

District I - (575) 393-6161

1625 N. French Dr., Hobbs, NM 88240

District II - (575) 748-1283

811 S. First St., Artesia, NM 88210

District III - (505) 334-6178

1000 Rio Brazos Rd., Aztec, NM 87410

District IV - (505) 476-3460

1220 S. St. Francis Dr., Santa Fe, NM

87505

HOBBS OGD

FEB 17 2012

RECEIVED

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO.

30-025-25111

5. Indicate Type of Lease

STATE ☐FEE ☒

6. State Oil &amp; Gas Lease No.

7. Lease Name or Unit Agreement Name

H.T. MATTERN "C"

8. Well Number 7

9. OGRID Number 4323

10. Pool name or Wildcat

PENROSE SKELLY GRAYBURG

## 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)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator

CHEVRON U.S.A. INC.

3. Address of Operator

15 SMITH ROAD, MIDLAND, TEXAS 79705

4. Well Location

Unit Letter J: 2130 feet from the SOUTH line and 1980 feet from the EAST line

Section 18

Township 21-S

Range 37-E

NMPM

County LEA

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

## 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: INTENT TO SONIC HAMMER, ACIDIZE, SC SQZ

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 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

CHEVRON U.S.A. INC. INTENDS TO SONIC HAMMER, ACIDIZE, &amp; SCALE SQUEEZE THE SUBJECT WELL.

PLEASE FIND ATTACHED, THE INTENDED PROCEDURE, &amp; C-144 INFO.

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

TITLE: REGULATORY SPECIALIST

DATE: 02-16-2012

Type or print name: DENISE PINKERTON

E-mail address: leakejd@chevron.com

PHONE: 432-687-7375

APPROVED BY:

TITLE

DATE

Conditions of Approval (if any):

FEB 20 2012

**HT MATTERN NCT-C 7**  
**PENROSE SKELLY-GRAYBURG**  
**Unit Letter J, T21S, R37E, Section 18**  
**Job: Sonic Hammer, Acidize & Scale Squeeze**

**1.31.2012**

**Procedure:**

1. Verify that well does not have pressure or flow. If well has pressure, note tubing and casing pressures on wellview report. Bleed down well; if necessary, kill with cut brine fluid (8.6 ppg).
  - **Caliper elevators and tubular EACH DAY prior to handling tubing/tools. Note in JSA when and what items are callipered within the task step that includes that work.**
2. MI & RU workover unit.
3. Unseat pump, POOH with rods and pump. Examine rods for wear/pitting/paraffin and capture any samples for analysis. **Do not hot water unless necessary.** ND wellhead, unset TAC, NU BOP. POOH and LD 1 jt, PU 5-1/2" packer and set ~ @ 25', test BOP pipe rams to 250 psi/1000 psi. Note testing pressures on wellview report. Release and LD packer.
4. PU tubing and tag for fill (TAC 3552', Bottom Perfs 3973', EOT 4,087', PBTD 5406'). POOH while scanning 2-7/8" prod tubing. LD all non-yellow band joints. If fill is tagged:
  - A. Above 4,150' continue to step 5.
  - B. Below 4,150' continue to step 7.
  - **Caliper elevators and tubular EACH DAY prior to handling tubing/tools. Note in JSA when and what items are callipered within the task step that includes that work.**
5. PU and RIH with 4-3/4' MT bit, 4 (3-1/2") drill collars on 2-7/8" 6.5# L-80 WS. RU power swivel and clean out to 4,200'. POOH with 2-7/8" WS and bit. LD bit & BHA.  
**Note: If circulation is not expected, notify Remedial Engineer to discuss CO with bailer (continue to step 6) or foam/air unit (continue to supplemental procedure on back).**
6. PU and RIH with 4-3/4" MT and Bulldog bailer on 2-7/8" 6.5# L-80 WS. Clean out to 4,200'. POOH with 2-7/8" WS and bit. LD bit & BHA.
  - **Expect trapped pressure inside tubing while breaking connections during bailing operations, discuss on JSA and mitigate hazard. Use mudbucket (remove bottom seals if applicable) while breaking connections.**
7. Contact sonic tool rep to be on site during job. PU and RIH with Sonic Hammer tool and work string to 3973' or enough to cover the bottom perforations with a whole stand. Hydrotest tubing to 6,000 psi. Stand back tubing to top perforations. Install stripper head and stand pipe with sufficient treating line to move tools vertically ~ 65'. Rig up pressure gauges to allow monitoring of tubing and casing pressures.
8. MI & RU Petroplex. Treat all intervals from 3660' to 3973' with 50 bbls of 8.6 ppg cut brine water per interval (refer to Table A). Pump down Sonic Hammer tool at 5 BPM while reciprocating tool across intervals. Do not exceed 5,000 psi tubing pressure. Leave annulus open in circulation mode while treating intervals with brine water.

9. Follow the brine water wash with 5,000 gals 15% NEFE HCl of total acid for all intervals. Spot 3 bbls of acid outside tubing, shut in casing, pump 1,000 gallons of acid @ 5 BPM over first treating interval from 3,660-3,724', monitor casing pressure not exceeding 500 psi. Flush tubing with brine water after every acidized interval, make a connection and continue with remaining interval. Refer to Table A.

Interval	Depth	Interval (Ft.)	Acid Volume (gal)
1	3,660-3,724	64	1,000
2	3,728-3,790'	62	1,000
3	3,796-3,854	58	1,000
4	3,863-3,921	58	1,000
5	3,925-3,973	48	1,000
			5,000

**Table A Perforation Intervals for Acid.**

10. Shut in well for 1 hr for the acid to spend. Monitor casing pressure to keep it below 500 psi. Bleed off excess pressure if necessary.
11. Continue moving uphole with Sonic Hammer pumping at 5 BPM with a total of 250 bbls 8.6 ppg brine water containing 3 drums (165 gallons) Baker SCW-358 Scale Inhibitor Chemical. Ensure top of tubing is flushed with water before making a connection. Refer to Table B.

Interval	Depth	Interval (Ft.)	Brine Water Volume (bbls)	SCW-358 Volume (gal)
1	3,973-3,925'	48	50	33
2	3,921-3,863'	58	50	33
3	3,854-3,796'	58	50	33
4	3,790'-3,728'	62	50	33
5	3,724-3,660'	64	50	33
Totals			250	165

**Table B Perforation Intervals for Scale Squeeze.**

12. Ensure Sonic Hammer is above all perforations. Pump 50 bbls 8.6 PPG cut brine water to scale squeeze well. Do not exceed 500 psi casing pressure or 5 BPM while pumping scale squeeze or casing flush. RD and release pump truck.
13. Run back in the hole and tag for fill. If fill entry was indented @ 4150' or above, clean-out to 4,200' following steps 5 or 6.
14. POOH & LD 2-7/8" WS and Sonic Hammer tool.
15. RIH with 2-7/8" production tubing hydrotesting to 6,000 psi. Set TAC per ALCR recommendation. ND BOP. NU WH. RIH with rods and pump per ALCR. Hang well on. RD and release workover unit.
16. Turn well over to production.