

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103

October 13, 2009

HOBBS OCD

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

APR 26 2012

WELL API NO.

30-025-21649

5. Indicate Type of Lease

STATE ☒FEE ☐

6. State Oil &amp; Gas Lease No.

7. Lease Name or Unit Agreement Name

VACUUM GLORIETA WEST UNIT

8. Well Number 14

9. OGRID Number 4323

10. Pool name or Wildcat

VACUUM; GLORIETA

## 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 B: 800 feet from the NORTH line and 2310 feet from the EAST line

Section 25

Township 17S

Range 34E

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: WATER SHUT OFF

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 INSTALL A SWELL PACKER &amp; SHUT OFF WATER PRODUCTION.

PLEASE FIND ATTACHED, THE INTENDED PROCEDURE, WELLBORE DIAGRAM, &amp; 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 04-25-2012

Type or print name DENISE PINKERTON

E-mail address: leakejd@chevron.com

PHONE: 432-687-7375

**For State Use Only**APPROVED BY: [Signature] TITLE STAFF MGRDATE 4-30-2012

Conditions of Approval (if any):

MAY 01 2012

## **VGWU 14**

**API No. 30-025-21649**

### **Procedure to Install swell Packer**

**Note:** Purchase new 2 7/8" L-80 production tubing, which will also be used as a workstring.

1. MIRU PU.
2. Load casing with 10 BW. Record tubing and casing pressure for kill weight mud calculations. Kill well as necessary. Open surface/intermediate risers & check for pressure; bleed off as necessary and leave open throughout well work.
3. Ensure well is dead and ND wellhead.
4. Install 5K hydraulic w/ 3K annular BOP (blind rams in bottom and 2-7/8" pipe rams in top) pull 2 jts, cut cable, band cable to tubing, PU packer, RIH 1 jt, test BOP, release pkr, POH and LD.
5. Caliper and inspect elevators and lifting equipment. RU Centrilift tubing spooler. TOH lay down 2 7/8" J-55, 6.5# production tubing. Send ESP to Centrilift for inspection/ rebuild. Send the used 2 7/8" J-55 tbgs to the Buckeye Field office lay down yard. Verify the racks are set up to lay down the 2 7/8" J-55 tubing.
6. PU 4-3/4" MT bit, bit sub, bent sub, 1100' 2-7/8" PH-6 or AOH on 2 7/8" L-80 new production tubing. TIH & Tag CIBP @ 5901'. Work bit into window.
7. RU Rvrs unit. Clean out to PBTD @ 6910' (Top of 2-7/8" tubing fish)
8. TOH stand back 2 7/8" L-80 production tubing, LD PH-6 or AOH and bit.
9. MI Halliburton. PU and install Swell Packer System as follows (refer to the attached Halliburton Swell Packer Installation document):
  - a. PU & RIH with swell packer assembly as follows (Land the top of the element at 5910'. Target depth for 5M Swellpacker is 5910'-5927'):

Note: RIH with Swellpacker assembly consisting of a 4.5" OD x 5M length Swellpacker on a joint of 2 3/8" 13 Chrome 4.7# BTS-8 tubing. The crossover from tubing to the XXL gudgeon will be made from L-80 Material that will be nickel plated. The XXL on/off tool will be nickel plated. Chevron will run a GR/CCL log to correlate the Swellpacker setting depth. The Swellpacker

assembly will be allowed to remain in the hole until time to fully swell has been achieved. After this time we will release from the XXL gudgeon and RIH with the remaining scab assembly.

- i. 2 3/8" EUE Mule Shoe Guide (Supplied by Halliburton)
- ii. 8' x 2 3/8" EUE Bent Sub J-55 (Supplied by Halliburton)
- iii. 2 3/8" BTS-8 Box x 2 3/8" EUE Pin Crossover L-80 NP (Supplied by Halliburton)
- iv. 2 3/8" x 4.5" x 5M WS Swellpacker on 13 Chrome Tubing (Supplied by Halliburton)
- v. 2 7/8" EUE Box x 2 3/8" BTS-8 L-80 Crossover NP (Supplied by Halliburton)
- vi. 5 1/2" x 2 7/8" XXL On/Off Tool w/ 1.875" Type F Profile Too NP (Supplied by Halliburton)
- vii. 2 3/8" Box x 2 7/8" EUE Pin Crossover NP (Supplied by Halliburton)
- viii. 4' x 2 3/8" EUE L-80 Perforated Tubing Sub (Supplied by Halliburton)
- ix. 2 7/8" New EUE L-80 production tubing to surface(Supplied by Chevron)

10. Space out w/ pup jts & ND BOP. NU B1 Flange.

11. RDMO Pulling unit.

**12. Wait one month for swell packer to fully swell.**

13. MIRU pulling unit

14. Ensure well is dead. ND B1 Flange. NU 5K Hydraulic BOP stack.

15. Release from XXL on/off tool and POOH with XXL overshot and 2 7/8" EUE L-80 production tubing.

16. PU Halliburton scab assembly as follows:

Note: RIH with XXL overshot on scab tuing and PLT packer. XXL gudgeon has ~1.5' of sealing surface. XXL overshot will have the J-slot wiped out on this run. Land XXL overshot and pick up setting stroke for PLT packer. After setting PLT, release overshot from XL on/off tool above PLT and POOH.

- a. XXL overshot on 2-7/8" EUE IPC TK15 / Ryt-wrapped scab tubing (space out so that upper packer is set @ 4845'). (Supplied by Chevron)
- b. 5 1/2" x 2 7/8" 14# PLT Packer NP-OD PC-ID set at 4845' (Supplied by Halliburton)
- c. 2 7/8" XL Gudgeon NP.

\*\*\* Prior to engaging the swell packer and prior to setting the packer, circulate 40 bbls packer fluid in the annulus between the 2 packers to further inhibit corrosion.

17. RIH w/ existing EUE L-80 production tubing.

Tubing 2 7/8" L-80

1 – 2 7/8" x 4' Marker Sub

2 – Joints 2 7/8" L-80 tubing

1 – 2 7/8" x 5 1/2" TAC @ 4673'

Tbg 2 7/8" L-80

2 – 2 7/8" x 30 Enduroalloy Blast Joints

1 – SS Mechanical Seat Nipple @ 4797' w/ 1 1/4" x 16' Mule Shoed Dip Tube

1 – 2 7/8" x 4' Plastic Coated Tubing Sub

1 – 3 1/2" x 24 Slotted Mud Anchor w/ Bull Plug

End of tubing 4825'

Load Cell – (If Needed) Danny Acosta

18. ND BOP.

19. NU wellhead.

20. RIH w/ pump and rods per attached SROD(Well currently has an ESP).

## Rod Detail

1 – 1 ½" X 26' SM Polish Rod w/1" pin & PR coupling (Garner)  
1 – Set 1" Norris 90 Pony Rods W/SH Tee couplings  
63ea. – 1575' Norris 1" N-90 Rods W/SH Tee couplings  
64ea. – 1600' Norris 7/8" N-90 Rods W/FH Tee couplings  
54ea. – 1350' Norris 3/4" N-90 Rods W/FH Tee couplings  
11ea. – 275' Grade K 15/8" Sinker Bars W/3/4" pins & SHSM boxes  
1 – 4' Guided Pony Sub 3-guides, 7/8" body, ¾" pins (Garner)  
1 – 1.5" Insert Pump (Garner)

1 – 1" x 7/8" crossover coupling  
1 – 7/8" x 3/4" crossover coupling

Garner Pump 575 397-4788

Garner Pump (575-397-4788)

COMPANY NAME - Chevron

WELL - Vacuum Glorieta West Unit # 14

TRIM- 316 Stainless Steel

T/V CAGES - Monel Insert Guided S/V CAGES Monel Insert Guided

VALVE ROD N/A. PULLTUBE Steel-Brass If Needed

TRAVELING VALVES PRI- S/N Ball-Extreme Seat SEC- N/A

STANDING VALVES PRI - S/N Ball-Extreme Seat SEC- N/A

PLUNGER Spray Metal Monel Rin FEET 4' FIT .008

BARRELS 20' METAL- Brass Nickel-Carbide

EXTENSIONS N/A

HOLD DOWN ASSEMBLY - 316 Stainless Steel Mechanical

TOP PLUNGER ADAPTER Monel

API PUMP DESCRIPTION 25-150-RHBM-20-4

COMMENTS - Well will be converted from ESP to Rod Pump  
Build up pump prior to moving on the well  
Run a 1 1/4" x 16' muleshoe dip tube below the SN

21. RDMO PU.

22. Turn well over to production.

Contacts:

Larry Birkelbach – Remedial Engineer (432-208-4772)

Edgar Acero – Production Engineer (432-687-7343 / Cell: 432-230-0704)

Heath Lynch – Drilling Supt (281-685-6188)

Danny Acosta – ALCR (575-631-9033)

Lynn Talley – Halliburton Swell Packer (432-682-4305)



**Edgar Acero**  
**Lynn Talley**  
**432-682-4305**

Installation		Lea County New Mexico		Sales Rep.		Lynn Talley	
		22-Feb-12		Office		432-682-4305	
Installation	Depth	Length	Jts.	Description	OD	ID	
				<p>RIH with Swellpacker assembly consisting of a 4.5" OD x 5M length Swellpacker on a joint of 2 3/8" 13 Chrome 4.7# BTS-8 tubing. The crossover from tubing to the XXL gudgeon will be made from L-80 Material that will be nickel plated. The XXL on off tool will be nickel plated. Chevron will run a GR/CCL log to correlate Swellpacker setting depth. The Swellpacker assembly will be allowed to remain in the hole until time to fully swell has been achieved (min 18 days). After this time we will release from the XXL gudgeon and RIH with the remaining scab assembly.</p>			
				<p>2 3/8" EUE Work String To Surface</p>			
				<p>San Andres Formation At Window Exit Window from 5,895-5,901' 4' x 2 3/8" EUE L-80 Perforated Tubing Sub 2 3/8" Box x 2 7/8" EUE Pin Crossover NP 5 1/2" x 2 7/8" XXL On Off w/1.875" Type F ProfileTool NP 2 7/8" EUE Box x 2 3/8" BTS-8 L-80 Crossover NP</p>	4.380 2.700	1.875 1.995	
				<p>2 3/8" x 4.5" x 5M WS Swellpacker on 13 Chrome Tubing 2 3/8" BTS-8 Box x 2 3/8" EUE Pin Crossover L-80 NP 8' x 2 3/8" EUE Bent Sub J-55 2 3/8" EUE Mule Shoe Guide Glorietta Open Hole</p>	4.500 2.700 2.375 3.060	1.995 1.995 1.995 2.500	

**Target depth  
for 5M  
Swellpacker  
5,910'-5,927'**

# HALLIBURTON



VGWU #14  
Lea County New Mexico  
22-Feb-12

Company Rep.  
Sales Rep.  
Office

Edgar Acero  
Lynn Talley  
432-682-4305

Supplied  
By

Installation		Depth	Length	Jts.	Description	OD	ID
					Release from the XXL on off tool and POOH with XXL overshot and 2 3/8" work string.		
					San Andres Formation At Window Exit Window from 5,895-5,901'		
					5 1/2" x 2 7/8" XXL On Off Tool Gudgeon w/1.875" F Profile	4.380	1.875
					2 7/8" EUE Box x 2 3/8" BTS-8 L-80 Crossover NP	2.700	1.995
					2 3/8" x 4.5" x 5M WS Swellpacker on 13 Chrome Tubing	4.500	1.995
					2 3/8" BTS-8 Box x 2 3/8" EUE Pin Crossover L-80 NP	2.700	1.995
					8' x 2 3/8" EUE Bent Sub J-55	2.375	1.995
					2 3/8" EUE Mule Shoe Guide	3.060	2.500
					Glorietta Open Hole		

HES  
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HES  
HES  
HES



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Lea County New Mexico  
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Supplied  
By

Installation	Depth	Length	Jts.	Description	OD	ID	
				RIH with XL on off tool, PLT packer, scab tubing and XXL overshoot. XXL gudgeon has ~1.5' of sealing surface. XXL overshoot will have the J-slot wiped out on this run. Land XXL overshoot and pick up setting stroke for PLT packer. After setting PLT, release overshoot from XL on off tool above PLT and POOH.			
				2 7/8" XL Gudgeon NP		2.313	HES
				5 1/2" x 2 7/8" 14# PLT Packer NP-OD PC-ID	4.770	2.350	HES
				2 7/8" EUE IPC TK-15 Scab Tubing Ryt-Wrapped			Chevron
				San Andres Formation At Window Exit Window from 5,895-5,901'			
				5 1/2" x 2 7/8" XXL On Off w/1.875" Type F ProfileTool NP	4.380	1.875	HES
				2 7/8" EUE Box x 2 3/8" BTS-8 L-80 Crossover NP	2.700	1.995	HES
				2 3/8" x 4.5" x 5M WS Swellpacker on 13 Chrome Tubing	4.500	1.995	HES
				2 3/8" BTS-8 Box x 2 3/8" EUE Pin Crossover L-80 NP	2.700	1.995	HES
				8" x 2 3/8" EUE Bent Sub J-55	2.375	1.995	HES
				2 3/8" EUE Mule Shoe Guide	3.060	2.500	HES
				Glorietta Open Hole			

# HALLIBURTON

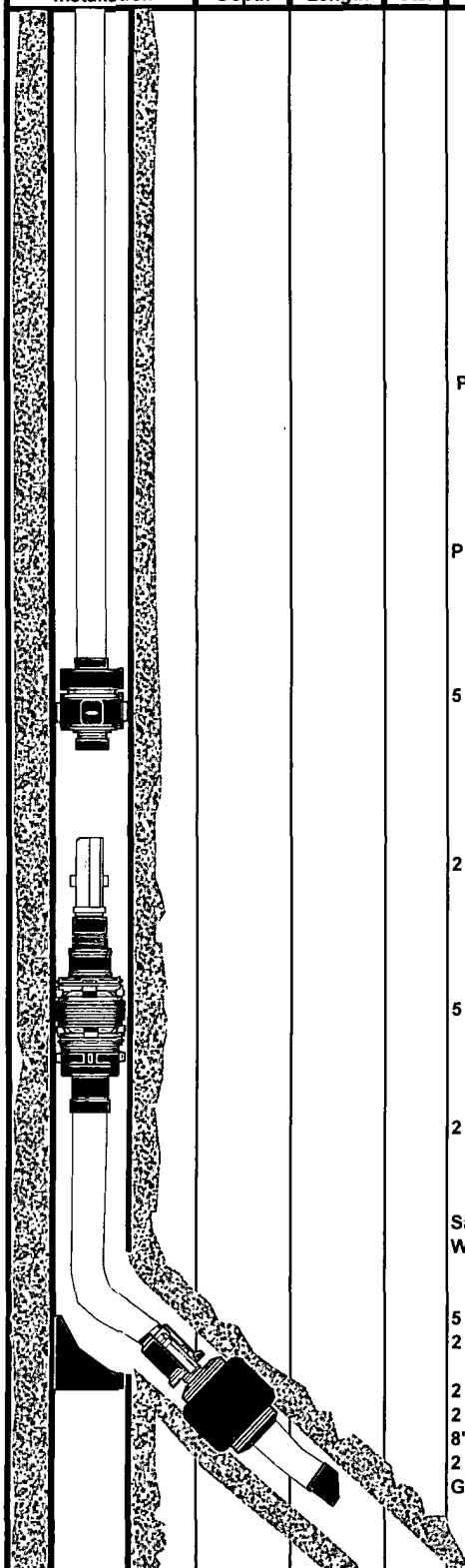


VGWU #14  
Lea County New Mexico  
22-Feb-12

Company Rep.  
Sales Rep.  
Office

Edgar Acero  
Lynn Talley  
432-682-4305

Supplied  
By

Installation		Lea County New Mexico 22-Feb-12			Sales Rep. Office		Lynn Talley 432-682-4305	
Installation	Depth	Length	Jts.	Description	OD	ID		
				PU and RIH with tubing anchor and production assembly.				
				Production String				
				5 1/2" Tubing Anchor				
				2 7/8" XL Gudgeon NP		2.313		
				5 1/2" x 2 7/8" 14# PLT Packer NP-OD PC-ID	4.770	2.350		
				2 7/8" EUE IPC TK-15 Scab Tubing Ryt-Wrapped				
				San Andres Formation At Window Exit Window from 5,895-5,901'				
				5 1/2" x 2 7/8" XXL On Off w/1.875" Type F ProfileTool NP	4.380	1.875		
				2 7/8" EUE Box x 2 3/8" BTS-8 L-80 Crossover NP	2.700	1.995		
				2 3/8" x 4.5" x 5M WS Swellpacker on 13 Chrome Tubing	4.500	1.995		
			2 3/8" BTS-8 Box x 2 3/8" EUE Pin Crossover L-80 NP	2.700	1.995			
			8' x 2 3/8" EUE Bent Sub J-55	2.375	1.995			
			2 3/8" EUE Mule Shoe Guide	3.060	2.500			
			Glorietta Open Hole					

Chevron

Chevron

Chevron

HES

HES

Chevron

HES

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HES

HES

# VGWU #14H Wellbore Diagram

Lease: Vacuum Glorieta West Unit  
 Field: Vacuum Glorieta West Unit  
 Surf. Loc.: 800' FNL & 2,310' FEL  
 Bot. Loc.: 801' FNL & 1,310' FEL  
 County: Lea St.: NM  
 Status: Active Oil Well

Well #: 14H St. Lse: \_\_\_\_\_  
 API: 30-025-21649  
 Unit Ltr.: B Section: 25  
 TSHR/Rng: S-17 E-34  
 Unit Ltr.: A Section: 25  
 TSHR/Rng: S-17 E-34  
 Directions: Buckeye, NM  
 Chevno: FF4689

## Surface Casing

Size: 8 5/8"  
 Wt., Grd.: 24#, J-55  
 Depth: 1592'  
 Sxs Cmt: 900  
 Circulate: Yes  
 TOC: Surface  
 Hole Size: 12 1/4"

## Production Casing

Size: 5 1/2"  
 Wt., Grd.: 14#, J-55  
 Depth: 6,200  
 Sxs Cmt: 1,500  
 Circulate: Yes  
 TOC: Surface  
 Hole Size: 7 7/8"

## Horizontal Section

TOW: 5,895  
 BOW: 5,901  
 MD: 6,956  
 TVD: 6,010  
 Hole Size: 4 3/4"

## Core

6055-76', 6076-97' in 1966

KB: 4,011  
 DF: 4,010  
 GL: 4,002  
 Ini. Spud: 02/14/66  
 Ini. Comp.: 03/09/66

## History

3/9/66 Initial Completion: Perf 1 jspf 6039, 41, 43, 44, 46, 48, 50, 54, 56, 58, 60, 63, 65, 67, 73, 75, 77, 81, 86, 90. AC w/ 1000 gal 15% NE, 1320 0w 92g  
 8/81 Acidize: AC 5500 gal  
 1/89 Add perms. Acidize: Perf 2 jspf 6030-6106. AC w/ 3000 gal 15% NEFE  
 1/95 TA. Set CIBP @ 5920'  
 2/9/01 Sqz. Deepen. Test. TA. DO CIBP. Set cmt rtr @ 5910, Sqz perms 6030-6106' w/ 200 sx, DO cmt, Re-sqz 75 sx, Mill on junk and deepen to 6250, Perf 6150-6200, Acidize w/ 2500 gal 15% NEFE, Sqz 100 sx three times w/ cmt rtr, Perf 5914-66, 5982-6002, AC w/ 4000 gals 15% NEFE, DRY, Set CIBP @ 5864' w/ 35' cmt, TA'd  
 10/01 Horizontal. DO CIBP and cmt @ 5864', Set CIBP @ 5901, Drill lateral to 6956' MD w/ 4 3/4" bit AC w/ 20000 gal 15% acid w/ CT unit, 290 1410w 15g  
 10/05 Shut Off Water: Dress window w/ mill, left 2 7/8" bent sub and 1 jt 2 7/8" in hole, Set Arrowset pkr @ 5788', 4 jts Rire Wrap tbq and OH pkr @ 5922. RTP.  
 4/25/08 TA: water prod jump in Oct 07, suspected OH pkr leak, POOH w/ prod eqp and pkrs. Set RBP @ 5780.

TOW @ 5895'  
 BOW @ 5901'  
 CIBP @ 5901'  
 Perfs 5914-66', 5982-6006'  
 Sqz perms 6039-6200'  
 OH from 6200'-6250'

4 3/4" OH Lateral 1000'  
 TVD 6010' MD 6956'

PBTD: 6,250  
 TD: 6,250