

Office :

Energy, Minerals and Natural Resources

Revised August 1, 2011

District I - (575) 393-6161

1625 N French Dr., Hobbs, NM 88240

District II - (575) 748-1283

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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

DEC 02 2011

1220 South St. Francis Dr.

Santa Fe, NM 87505

RECEIVED

## 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 : 2485 feet from the NORTH line and 330 feet from the EAST line

Section 32

Township 21-S

Range 37-E

NMPM

County LEA

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

WELL API NO.

30-025-38782

5. Indicate Type of Lease

STATE ☐FEE ☒

6. State Oil &amp; Gas Lease No.

7. Lease Name or Unit Agreement Name

W.T. MCCOMACK

8. Well Number 26

9. OGRID Number 4323

10. Pool name or Wildcat

PENROSE; SKELLY GRAYBURG

## 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 ACIDIZE &amp; SCALE SQUEEZE

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 ACIDIZE &amp; SCALE SQUEEZE THE GRAYBURG FORMATION IN THE SUBJECT WELL, USING THE SONIC HAMMER TOOL.

PLEASE FIND ATTACHED, THE INTENDED PROCEDURE, WELLBORE DIAGRAMS, &amp; C-144CLEZ 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: 11-30-2011

Type or print name DENISE PINKERTON

E-mail address: leakejd@chevron.com

PHONE: 432-687-7375

## For State Use Only

APPROVED BY:

TITLE

State Manager

DATE

12-5-2011

Conditions of Approval (if any).

DEC 05 2011

W.T. McComack 26  
Penrose Skelly - Grayburg  
T21S, R37E, Section 32  
Job: Sonic Hammer, Acidize & Scale Squeeze

11.22.2011

**Procedure:**

1. Verify that well does not have pressure or flow. If well has pressure, record tubing and casing pressures. 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. POOH with rods & pump. 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.
3. TAG for fill (TAC 3,592', Bottom Perfs 3,918', EOT 4,165', PBTD 4,256'). POOH while scanning 2-7/8" prod tbg. LD all non-yellow band joints. If fill is tagged above 4,200' continue to step 4; otherwise, skip to step 6. **Strap pipe out of the hole to verify depths.** Send scan log report to [hccf@chevron.com](mailto:hccf@chevron.com).
- **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.**
4. PU and RIH with 4-3/4" MT bit, 3-1/2" drill collars on 2-7/8" 6.5# L-80 WS. RU power swivel and clean out to PBTD at 4,256'. POOH w/ 2-7/8" tbg string and bit. LD bit & BHA.  
  
Note: if circulation is not expected, notify Remedial Engineer to discuss CO with air/foam unit or bailer (skip to step 5).
5. PU and RIH 4-3/4" MT bit and bailer on 2-7/8" 6.5# L-80 WS to CO to 4256' or as deep as possible. POOH and LD bit and bailer.
- **Expect trapped pressure inside tubing while breaking connections during bailing, discuss on JSA and mitigate the hazard. Use mudbucket (remove bottom seals) while breaking connections.**
6. Contact sonic tool rep to be on site during job. PU and GIH with Sonic Hammer tool and 2-7/8" L-80 6.5#, work string to 3,918' or below the perforations. Hydro test tbg to 6,000 psi while GIH. Stand back tbg to top perfs. Install stripper head and stand pipe with sufficient treating line to move tools vertically ~ 65'. Rig up pressure gauges to allow monitoring of tbg and csg pressure.
7. MI & RU Petroplex. Treat 4 intervals from 3,668' to 3,918' with 50 bbls of 8.6 ppg cut brine water per interval (stand). Pump down 2-7/8" WS and through Sonic Hammer tool at **5 BPM** while reciprocating tool across the perforating interval. Do not exceed 500 psi casing pressure. Leave annulus open in circulation mode while treating the perforated interval with water.

Follow the 8.6 ppg cut brine water w/ 1,500 gals 15% NEFE HCl acid per interval. Ensure that enough tbg is made up to cover each ~65' treating interval. Spot 3 bbls of acid outside tbg, shut in and close csg, pump acid @ 5 BPM over first treatment interval from 3,668' to 3,727', monitor csg pressure and do not exceed 500 psi on backside. Ensure that 1,500 gal of acid is pumped across each ~65' perfs treatment interval. Flush tbg w/ 8.6 cut brine, make a connection and continue w/ next intervals. See the table below for intervals.

Interval	Depth	Volume
1	3,668' - 3,727'	1,500 Gal
2	3,731' - 3,787'	1,500 Gal
3	3,790' - 3,849'	1,500 Gal
4	3,853' - 3,918'	1,500 Gal

Shut in for 1 hrs for the acid to spend. Bleed excess pressure off at surface if necessary to keep casing pressure below 500 psi. Release Petroplex.

8. Pump down 2-7/8" tbg and through Sonic Hammer tool at **5 BPM** from 3,918'-3,852' with a total of 200 bbls 8.6 PPG cut brine water containing 3 drums (165 gallons) Baker SCW-358 Scale Inhibitor (50 bbls per interval). Ensure top of tbg is flushed with water before making a connection. Continue with next interval.

Interval	Depth	Volume
1	3,918' - 3,853'	50 bbl
2	3,849' - 3,790'	50 bbl
3	3,787' - 3,731'	50 bbl
4	3,727' - 3,668'	50 bbl

PU to top of perfs. 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.

9. POH & LD 2-7/8" WS and Sonic Hammer tool.
10. RIH w/ 2-7/8" production tubing and hang off per ALS recommendation. NDBOP. NUWH. RIH w/ rods and pump per ALS. RD and release workover unit.
11. Turn well over to production. Report producing rates, choke sizes, flowing pressures and/or fluid levels.

Well **W. T. McComack # 26**Field **Penrose Skelly**Reservoir **Grayburg****Location:**

2485' FNL & 330' FEL  
 Section: 32  
 Township 21S  
 Range 37E  
 County Lea State. NM

**Elevations:**

GL: 3455'  
 KB 3466'  
 DF 3465'

**Current**  
**Wellbore Diagram**

**Well ID Info:**

Cheveno LD8353  
 API No: 30-025-38782  
 L5/L6. UCU491900  
 Spud Date: 7/6/2008  
 Compl Date:

Surf. Csg: 8 5/8", 24#, J-55  
 Set: @ 461' w/ 475 sks  
 Hole Size: 11"  
 Circ: Yes TOC: Surface  
 TOC By: Circulated

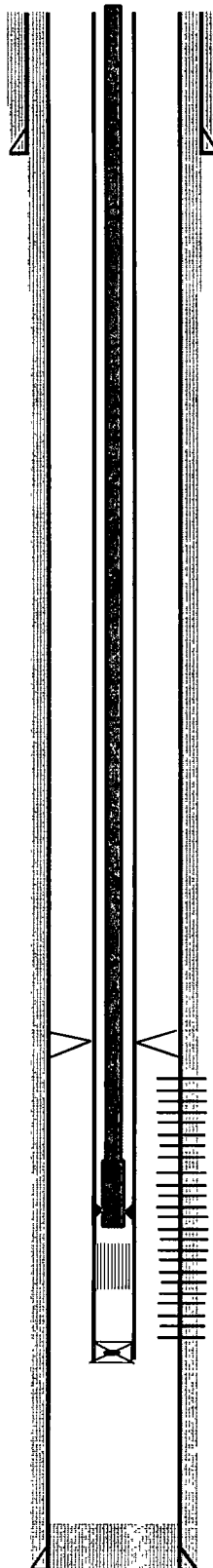
This wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of the update date below. Verify what is in the hole with the well file in the Eunice Field Office. Discuss w/ WEO Engineer, WO Rep, OS, ALS, & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.

**ROD DETAIL: WELLVIEW 9/14/09**

1	1 1/2" C SPRAYLOY PR	9
1	1" 2" PONY ROD	26
1	1" 4" PONY ROD	2
1	1" 6" PONY ROD	4
1	1" 8" PONY ROD	6
1	1" 8" PONY ROD	8
63	1"D SUCKER RODS D-90	1575
83	7/8" D SUCKER RODS D-90	2075
14	1 1/2" K SINKER BARS	350
1	7/8" PONY ROD	4
1	1 3/4" ROD INSERT PUMP 20'	20
		<hr/> 4079

**Tubing Detail: WELLVIEW 9/14/09**

#Jts:	Size:	Footage
113	2 7/8" 6 5# J-55	3589 50
1	4 89 TAC	2.70
14	2 7/8" 6 5# J-55	441 32
1	2 7/8" BLAST JT	32 27
1	2 7/8" IPC PUP JT	12 00
1	2 7/8" PUMP SN	1 10
1	2 7/8" PUP JT	4 00
1	2 3/8" CAVINS DESANDER	19 27
2	2 7/8" 6 5# J-55	62 26
1	2 3/8" DUMP VALVE	0 80
<hr/> 136	<b>Bottom Of String &gt;&gt;</b>	<hr/> 4165.22

**Grayburg Perforations**

4 SPF F TOTAL OF 580 HOLES

3668-72'	3675-78'
3682-92'	3695-99'
3702-12'	3724-27'
3731-41'	3761-71'
3777-87'	3790-98'
3802-05'	3808-18'
3821-26'	3830-35'
3839-49'	3852-62'
3865-69'	3874-81'
3885-90'	3901-08'
3911-18'	

COTD: 4256'  
 PBTD: 4256' (float collar)  
 TD: 4298'

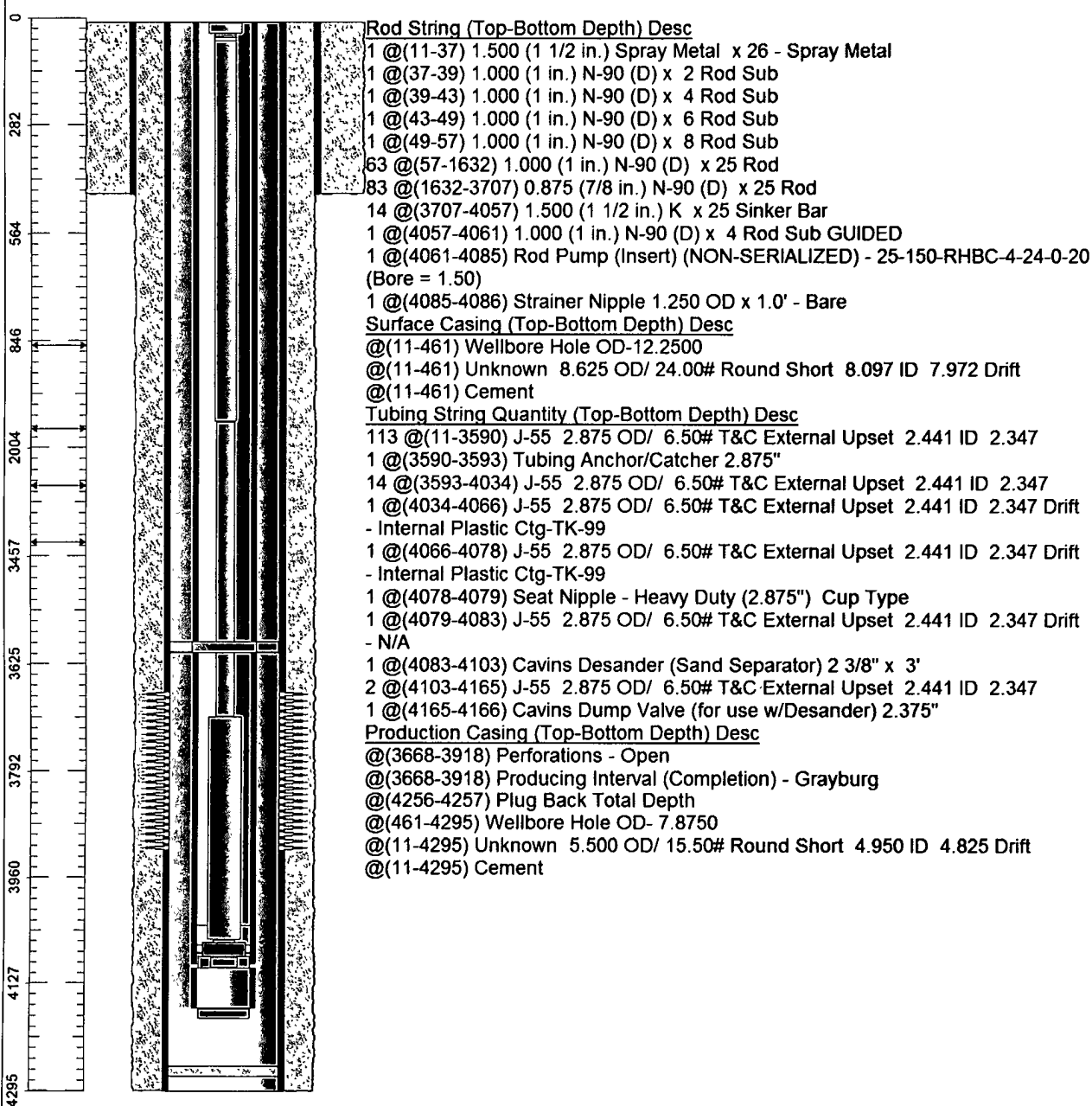
Updated: 10/11/2011

By: SEHE

Prod. Csg: 5 1/2", 15.50#, J-55  
 Set: @ 4295' w/ 1250 sks  
 Hole Size: 7 7/8"  
 Circ: Yes TOC: Surface  
 TOC By: Circulated

## Chevron U.S.A. Inc. Wellbore Diagram : WTMCCOMACK 26G

<b>Lease:</b> OEU EUNICE		<b>Well No.:</b> MCCOMACK W T 26		<b>Field:</b> FLD-PENROSE SKELLY	
<b>Location:</b> 2485FNL330FEL		<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> LD8353		<b>API:</b> 3002538782	<b>Cost Center:</b> UCU491900
<b>Section:</b>		<b>Township:</b> N/A			<b>Range:</b> N/A
<b>Current Status:</b> ACTIVE				<b>Dead Man Anchors Test Date:</b> NONE	
<b>Directions:</b>					



<b>Ground Elevation (MSL)::</b> 3455.00	<b>Spud Date:</b> 07/06/2008	<b>Compl. Date:</b> 07/31/2008
<b>Well Depth Datum::</b> CSI0000N	<b>Elevation (MSL)::</b> 0.00	<b>Correction Factor:</b> 11.00
<b>Last Updated by:</b> jackssl	<b>Date:</b> 10/01/2009	