

Office -

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

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

SEP 17 2012

RECEIVED

WELL API NO.

30-025-25739

5. Indicate Type of Lease

STATE ☐FEE ☒

6. State Oil &amp; Gas Lease No.

7. Lease Name or Unit Agreement Name  
HUGH

8. Well Number 12

9. OGRID 241333

4323

10. Pool name or Wildcat

WANTZ

Abq &amp; Wantz GW

## 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 H: 2310 feet from the NORTH line and 330 feet from the EAST line

Section 14

Township 22-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, WELLBORE DIAGRAM, &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: 09-12-2012

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):

SEP 18 2012

**Hugh #12 – [30-025-25739]**

**Wantz field**

**T22S, R37E, Section 14**

**N 32° 23' 33.612", W -103° 7' 33.0594" (NAD27)**

**Job: Cleanout, Sonic Hammer Acidize & Scale Squeeze**

This procedure is meant to be followed. It is up to the WSM, Remedial Engineer and Production Engineer to make the decisions necessary to do SAFELY what is best for the well. In the extent that this procedure does not reflect actual operations, please contact RE, PE and Superintendent for possible MOC.

It should be noted, the anticipated maximum amount of H<sub>2</sub>S that an individual could be exposed to on location is as follows for given Radius of Exposure:

100 PPM ROE =  $0.001589 \times 3000 \text{ PPM} \times 90 \text{ MCF}^{0.6258} = 44 \text{ FEET}$

500 PPM ROE =  $0.0004546 \times 3000 \text{ PPM} \times 90 \text{ MCF}^{0.6258} = 20 \text{ FEET}$

### **Procedure:**

1. MI & RU Workover unit.
2. Verify that well does not have pressure/flow. If well has pressure, record 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/rods/tools. Note in JSA & WellView when and what items are callipered within the task step that includes that work.**
3. Unseat pump. POOH with rods & pump. Examine rod string for paraffin/corrosion. Do not hot water, unless significant paraffin is seen. ND wellhead, unset TAC, NU BOP [*Blinds on bottom, pipe rams on top*].
- **When NU anything over an open wellhead (EPA, etc.), ensure the hole is covered to avoid dropping anything downhole.**
4. POOH & LD 1 joint, PU 5-1/2" packer and set @ ~ 25'. Close and test BOP pipe rams to 250psi (low)/ 500psi (high). Record testing pressures on WellView report. Release and LD packer.
5. PU tubing and run back in hole to tag for fill.  
Depths: (TAC 6,490', Bottom Perfs 7,701', EOT 7,664', PBTD 7,681')
6. RU Scanners and POOH while scanning all 2-7/8" 6.5# J-55 production tubing. LD all non-yellow band joints. If fill is tagged:
  - a. Above 7,000' proceed to step #7.
  - b. Below 7,000' skip to step #8.

**Strap pipe out of the hole to verify depths. Send scan report to [lgbi@chevron.com](mailto:lgbi@chevron.com).**

- **Caliper elevators and tubular EACH DAY prior to handling tubing/rods/tools. Note in JSA & WellView when and what items are callipered within the task step that includes that work.**
7. PU and RIH with 4-3/4" Milled Tooth (MT) Bit, 4 (3-1/2') drill collars on 2-7/8" 6.5# L-80 Workstring. RU power swivel and C/O to 7,014'. POOH with 2-7/8" WS and bit. LD bit and BHA.

\*Note: If circulation is not expected/achieved, notify Remedial Engineer and proceed to C/O utilizing foam/air unit (continue to supplemental procedure at end).

8. Contact sonic tool representative to be on-site during job. PU and RIH with Sonic Hammer tool and 2-7/8" Workstring to 7,700' or enough depth to cover the bottom stimulation interval (@ 7,682') with a whole stand. Hydrotest tubing to 6,000 psi. Stand back tubing to top perforations (@ 6,614'). Install stripper head and stand pipe with sufficient treating line to move tools vertically ~ 65'. RU pressure gauges to allow monitoring of tubing and casing pressures during job.
9. MI and RU Petroplex equipment. Titrate acids and verify concentration ( $\text{HCl} \pm 1.5\%$ ). Treat all intervals from 6,610' to 7,685' with ~20 bbls of 8.6 ppg cut brine water per interval (**see Table 1**). 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.

Perf Intervals for Acid			
Interval (#)	Depth	Net Feet (ft)	Acid Volume (gal)
1	6,610' - 6,660'	50	500
2	6,730' - 6,790'	60	300
3	6,840' - 6,905'	65	350
4	6,935' - 6,995'	60	300
5	7,035' - 7,070'	35	200
6	7,100' - 7,160'	60	600
7	7,195' - 7,215'	20	300
8	7,270' - 7,330'	60	650
9	7,330' - 7,395'	65	1,800
10	7,400' - 7,450'	50	600
11	7,620' - 7,685'	65	400
Total		590	6,000

**Table 1**

10. Follow the brine water wash with 6,000 gals 15% NEFE HCl of total acid for all intervals. Spot 3 bbls of acid outside tubing, shut in casing, pump 500 gals of acid @ 5 BPM over first treating interval from 6,610' – 6,660', monitor casing pressure not exceeding 500 psi on backside. Flush tubing with brine water after every acidizing interval, make a connection and continue with remaining interval. **Refer to Table 1.**
11. Shut in well for 1 hr to allow time for acid to spend. Monitor and bleed off excess pressure at surface if necessary to keep casing pressure below 500 psi.
12. Scale squeeze well with a total of 445 bbls 8.6 ppg brine water mixed with 4 drums (220 gallons) Baker SCW-358 Scale Inhibitor Chemical. Pump down Sonic Hammer tool at a max rate of 5 BPM. Start from lowest interval of 7,685' – 7,620' and continue moving uphole per pump schedule (**see Table 2**). Ensure top of tubing is flushed with brine water before making a connection.

Scale Squeeze Pump Schedule					
Step	Interval (ft)	Max Rate (BPM)	Volume Brine (bbl)	Volume Scale Chem. (gal)	Cum Volume (bbl)
1 Pump Chemical/brine while moving from	7685' - 7620'	5	4	15	4
2 Pump Brine while moving from	7685' - 7620'	5	26		30
3 Move pipe to next interval of	7450' - 7400'				30
4 Pump Chemical/brine while moving from	7450' - 7400'	5	5	20	36
5 Pump Brine while moving from	7450' - 7400'	5	40		76
6 Move pipe to next interval of	7395' - 7330'				76
7 Pump Chemical/brine while moving from	7395' - 7330'	5	15	65	92
8 Pump Brine while moving from	7395' - 7330'	5	65		157
9 Move pipe to next interval of	7330' - 7270'				157
10 Pump Chemical/brine while moving from	7330' - 7270'	5	6	25	164
11 Pump Brine while moving from	7330' - 7270'	5	39		203
12 Move pipe to next interval of	7215' - 7195'				203
13 Pump Chemical/brine while moving from	7215' - 7195'	5	3	10	206
14 Pump Brine while moving from	7215' - 7195'	5	17		223
15 Move pipe to next interval of	7160' - 7100'				223
16 Pump Chemical/brine while moving from	7160' - 7100'	5	5	20	229
17 Pump Brine while moving from	7160' - 7100'	5	35		264
18 Move pipe to next interval of	7070' - 7035'				264
19 Pump Chemical/brine while moving from	7070' - 7035'	5	3	10	267
20 Pump Brine while moving from	7070' - 7035'	5	12		279
21 Move pipe to next interval of	6995' - 6935'				279
22 Pump Chemical/brine while moving from	6995' - 6935'	5	3	10	282
23 Pump Brine while moving from	6995' - 6935'	5	22		304
24 Move pipe to next interval of	6905' - 6840'				304
25 Pump Chemical/brine while moving from	6905' - 6840'	5	4	15	309
26 Pump Brine while moving from	6905' - 6840'	5	31		340
27 Move pipe to next interval of	6790' - 6730'				340
28 Pump Chemical/brine while moving from	6790' - 6730'	5	3	10	343
29 Pump Brine while moving from	6790' - 6730'	5	32		375
30 Move pipe to next interval of	6660' - 6610'				375
31 Pump Chemical/brine while moving from	6660' - 6610'	5	5	20	380
32 Pump Brine while moving from	6660' - 6610'	5	70		450

Table 2

13. PU workstring to higher than top perforations. Displace tubing volume with 8.6 ppg cut brine water. Do not exceed 500 psi casing pressure or 5 BPM while pumping scale squeeze or casing flush. Release Petroplex.
14. TOH and LD 2-7/8" WS and Sonic Hammer tool.
15. RIH with 2-7/8" J-55 production tubing and hydrotest to 6,000 psi. **Pump 8.6 ppg cut brine water containing soap and biocide per ALCR.**
16. ND BOP, set TAC, NU WH. RIH with rods and pump per ALCR's recommendation/Rodstar design. Hang well on.

17. RD and release Workover unit. Turn well over to production.

## FOAM / AIR CLEANOUT PROCEDURE

- This procedure is an addition to the original procedure.
  1. Install flowback manifold with two chokes. All components on flowback manifold must be rated to at least 5,000 psi. If possible, flowback manifold components should be hydrotested before delivery. Hardline pipes from 2" casing valve to manifold to half pit with gas buster.
  2. Install flowback tank downwind from rig.
  3. Position Air unit upwind from Rig next to water tanks. Have vacuum truck on standby to empty halfpit. (if needed)
  4. RIH with 4-3/4" MT bit, 4 (3-1/2") drill collars on 2-7/8" 6.5# L-80 WS.
  5. NU stripper head with **NO Outlets** (Check stripper cap for thread type - course threads preferred). **Stripper head to be stump tested to 1,000 psi before being delivered to rig.** Check chart or test at rig.
  6. RU foam air unit. Make quality foam on surface before going down hole with foam/air. Install flapper float at surface before beginning to pump. Break circulation with foam/air. Evacuate fluid from well.

**Pump high quality foam at all times. Do not pump dry air at any time. Fluid injection rates will generally be above 12 gallons per minute.**

**Whenever there is pressure on the stripper head, have a dedicated person continuously monitor pressure at choke manifold and have a dedicated person at accumulator ready to close annular BOP in case stripper leaks. Do not allow pressure on stripper head to exceed 500 psi. If pressure cannot be controlled below 500 psi, stop pumping, close BOP and bleed off pressure.**

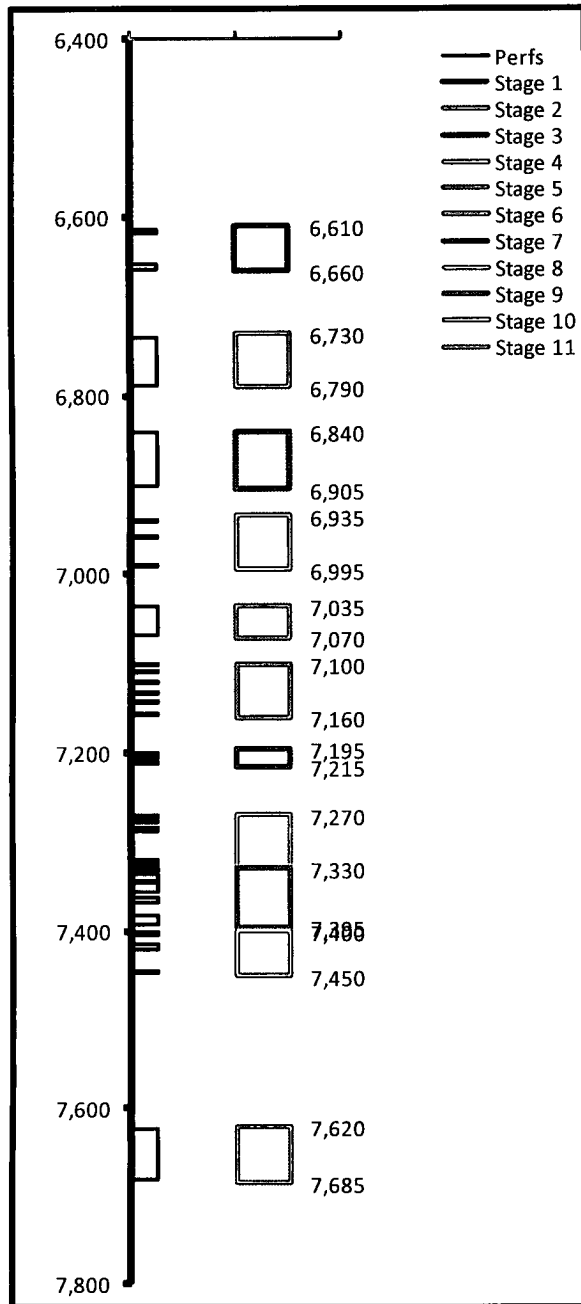
7. Clean out fill to 7,714' with low RPM's rotation and circulation, always keep pipe moving. Short trips can be beneficial to hole cleaning. Circulate well clean for at least 1 hour at the end of the day and pull up above the perforations before shut down for night. If the foam/air unit goes down, pull above the perforations.
8. When tripping out of hole, have special float bleed off tool available to relieve trapped pressure below float.

**Ensure that high quality, stiff foam is pumped while circulating the fill. Stiff foam is required to prevent segregation while circulating. Monitor flow and pressures carefully when cleaning out.**

**Before rigging up power swivel to rotate, carefully inspect Kelly hose to ensure that it is in good condition. Ensure that swivel packing is in good condition.**

**Continue on with original procedure for completion.**

# Hugh #12

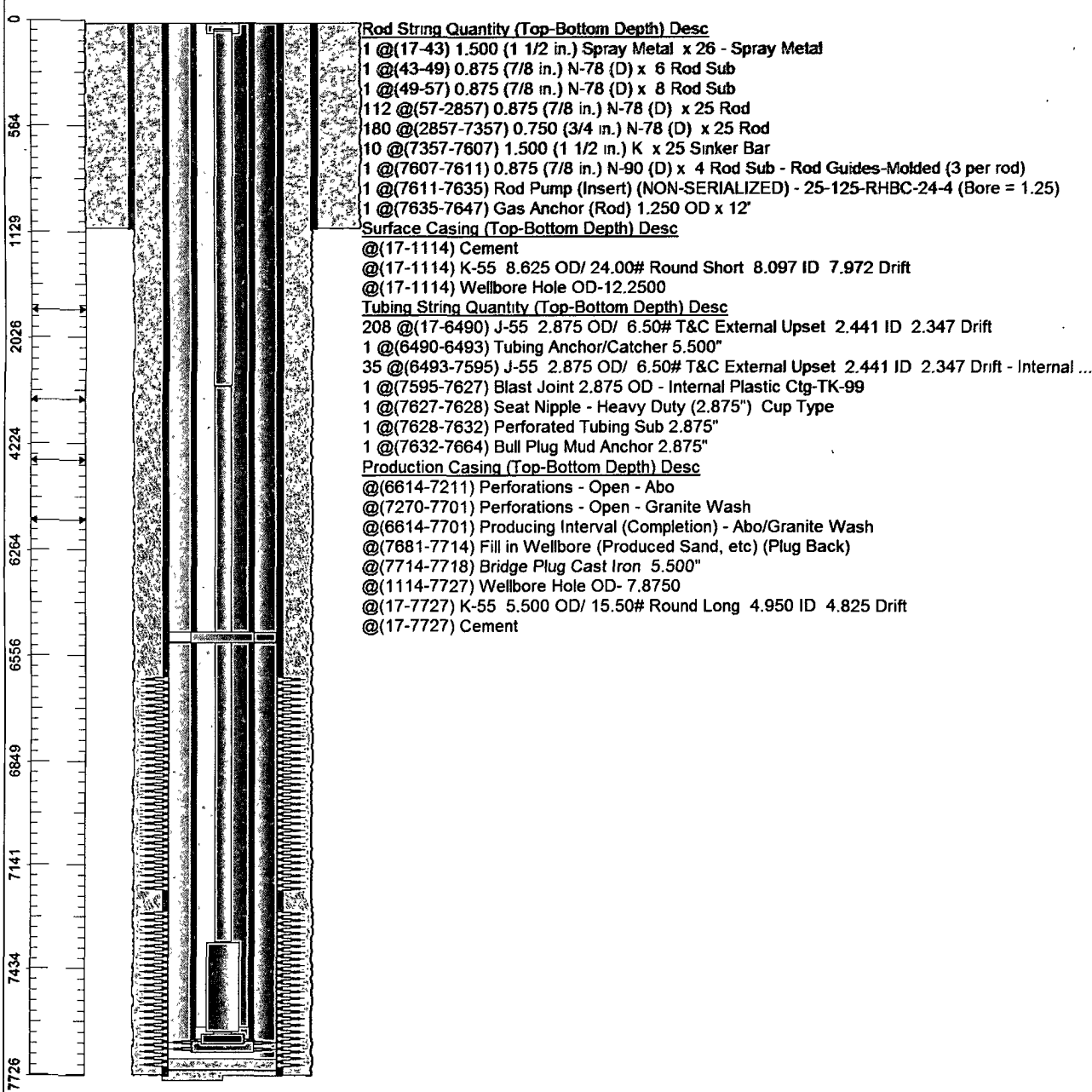


Perfs Detail				
Top ft	Bottom ft	Interval Length ft	Status	Reservoir
6,614	6,618	4	Open	Abo
6,652	6,658	6	Open	Abo
6,734	6,788	6	Open	Abo
6,840	6,902	7	Open	Abo
6,939	6,941	2	Open	Abo
6,958	6,960	2	Open	Abo
6,989	6,991	2	Open	Abo
7,036	7,068	4	Open	Abo
7,099	7,101	2	Open	Abo
7,107	7,109	2	Open	Abo
7,120	7,122	2	Open	Abo
7,131	7,133	2	Open	Abo
7,142	7,144	2	Open	Abo
7,155	7,157	2	Open	Abo
7,200	7,202	2	Open	Abo
7,204	7,206	2	Open	Abo
7,209	7,211	2	Open	Abo
7,270	7,272	2	Open	Granite Wash
7,277	7,279	2	Open	Granite Wash
7,284	7,289	5	Open	Granite Wash
7,320	7,322	2	Open	Granite Wash
7,324	7,326	2	Open	Granite Wash
7,331	7,334	3	Open	Granite Wash
7,337	7,344	7	Open	Granite Wash
7,347	7,357	10	Open	Granite Wash
7,362	7,368	6	Open	Granite Wash
7,382	7,392	10	Open	Granite Wash
7,401	7,405	4	Open	Granite Wash
7,414	7,420	6	Open	Granite Wash
7,445	7,447	2	Open	Granite Wash
7,624	7,682	7	Open	Granite Wash
		0		
		0		
		0		
		0		
		0		
Total				
6,614	7,682	119		

1,068

## Chevron U.S.A. Inc. Wellbore Diagram : HUGH12-P

<b>Lease:</b> OEU EUNICE		<b>Well No.:</b> HUGH 12	<b>Field:</b> WANTZ	
<b>Location:</b> 2310FNL330FEL		<b>Sec.:</b> N/A	<b>Blk:</b>	<b>Survey:</b> N/A
<b>County:</b> Lea	<b>St.:</b> New Mexico	<b>Refno:</b> EP8908	<b>API:</b> 3002525739	<b>Cost Center:</b> UCU523000
<b>Section:</b> 14		<b>Township:</b> 022 S		<b>Range:</b> 037 E
<b>Current Status:</b> ACTIVE			<b>Dead Man Anchors Test Date:</b> 09/19/2007	
<b>Directions:</b>				



Ground Elevation (MSL):: 3331.00	Spud Date: 02/25/1977	Compl. Date: 06/30/2000
Well Depth Datum:: CSI0000N	Elevation (MSL):: 0.00	Correction Factor: 16.50
Last Updated by: bujq	Date: 08/28/2012	