SF Burst (psi)
2-7/8	Unknown	Unknown	4,053	-	-	_	_	-

### **Workstring Detail**

OD (in)	Weight (lbs/ft)	Grade / Conn	Depth (MD – ft)	Drift (in)	ID (in)	Capacity (bbls/ft)	80% SF Collapse (psi)	80% SF Burst (psi)
2-7/8	8.7	N-80	_	2.165	2.259	0.00387	12,240	12,000

## **Wellbore Data**

Latitude:

32.29287520

Longitude:

-104.05811220

**Directions:** From Loving head East on State Hwy 387 for 1.7 miles. Turn North onto Co Rd 713/Oak Rd and go 0.2 miles. Turn right onto lease road and follow 0.5 miles to location.

**RKB Elevation:** 

13 ft

**Injection Perforations:** 

4,216 - 4,537 (ftKB)

TD:

4,600 (ftKB)

PBTD:

4,556 (ftKB)

Top of Fill

4,519 (ftKB)

Fast Loving SMD: Acid Joh

1/5

# East Loving SWD Property No: 891227

#### **Procedure**

- 1) **Safety is the highest priority**. Hold wellsite safety meetings prior to each significant operation. Review critical parameters and objectives as well as emergency action plans.
- 2) Prep location, MIRU PU and conduct rig inspection.
- 3) ND wellhead. NU BOP and enviro dish/vac.
- 4) Release packer at 4,050 ftKB. TOOH w/ 2-7/8" IPC injection tubing, on off-tool, and packer. (Note: Have thread protectors installed on all pins as we TOOH w/ IPC tubing.)
- 5) PU and RIH w/ bit, tubing cavity, and bailer on 2-7/8" workstring. (Note: Fill top of fill has been tagged at 4,519'.)
- 6) Clean out to from top of fill (4,519') to PBTD of 4,556 ftKB.
- 7) POOH and remove bit, tubing cavity and bailer.
- 8) RIH w/ packer and open ended workstring to 4,050'. Set packer.
- MIRU Cudd Acidizing Services with 5k pump truck, 500 gal of Xylene, 5,000 gal of 15% NEFE, and 100 bbls of brine.
- 10) Check all connections and tree to ensure maximum pressure rating of 3,000#.
- 11) Pressure up on Csg. to 500# and monitor throughout job. Pressure Test lines to 3,000#. (Max treating pressure for job is 2,500#)
- 12) Pump 500 gallons of Xylene, a a total of 5,000 gallons of 15% NEFE and drop rock salt as a diverter between each 1,667 gallons of acid. See pump schedule for details.

### **Pump Schedule**

Well name: East Loving SWD

Stage: 1

	Treat Schedule										
Stg. #	Fluid	Stg. Type	Clean Vol. (bbls)	Clean Vol. (gals)	Slurry Rate	Proppant	Cum. Prop. (lbs)	Prop. Conc. (lb/gal)	Stg. Time (min.)	Cum. Time (min.)	Time Remainin g (min.)
1	Xylene	Formation Treatment	11.9	500	60	N/A	0	0 00	20	2 0	34 3
3	15% NEFE	15% Acid	39.7	1667	60	N/A	00	0.00	6 6	8.6	32.3
4	Brine	500# Rocksalt Sweep	23.8	1000	60	N/A	0	0 00	4 0	12.6	25 7
5	15% NEFE	15% Acid	39.7	1667	6.0	N/A	. 0	0.00	6.6	19 2	21 7
6	Brine	500# Rocksalt Sweep	23.8	1000	60	N/A	0	0.00	4.0	23.2	15.1
7	15% NEFE	15% Acid	39.7	1666	6.0	N/A	0	0.00	6.6	29 8	11.1
8	Вппе	Flush	27.0	1134	60	N/A	0	0.00	4.5	34 3	4.5

			Totals			4.7
Brine (bbls)	Brine (gals)	15% NEFE (bbls)	15% NEFE (gals)	Xylene (bbls)	Xylene (gallons	
74.6	3134	119.0	5000	11.9	500.0	1

- 13) Record ISIP, 5, 10, and 15 minute shut in pressures.
- 14) RDMO Cudd Acidizing Services and clean location
- 15) RIH and set F-Plug in F-Nipple. Release from packer, TOOH, and Lay down 2-7/8" work string.
- 16) MIRU Hydrotesters and hydrotest 2-7/8" IPC tubing above slips to 5,000# while RIH w/ packer, F-nipple, on-off tool, and tubing. (Note: Use poly stabbing cup while making connections during TIH.)
- 17) Stop above packer at 4,050 ftKB.
- 18) Circulate hole w/ 170 BBL of packer fluid and 2%KCL.
- 19) Re engage on-off tool. Test backside to 500# If pressure holds ND BOP and enviro dish/vac. Set tubing in 10 pts of tension and NU wellhead.
- 20) RDMO PU and pump truck, and clean location.
- 21) RU Slickline. RIH and release F-Plug. TOOH w/ F-Plug and RD Slickline.
- 22) Call OCD 24 Hrs prior to MIT. Run MIT test prior to resuming injection.
- 23) Resume injection.

## **Personnel / Phone List**

**Production Superintendent** Office: (575) 391-1462 Mobile: (817) 526-2322 Danny Hunt

Production Foreman Ralph Skinner Office: (575) 391-1462 Mobile: (575) 441-4921

Donny Lowry Office: (575) 391-1462 Mobile: (575) 942-8511 Field Engineer

### **CURRENT WELLBORE SCHEMATIC**

WELL: EAST LOVING SWD 1

FIELD: East Loving

COUNTY: EDDY STATE: NEW MEXICO

LOCATION: 1,157.0 FNL & 491.0 FEL SEC 15, BLK ,

ELEVATION: 3,001.0 GR -- 3,014.0 RKB TD: 4,600.0 PBTD: Original Hole - 4556.0

API: 3001526764 SPUD DATE: 6/24/1991 RIG RELEASE: 6/24/1991

FIRST SALES:

PROP#: 891227

WELLBORE TYPE: VERTICAL

