

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

Form C-103  
Revised August 1, 2011

HOBBS OCD

OIL CONSERVATION DIVISION

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

MAY 03 2013

RECEIVED

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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.)		WELL API NO. 30-025-33401
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator CHEVRON U.S.A. INC.		6. State Oil & Gas Lease No.
3. Address of Operator 15 SMITH ROAD, MIDLAND TEXAS 79705		7. Lease Name or Unit Agreement Name WEST DOLLARHIDE DRINKARD UNIT
4. Well Location Unit Letter m : 1150 feet from the SOUTH line and 800 feet from the WEST line Section 33 Township 24S Range 38E NMPM County LEA		8. Well Number 153
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		9. OGRID Number 4323
		10. Pool name or Wildcat DOLLARHIDE TUBB DRINKARD

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 ☐

OTHER: CLEAN OUT, ACIDIZE & SAND FRAC STIM ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

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. intends to clean out acidize & sand frac stimulate subject well.

Please find attached the intended procedure, well bore diagram and C-144 w/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

*Scott Haynes*

TITLE

Permit Specialist

DATE 05/01/2013

Type or print name Scott Haynes

E-mail address: [tox@chevron.com](mailto:tox@chevron.com)

PHONE: 432-687-7198

For State Use Only

APPROVED BY

*Ed Bragdon*

TITLE

*Dist. MGR*

DATE

*5-6-2013*

Conditions of Approval (if any):

MAY 06 2013

**Workover Procedure  
West Dollarhide Drinkard Unit  
Dollarhide Field**

**WBS # UWDOL – R3**  
**WDDU 153**

**API No: 30-025-33401**  
**CHEVNO: BK3006**

**04/10/2013**

**Description of Work:** Cleanout, Acidize and Sand Frac stimulate the Drinkard/Abo

**Current Hole Condition:**

Total Depth: 7200'                      PBTD: 7200' (7132')                      GL: 3177'                      KB: +12'  
All records indicate that hard fill is encountered at 7132' (possibly FC). One report shows a bailer getting down to 7200'. Wellview indicates PBTD is 7150'. For this job, 7132' will be an acceptable PBTD if hard fill is encountered that the bit cannot work through.

**Casing Record:**

8-5/8" 24#, set @ 1170' w/ 525 sx. cmt., Circ.  
5-1/2" 15.5 & 17# L-80, CF-50 & WC-50 csg, set @ 7200' w/ 1635 sx cmt, circ 153 sx

**Existing Perforations:**

Tubb: 6169-6334'  
Drinkard: 6370-6613'  
Abo: 6674-7102'

**CONTACT INFORMATION:**

Jamie Castagno	Production Engineer	Cell: 432-530-5194
Femi Esan	Geologist	Ph: 432-687-7731
Jonathan	D&C Engineer	Cell: 432-557-1464
Phillip R Minchew	ALCR	Cell: 432-208-3677
Aaron Dobbs	Production Specialist	Cell: 505-631-9071

**REGULATORY REQUIREMENTS:**

Submit C-103 Notice of Intent & Subsequent Reports (to be done by engineering staff)

Prepared by: Jamie Castagno (04/10/13)

Reviewed by: Jonathan Paschel (4/19/13)

**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 it safely and do what is best for the well. In the extent that this procedure does not reflect actual operations, please contact RE, PE and Superintendent.**

1. Complete rig move checklist. Check road, ensure anchors have been tested in the last 24 months, and verify powerline for need of variance ahead of time.
2. MIRU. Bleed well down or kill as necessary. Record SICP and SITP. POOH with rods & pump lying down. **Note: Inspect rods while POOH for damage and plan ahead of time to replace.**
- **Caliper elevators and tubular EACH DAY prior to handling tubing/tools and anytime size changes. Note in JSA when and what items are callipered within the task step that includes that work.**
3. Kill well and monitor. ND wellhead. Release TAC, NU dual Hydraulic BOP with blind rams on bottom and 2-7/8" pipe rams on top. LD 1 joint, PU/RIH with 5-1/2" 15-17# rated packer and set it ~ @ 25', test BOP pipe rams to 250 psi/ 1000 psi. Note testing pressures on wellview report. Release and LD packer.
4. TOOH scanning 2-7/8" production tubing per attached tubing detail. **Caliper elevators and tubular EACH DAY prior to handling tubing/tools.** Tally out with tubing and LD bad joints (green and red). Acquire additional tubing if needed to reach PBTD.
5. PU/RIH with 4-3/4" MT bit on 2-7/8" good production tubing. Tag and record fill depth. PU power swivel, C/O to PBTD (7200/7132') and circulate well clean.

**Recover and send samples in a timely manner to Baker Chemical rep and ALCR for analysis (if possible at location). Discuss treatment recommendation with Chemical rep and ALCR. If there is evidence of sulfate scale treat well accordingly; otherwise, continue per procedure.**

6. POOH/LD bit.
7. PU/RIH with 5-1/2" treating PKR on 2-7/8" tubing hydrotesting all tubing (including any new joints) to 5800 psi (5000# if WS is used). Set PKR @ ~ 6150'. Load backside and pressure test to 500 psi.
8. If recommended by chemical rep, spot scale converter/water mix across all CLFK perfs per Chemical rep recommendation. SI to soak scale converter overnight.
  - a. Swab back load of scale converter.
9. MIRU acid contractor. Conduct safety meeting, set up an exclusion zone. RU choke manifold to open top flowback tank. Test lines and equipment to 6000 psi. Pressure up backside to 500 psi. Monitor tubing/casing annulus pressure throughout acid job. Bleed off if casing pressure exceeds 500 psi or flush and shut down if communication occurs. **Set pop-off valve to 5500 psi. Maximum surface pumping pressure of 5800 psi.**
10. Acidize Clfk perforations from 6169-7102' with 12,000 gal 15% NEFe HCl in 4 stages dropping GRS between stages to divert at 1-2 PPG per attached Petroplex procedure.

- a. Load tubing and establish injection rate. Pump 3,000 gal acid (~72 bbls).
  - b. Pump 1000# GRS in Gelled Brine-Water.
  - c. Pump 3,000 gal acid. Monitor pressure for salt action.
  - d. Pump 1000# GRS in Gelled Brine-Water...repeat for a total of 4 acid stages and 3 GRS.
11. Flush acid to bottom perforations. SI well for 1 hour allowing acid to spend. Record ISIP, 5, 10, & 15 minute SIP's.
  12. Swab or flow back to recover 100% of treatment and load volumes or until returns indicate formation fluid and not spent acid, if possible. Kill tubing if necessary. Report acid volumes and pressures on morning wellview report.
  13. Release treating packer, POOH and LD packer. PU/RIH with notched collar and C/O any rock salt to PBTD (7200/7132'). Circulate well with fresh water to dissolve remaining GRS. POOH/LD tubing.
  14. Close blind rams. Change pipe rams from 2-7/8" to 3-1/2". Test BOP w/ 5-1/2" 15-17# rated tension set packer to 250/1000 psi for 5 minutes each. LD packer.
  15. PU/RIH with 10K 5-1/2" AS-1X treating packer, on-off tool, hardened profile nipple and blast joint on 3-1/2" 9.3# L-80 workstring. Hydrotest tubing to 8000 psi while RIH. Set packer at 6050' (approx 110' above top perfs). Pressure test annulus to 500 psi. Nipple up 10K frac valve to BOP. Test frac valve to 8500 psi.
  16. RDMO pulling unit.
  17. Prior to job, verify compatibility with Service Company of all frac fluids to reservoir fluids at temperature of 135 ° F. Send results to Production and Remedial Engineers.
  18. RU flowback crew if location permits. MIRU frac equipment. Conduct safety meeting and set up an exclusion zone. Install pop-off valves downstream of frac crew check valve with manually operated valve below pop-off. Test all service company pressure shutdowns on each pump truck and surface lines to 8000 psi. **Set pop-off in pump to less than 8,000 psi. Install pop-off on 5-1/2" x 3-1/2" annulus and set to 500 psi. Pressure to 300 psi and monitor during frac job.**
- \*Frac to include tracers, to be set up by ProTechnics and logged after cleanout**
19. Establish pump rate into perforations with treated water. Complete sand fracture treatment as per attached frac procedure.

**DO NOT OVERDISPLACE (EVEN TO TOP PERF) UNDER ANY CIRCUMSTANCES.**

20. RDMO frac crew. Shut in at least 24 hours to allow sand to cure and X-linked fluids to break.
21. Flow back well through choke manifold until well dies. Bring well on at 20 bbls/hr and bring up to 50 bbls/hr over the first 12 hours. Continue flowing until well is dead or returns can be put into the flowline.
22. MIRU pulling unit. Test 3-1/2" pipe rams to 500 psi against packer.
23. ND frac valve, release packer, and circulate kill weight fluid. POOH and lay down 5-1/2"

packer and 3-1/2" WS.

- **Caliper elevators and tubular EACH DAY prior to handling tubing/tools and anytime size changes. Note in JSA when and what items are callipered within the task step that includes that work.**

24. Close Blind rams. Change 3-1/2" to 2-7/8" pipe rams. Open blind rams. PU/RIH and set 5-1/2" 15-17# rated packer @ ~ 25' to test 2-7/8" pipe rams to 250 psi / 1000 psi. Release and LD packer.
25. PU/ RIH with 4-3/4" skirted mill tooth bit (bear claw if no bad casing was found) on good 2-7/8" production tubing. Tag top of sand and drill out any sand that has set up in wellbore to previously established PBTD. Circulate well clean. POOH and LD bit and BHA.
26. PU 5-1/2" treating PKR on 2-7/8" production tubing and RIH. Set PKR @ ~6150'.
27. MIRU ProTechnics logging. RIH and log tracers. Correlate with CCL log dated 08/01/02.
28. RDMO ProTechnics.
29. Bullhead scale inhibitor into perms per Chemical rep recommendation. Flush scale inhibitor per Chemical rep recommendation. SI to soak overnight.
30. Release PKR. POOH & LD PKR.
31. PU and RIH with production tubing as per ALCR recommendation.
32. ND BOP, set TAC per ALCR recommendation and NU WH.
33. RIH with rods, weight bars and pump per ALCR recommendation. RDMO pulling unit
34. Turn well over to production (see contacts on first page of procedure).

# West Dollarhide Drinkard Unit #153

Location: 1150' FSL & 800' FWL, Sec 33, Township 24S, Range 38E Lea, NM

FIELD: Dollarhide

API: 30-025-33401

DATE CHKD:

Feb. 04, 2013

LEASE/UNIT: West Dollarhide Drinkard

ChevNo: BK3006

BY:

J. Castagno

COUNTY: Lea

WELL:

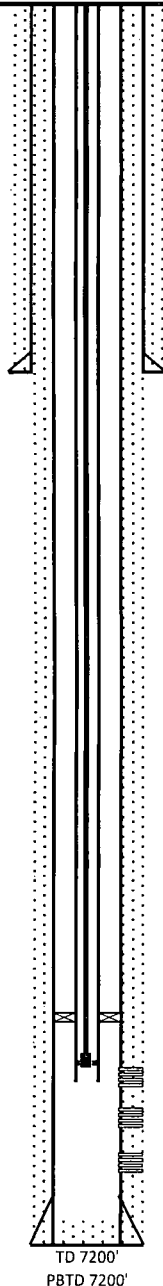
#153

STATE:

New Mexico

SPUD DATE: 6/16/1996  
COMP. DATE: 7/24/1996  
CURRENT STATUS: Producing Well (Rod Pump)

KB = 12'  
Elevation = 3177' GL  
TD = 7200'  
ETD = 7200'



8-5/8" 24#, set @ 1170' w/ 525 sx. cmt., Circ.

Tubing in Hole:	6/5/2009	Type
Footage	Joints	
6122.40	194	2-7/8" 6.5# J-55 8RD EUE Tubing
2.70	1	2-7/8" x 5-1/2" Tubing Anchor @ 6134'
941.2	30	2-7/8" J-55 8RD EUE Tubing
29.70	1	2-7/8" J-55 8RD IPC Blast Joint
0.80	1	2-7/8" 8RD EUE Seat Nipple @ 7108'
0.80	1	2-7/8" X-Over
12.00	1	2-3/8" Dip Tube
7109.60		Total Tubing String
12.00		BKDB
7121.60		Final HD

Rod Detail:	6/6/2009
Pump:	25-150-HHBM-24-6 pump @ 7,084'
Rods:	2 1" Pony Rods (10')
	85 1" WCN-78 (2125')
	91 7/8" WCN-75 (2275')
	96 3/4" WCN-75 (2400')
	9 1-3/4" Sinker Bars (225')

01/97 Tubb: 6169-73', 6202-30', 58-94', 6308-10', 19-34' w/ 2 JSPF (170- .47" holes)  
01/97: DRKD: 6370-74' w/ 2 JSPF (8 - .47" holes)  
DRKD: 6486-6613' w/ 2 JSPF (90 holes)  
08/02: DRKD: 6486-6500', 04-08', 13-22', 32-62', 66-76', 80-86', 6600-02', 10-13', w/ 2 JSPF (172 holes)  
Abo: 6684-7094' w/ 2 JSPF  
10/03: ABO: 6674-92', 96-6704', 07-47', 50-52', 54-57', 64-6828', 31-36', 41-44', 47-52', 54-70', 74-77', 79-88',  
6900-02', 04-07', 10-82', 88-96', 7006-30', 33-64', 68-72', 74-76', 78-82', 85-87', 91-95', 99-7102' w/ 2 JSPF

5-1/2" 15.5 & 17# L-80, CF-50 & WC-50 csg, set @ 7200' w/ 1635 sx cmt, circ 153 sx

TD 7200'  
PBSD 7200'

## Initial Completion

Perf & Acdz Abo & Tubb/Drinkard 6486-7094' in 2 stages w/ 21k gal 15% HCl.

PT: 80 bo, 183 bw, 25 mcf

## Subsequent Work

01/1997: Tag fill @ 7120'. Run bit & scraper to 7120'. Perf'd Tubb zone 6169-6334'. Perf DRKD zone 6370-6374'. Foam acdz through CT w/ 6000 gal 15% HCL & N2 foam for diverter bt stages. RTP.

PT: 41 bo, 159 bw, 88 mcf

07/2002 Re-perf & Frac: Run bit @ scraper to 6720'. Set CIBP @ 6670'. Perf DRKD 6484-6613'; acdz w/ 3000 gal 15%. Frac w/ 14,000 gal YF 140 & 27,000# 20/40 Carbo-lite. RTP.

10/2003 Re-perf Abo: CO fill f/ 6627-6688' (tag CIBP). DO CIBP, push DH to 7094'. DU CIBP, scale & frac balls f/ 7094-7132'. Tag hard fill plugged bit. Perf Abo 6847-7102' (planned to perf 7106-7125' as well, but tagged high and decided not to). Acadz Abo w/ 9,000 gal 15% & 2500# GRS. RTP

05/2009: Last tbg & rod pull. Fixed crimped 8-5/8" csg- cut & welded new WH. Bail out iron sulfide f/ 7074-7200'. RTP.

Apr. 12, 2013