Submit 1 Copy To Appropriate District 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

State of New Mexico
Energy, Minerals and Natural Resources

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MAY 07 2013
MOBBSOCD

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

Form C-103
Revised August 1, 2011

WELL API NO. 30-025-25796	
5. Indicate Type of Lease STATE ☒ FEE ☐	
6. State Oil & Gas Lease No.	
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.)	7. Lease Name or Unit Agreement Name CENTRAL VACUUM UNIT
1. Type of Well: Oil Well ☒ Gas Well ☐ Other INJECTOR	8. Well Number 106
2. Name of Operator CHEVRON U.S.A. INC.	9. OGRID Number 4323
3. Address of Operator 15 SMITH ROAD, MIDLAND, TEXAS 79705	10. Pool name or Wildcat VACUUM G/B SAN ANDRES
4. Well Location Unit Letter E: 2520 feet from the NORTH line and 1040 feet from the WEST line Section 6 Township 18-S Range 35-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:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
OTHER: INTENT TO CLEAN OUT & RTI		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 INTENDS TO CLEAN OUT THE SUBJECT WELL AND RETURN TO INJECTION.

PLEASE FIND ATTACHED, THE INTENDED PROCEDURE, WELLBORE DIAGRAM, & C-144 INFORMATION.

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 Denise Pinkerton TITLE: REGULATORY SPECIALIST DATE: 05-07-2013

Type or print name: DENISE PINKERTON E-mail address: leakejd@chevron.com PHONE: 432-687-7375

APPROVED BY [signature] TITLE Dist. Mgr DATE 5-8-2013
Conditions of Approval (if any):

MAY 20 2013

CVU 106
API No. 30-025-25796
Vacuum (Grayburg-San Andres) Field
Lea County, NM

Workover Procedure

PREWORK:

1. Utilize the rig move check list.
2. Check anchors and verify that pull test has been completed in the last 24 months.
3. Ensure location of & distance to power lines is in accordance with MCA 5WP. Complete and electrical variance and electrical variance RUMS if necessary.
4. Ensure that location is of adequate build and construction.
5. Ensure that elevators and other lifting equipment are inspected. Caliper all lifting equipment at the beginning of each day or when sizes change.
6. When NU anything over and open wellhead (EPA, etc.) ensure the hole is covered to avoid dropping anything downhole
7. **For wells to be worked on or drilled in an H2S field/area, include the anticipated maximum amount of H2S that an individual could be exposed to along with the ROE calculations for 100 ppm and 500ppm.**
8. If the possibility of trapped pressure exists, check for possible obstructions by:
    - Pumping through the fish/tubular – this is not guaranteed with an old fish as the possibility of a hole above the obstruction could yield inconclusive results
    - Dummy run – Consult with remedial engineer before making any dummy run. Make a dummy run through the fish/tubular with sandline, slickline, eline or rods to verify no obstruction.

    If unable to verify that there is no obstruction above the connection to be broken, or if there is an obstruction:

    - Hot Tap at the connection to check for pressure and bleed off

Observe and watch for signs / indicators of pressure as connection is being broken. Use mud bucket (with seals removed) and clear all non-essential personnel from the floor.

WELLWORK: **Insure well has been back flowed and surface pressure is less than 500 psi**

1. Rig up pulling unit. Check wellhead pressure and kill well if necessary.
2. Pump tubing volume of 10 ppg brine. Check pressures for KWM calculations. Rig up wire line truck. Run in perforating gun and perforate the 2-3/8" duoline injection tubing at 4130'.
3. Circulate kill mud. Ensure that the tubing and casing are dead.
4. ND wellhead. NU 5,000 psi BOP with 2-3/8" pipe rams over blinds.
5. Release packer. POH w/ 1 jt. Tubing. PU and GIH w/ 4-1/2" test packer. Set test packer @~25'. Test BOP to 250 psi/500 psi. POH w/ test packer and 2-3/8" duoline injection tubing and packer. Scan duoline tubing coming out of the hole. Lay down bad joints of injection tubing. Provide summary of tubing inspection in Wellview.
6. TIH w/ 3-7/8" mill tooth bit, 6 3-1/8" drill collars on 2-3/8" 4.7# L-80 EUE workstring.
7. Rig up reverse unit and power swivel. Clean out 4-1/2" casing to 4765' (PBTD).
8. Circulate hole clean and TOH.
9. TIH w/ 4-1/2" treating packer and SN on 2-3/8" workstring and set at 4100'.
10. Pump 1000 gallons xylene and displace to the packer with fresh water. Drop standing valve, Pressure tbg to 500psi against SV and allow xylene to soak overnight.
11. PU Lubricator & test on catwalk to 1000 psi. Install lubricator. GIH and fish standing valve and POH. Flow/swab back xylene.
12. MIRU acidizing company (Petroplex) test lines to 5000psi. Acidize perfs 4238'-4720' with 10,000 gallons 15% NEFE HCL containing 4 gpt StimOil IOR product and 10 gpt MFS-IOR product. Note: acid additives will be purchased from CESI chemical. Paul Brown will coordinate purchase and delivery of the chemicals to Petroplex. Acidize in 5 stages using rock salt in gelled 10# BW as diversion between stages. Pump acid at 5 BPM. Maximum Pressure = 4,000 psi. Pressure BS to 400 psi (set pop-off to 500 psi) and monitor for communication. Flush acid to bottom perf @ 4720'.
13. Shut in well over night.
14. Open well up to flow back load.
15. Release packer and TOH w/ workstring. LD treating packer.

Back on Inj - 4/29/13

CVU 106
API No. 30-025-25796
Vacuum (Grayburg-San Andres) Field
Lea County, NM

16. TIH w/ 3-7/8" bit on workstring and wash out salt bridges. TOH, LD WS and bit.
17. TIH w/ new 4-1/2" Arrowset Injection packer w/ pump-out plug in place and on-off tool on 2-3/8" duoline injection tubing.
18. Set packer at 4138'. Unlatch from on-off tool and circulate packer fluid.
19. Latch back onto packer.
20. Pressure test backside to 500 psi and hold for 30 minutes. (Pre-MIT).
21. Bleed off pressure. ND wellhead. NU BOP. Pressure to blow pump-out plug.
22. Notify OCD of upcoming MIT. Install chart recorder. Pressure test back side to 500 psi for 32 minutes to satisfy the requirements for an official MIT. Send the chart to Denise Pinkerton (Regulatory Analyst).
23. Rig down pulling unit.
24. Notify the injection specialist that the workover has been completed and that the well is being handed over to operations.
25. Write work order to reconnect the injection line.
26. File C-103 Subsequent Report with MIT chart attached to the OCD.
27. Place well on injection.

PTB 11/5/12

Contacts:

Paul Brown Production Engineer 432-687-7351

Larry Birkelbach Remedial Engineer 432-687-7650 cell 432-208-4772

Wellbore Diagram

CVU 106

Created:	07/17/08	By:	JSS
Updated:	11/01/12	By:	PTB
Lease:	Central Vacuum Unit		
Field:	Central Vacuum Unit		
Surf. Loc.:	2520' FNL, 1040' FWL		
Bot. Loc.:			
County:	Lea	St.:	NM
Status:	Water Injection Well		

Well #:	106	St. Lse:	B-1113-1
API	30-025-25796		
Unit Ltr.:	E	Section:	6
TSHP/Rng:	S-18 E-35		
Unit Ltr.:		Section:	
TSHP/Rng:			
CHEVNO:	EP9941		
Directions:	Buckeye, NM		

Surface Csg.

Size:	13 3/8"
Wt.:	48# K-55
Set @:	350'
Sxs cmt:	400
Circ:	Yes
TOC:	surface
Hole Size:	17 1/2

Intermediate Csg.

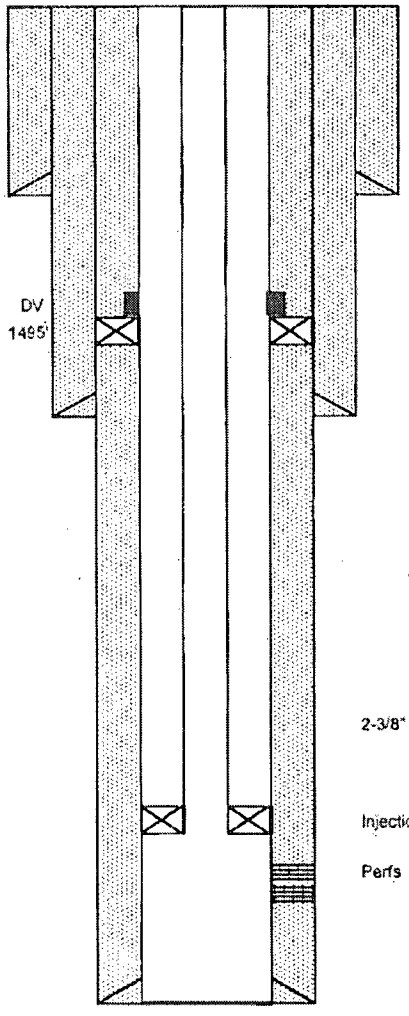
Size:	9 5/8"
Wt.:	36#
Set @:	1500'
Sxs Cmt:	800
Circ:	Yes
TOC:	surface
Hole Size:	12 1/4

Intermediate Csg.

Size:	7"
Wt.:	23# K-55
Set @:	2709'
Sxs Cmt:	500
Circ:	yes
TOC:	surface
Hole Size:	8 3/4

Production Csg.

Size:	4 1/2"
Wt.:	10.5# K-55
Set @:	4800'
Sxs Cmt:	800
Circ:	yes
TOC:	surface
Hole Size:	7 7/8



PBTD: 4765'
TD: 4800'

KB:	3982'
DF:	NA
GL:	3972'
Inl. Spud:	4/24/1978
Inl. Comp.:	2/28/1979

Perf. and Stimulation History:
CVU 106
2/28/79 New well perfs 4352, 58, 64, 75, 78, 82, 4421, 48, 57, 69, 75, 93, 99, 4505, 11, 17, 28, 34, 39, 42, 56, 62, 75, 80, 86, 90, 4609, 18, 25, 32, 40, 45, 57, 62, 75, 78, 89, 95, 4700, 03, 10, 13, 20' 88 holes w/4 JSPF. Acidize w/9600 gals 15% NEA. S.I. WIW.
3/1/79 Ran 2 3/8" duo-lined tbg, 139 jts. @ 4310'; set pkr. @ 4320.
7/30/83 Acidize perfs. 4352-4720' w/500 gals acid/bleach.
5/8/85 Re-Perf 4352-4720' w/4 JSPF. Acidize 4352-4720' w/10000 gals 20% GLD.
12/1/92 Accum. Inj. 2117 MBWI as of 12/92.
11/20/93 Perf. from 4238, 46, 51, 58, 62, 97, 99, 4303, 06, 08, 4404, 10, 16'.
11/22/93 Acidize perfs 4238-4416' w/9000 gals 20% NEFE HCL and 4000# RS. Avg.=1700, Max.=1800, Avg. rate 4 bpm, ISIP=1000.
11/28/93 Test: 1570 BPD at 940 psi, final report.
4/09 Tagged @ 4216'. Tbg. press 1775.

Wellbore Diagram

CVU 106

Created:	07/17/08	By:	JSS
Updated:	11/01/12	By:	PTB
Lease:	Central Vacuum Unit		
Field:	Central Vacuum Unit		
Surf. Loc.:	2520' FNL & 1040' FWL		
Bot. Loc.:			
County:	Lea	St.:	NM
Status:	Water Injection Well		

Well #:	106	St. Lse:	B-1113-1
API	30-025-25796		
Unit Ltr.:	E	Section:	6
TSHP/Rng:	18S / 35E		
Unit Ltr.:		Section:	
TSHP/Rng:			
CHEVNO:	EP9941		
Directions:	Buckeye, NM		

Surface Csg.

Size:	13 3/8"
Wt.:	48# K-55
Set @:	350'
Sxs cmt:	400
Circ:	Yes
TOC:	surface
Hole Size:	17 1/2

Intermediate Csg.

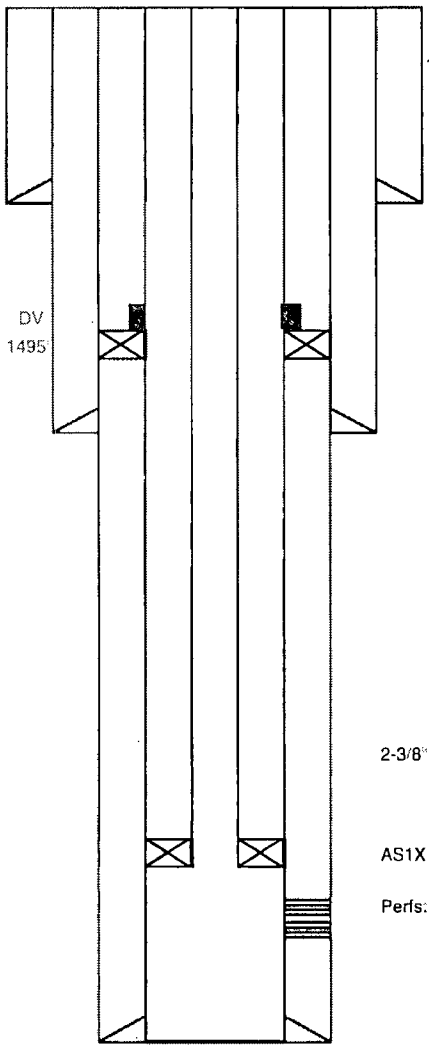
Size:	9 5/8"
Wt.:	36#
Set @:	1500'
Sxs Cmt:	800
Circ:	Yes
TOC:	surface
Hole Size:	12 1/4

Intermediate Csg.

Size:	7"
Wt.:	23# K-55
Set @:	2709'
Sxs Cmt:	500
Circ:	yes
TOC:	surface
Hole Size:	8 3/4

Production Csg.

Size:	4 1/2"
Wt.:	10.5# K-55
Set @:	4800'
Sxs Cmt:	800
Circ:	yes
TOC:	surface
Hole Size:	7 7/8



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KB:	3982'
DF:	NA
GL:	3972'
Ini. Spud:	4/24/1978
Ini. Comp.:	2/28/1979

Perf. and Stimulation History:
CVU 106
2/28/79 New well perfs. 4352, 58, 64, 75, 78, 82, 4421, 48, 57, 69, 75, 93, 99, 4505, 11, 17, 28, 34, 39, 42, 56, 62, 75, 80, 86, 90, 4609, 18, 25, 32, 40, 45, 57, 62, 75, 78, 89, 95, 4700, 03, 10, 13, 20' 86 holes w/4 JSPF. Acidize w/9600 gals 15% NEA. S.I. WIW.
3/1/79 Ran 2 3/8" duo-lined tbg. 139 jts. @ 4310'. set pkr. @ 4320'.
7/30/83 Acidize perfs. 4352-4720' w/500 gals acid/bleach.
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11/22/93 Acidize perfs. 4238-4416' w/9000 gals 20% NEFE HCL and 4000# RS. Avg.=1700, Max.=1800, Avg. rate 4 bpm, ISIP=1000.
11/28/93 Test: 1570 BPD at 940 psi. final report.
4/09 Tagged @ 4218'. Tbg. press 1775.
3/13 CO to 4,743'. Acidize with 10,000g 15%. RIH w/ new AS1X packer and 2-3/8" Fiberlined tubing

2-3/8" Fiberlined Tubing

AS1X Pkr @ 4137' w/ 1.43" F Profile & O:O Tool

Perfs: 4238' - 4720'

CVU 106
API No. 30-025-25796
Vacuum (Grayburg-San Andres) Field
Lea County, NM

Engineering Comments

It is recommended that the subject well be cleaned out for fill, treated for downhole solids removal, acidized and returned to injection. The last TD check on the well was performed October 2011 and it was found to be at 4190' which is 48' above the top perf. It is not expected that the casing is full of fill as the high tag is most likely deteriorated casing below the packer. There is, however, accumulated downhole fines material and oil from years of injection that is causing plugging and can be affecting the injection conformance. The last time that the well was pulled was in 1993. At that time the well was cleaned out, perfs were added and the entire interval was acidized.

The subject well is currently injecting 623 BWPD at 1923 psi which is the maximum injection plant pressure. Project economics are based on the expectation of the increasing the injection rate by 400 BWPD. This injection rate increase, assuming that the IWR stays at 1.50 will result in a maximum 9 BOPD production increase in the injection pattern and the recovery of 17 MBO.

PTB 11/2/12