Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
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1000 Rio Brazos Rd , Aztec, NM
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State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-103
Revised August 1, 2011

| | |
|---|---|
| WELL API NO. 30-025-12353 | |
| 5. Indicate Type of Lease STATE ☒ FEE ☐ | |
| 6. State Oil & Gas Lease No. 891015700 | |
| 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 West Dollarhide Drinkard Unit |
| 1. Type of Well: Oil Well ☒ Gas Well ☐ Other | 8. Well Number 74 |
| 2. Name of Operator Chevron U.S.A. Inc. | 9. OGRID Number ~~022351~~ 4323 |
| 3. Address of Operator 15 Smith Rd. Midland, TX 79705 | 10. Pool name or Wildcat Dollarhide Tubb Drinkard |
| 4. Well Location Unit Letter C : 667 feet from the North line and 631 feet from the East line; Section 4 Township 25S Range 38E NMPM County Lea | |
| | 11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 3158' GR |

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: Cleanout + acidize ☐ | | 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 cleanout, acidize and sand frac stimulate the Tubb/Drinkard.

Please Find Attached, the intended procedure, well bore diagram, and 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 Scott Haynes TITLE Permit Specialist DATE 08/28/2012

Type or print name Scott Haynes E-mail address: toxo@chevron.com PHONE: 432-687-7098

**For State Use Only**

APPROVED BY: TITLE DATE 8-30-2012

Conditions of Approval (if any):

# Workover Procedure
# West Dollarhide Drinkard Unit
# Dollarhide Field

**WBS # UWDOL – R2312**
**WDDU 74**

**API No: 30-025-12353** **08/03/12**
**CHEVNO: FB3290**

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

**Current Hole Condition**:

Total Depth: 6890' PBTD: 6632' (RBP) GL: 3158' KB: +13'

Casing Record:

10-3/4" 32# H-40 8RD SS csg, set @ 304' w/ 150 sx cmt, circ'd
7" 23# J-55 & N-80 8RD SS csg set @ 6252' w/ 1350 sx cmt in 2 stgs; TOCs@ 2825' & 290' (?) by 2 TS's [DV Tool @ 1227']
NOTE: Perf'd liner @ 5205' & pumped 100 sx cmt when setting liner
5" 13# 8RD LT&C J-55 & K-55 Liner set @ 6890' w/ 225 sx cmt; circ'd. TOL @ 5174'

Existing Perforations:

Tubb: 6210-6266'
Drinkard: 6446-6627'
**Set RBP @ 6632' on 01/97**
Upr Abo: 6660-6770'

**REGULATORY REQUIREMENTS**: N/A

**CONTACT INFORMATION:**

| | | |
|---|---|---|
| Jamie Castagno | Production Engineer | Cell: 432-530-5194 |
| Femi Esan | Geologist | Ph: 432-687-7731 |
| Hector Cantu | Completions Engineer | Cell: 432-557-1464 |
| Phillip R Minchew | Production Foreman | Cell: 432-208-3677 |
| Aaron Dobbs | Production Specialist | Cell: 505-631-9071 |

Prepared by: Jamie Castagno (08/03/12) Reviewed by: Hector Cantu (8/16/12)

**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. TOOH/LD rods & pump. Plan to replace pump and bad rods.

➢ **Caliper elevators and tubular EACH DAY prior to handling tubing/tools and anytime size changes.**

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, NU Annular BOP for tapered string. LD 1 joint, PU/RIH with 5-1/2" 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. POOH 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).
5. PU/RIH with 4-1/4" MT bit, 3" DC's on 2-3/8" L80 4.6# tubing (enough to cover the 5" interval), 2-3/8" 8RD x 2-7/8" 8RD XO and 2-7/8" good production tubing. Tag and record fill depth. PU power swivel, C/O to top of RBP (6632') 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.**

   **Note: If it's required to spot scale converter for HCL Acid solubility discuss with Remedial Engineer to perform additional run prior to Acid job.**

6. POOH LD bit and BHA.
7. MIRU wireline. RU lubricator for pressure control. RIH with 5" CIBP and set above the RBP @ ~ 6630'. **Dump bail 35' (29 gallons) of cement on top of CIBP per regulatory requirements leaving TOC ~ 6595'**. POOH wireline, RDMO wireline unit.
8. PU/RIH with 5" treating packer on 2-3/8" L80 4.6# tubing (enough to cover the 5" interval), 2-3/8" 8RD x 2-7/8" 8RD XO and good 2-7/8" production tubing hydrotesting in the hole. Spot scale converter mixed with equal amounts water across all perfs per Chemical rep recommendation. Set PKR @ ~ 6200'. Load backside and pressure test to 500 psi.
9. Swab or flow back to recover 100% of treatment and load volumes, if possible. Kill tubing if necessary.
10. MIRU acid contractor. RU choke manifold to flowback tank. Test lines and equipment to 6000 psi. Pressure up backside to 500 psi. Monitor casing pressure throughout acid job. Bleed off if casing pressure exceeds 500 psi. **Set pop-off valve to less than 5500 psi. Maximum surface pumping pressure of 5500 psi.**
11. Acidize perforations from 6210'-6593' with 8,000 gal 15% NEFe HCl dropping GRS between stages to divert at 1-2 PPG.
12. Flush tubing to bottom perforations. SI well for 2 hours allowing acid to spend. Record ISIP, 5, 10, & 15 minute SIP's.
13. Swab or flow back to recover 100% of treatment and load volumes, if possible. Kill tubing if necessary. Report acid volumes and pressures on morning wellview report.

14. Release treating packer, POOH and LD packer. PU/RIH with notched collar and C/O any rock salt to PBTD (6595'). Circulate well with fresh water to dissolve remaining GRS. POOH/LD tubing.
15. Close blind rams. Change 2-7/8" pipe rams to 3-1/2" pipe rams. Test BOP pipe rams to 250 psi/ 1000 psi. ND Annular BOP.
16. PU/RIH with 10K 5" AS-1X treating packer, on-off tool, hardened profile nipple, (2) 2-7/8" L80 6.5# blast joints, 2-7/8" 8RD x 3-1/2" 8RD XO and the rest of 3-1/2" 9.3# L-80 workstring. Hydrotest tubing to 8000 psi while RIH. **Set packer at ~ 5230' isolating the previous perforation and leaving the 3-1/2" tubing inside the 7" casing**. Pressure test annulus to 500 psi. Nipple up 10K tubing saver frac valve to BOP. Test frac valve to 8500 psi.
17. RDMO pulling unit.
18. Prior to job, verify compatibility of all frac fluids to reservoir fluids at temperature of 135° F and perform sand sieve analysis for sand distribution. Send results to Production and Remedial Engineers.
19. RU flowback crew if location permits. MIRU frac equipment. Install pop-off valves downstream of SLB 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 7" x 3-1/2" annulus and set to 500 psi. Pressure up to 300 psi and monitor during frac job.**

    **Note: Frac proposal is to include scale inhibitor ahead of the pads.**
20. Establish pump rate into perforations with fresh water. Complete sand fracture treatment as per attached SLB procedure.

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

21. RDMO SLB. SION to allow sand to cure.
22. Flow back well through choke manifold until well dies.
23. MIRU pulling unit. Test 3-1/2" pipe rams to 500 psi against packer.
24. ND frac valve. Release packer. POOH and lay down 5" packer, 3-1/2" and 2-7/8" WS.
25. Close Blind rams. Change 3-1/2" to 2-7/8" pipe rams. Open blind rams. PU/RIH and set packer @ ~ 25' to test 2-7/8" pipe rams to 250 psi / 1000 psi. Release and LD packer.

- **Caliper elevators and tubular EACH DAY prior to handling tubing/tools and anytime size changes.**

26. PU/ RIH with 4-1/4" MT bit, 3" DC's on 2-3/8" L80 4.6# tubing (enough to cover the 5" interval), 2-3/8" 8RD x 2-7/8" 8RD XO and good 2-7/8" production tubing. Tag top of sand and drill out any sand that has set up in wellbore to PBTD. Circulate well clean. POOH and LD bit and BHA.
27. PU and RIH with production tubing as per ALCR recommendation.
28. ND BOP, set TAC per ALCR recommendation and NU WH.
29. RIH with rods, weight bars and pump per ALCR recommendation. RDMO pulling unit
30. Turn well over to production (see contacts on first page of procedure).

# WELLBORE DIAGRAM WDDU 74

| | | | | |
|---|---|---|---|---|
| FIELD. West Dollarhide Drinkard Unit | | Well No 74 | | FORMATION DRKD, ABO |
| LOC· 667' FNL & 631' FEL | Sec. 4 | GR | 3158 26' | CURRENT STATUS. OIPR |
| TOWNSHIP: 25S | Cnty: Lea | KB | 13 24' | API NO. 30-025-12353 |
| RANGE 38E | State: NM | DF | | Chevno· FB3290 |

SPUD 03/21/1953

Date Completed: 05/17/1953
Initial Formation: Tubb/Drinkard
FROM: 6520' TO: 6890'

Initial Production
357 BO, 571 Mcf, 15 BW
1599 GOR, 37 Grav

**Initial completion:**
Completed OH Acidized w/ 14k gal 15% Acid

**Subsequent workovers:**

**08/28/1974 Repair csg leak** Mill out collapsed csg @ 5851' Sqzd hole @ 5451' w/ 200 sx Tagged fill @ 6852'

**03/05/1975** Tbg stuck @ 5883' Cut tbg Swedge through tight spot @ 5860-61' Could not recover fish

**07/08/1975 Run Liner** TOF @ 5860' Cut over fish f/ 5827-5882' RIH w overshot, recover 20' of fish Latch on fish @ 6000', could not move Latch on to fish again, recover 22 jts RIH and tag fill @ 6726' C/O to TD @ 6890' Ran 5" liner f/ 5174-6890' DO cmt f/ 5014-5129' (no cmt @ TOL). TOL did not hold pressure - perf hole @ 5205' & pump 100 sx cmt Tested ok Perf Drkd 6465-6627' & Abo 6660-6770' Acidize w/ 10k gal 15%

**02/19/1982 Acid Job** C/O crystal gypsum fill 6462-6557', circ clean Acidize w/ 2k gal 15% & 3 drums scale inhibitor

**11/26/1985** Tbg stuck, came free after 6 hours D/O scale & iron sulfide 6433-6646' **Con't D/O to 6746', saw pieces of iron & threads in returns.** D/O iron & scale to PBTD @ 6840' Acidize w/ 2 5k gal 15% & 500# GRS

**03/07/1988** Acidize w/ 5k gal 15% & 750# GRS

**01/03/1997** Tag fill @ 6822' Perf Tubb zone 6210-6266'. Re-perf Upr Drinkard 6446-6464' Ream out tight spot 6636-6637'. Acidize w/ 6 3k gal acid **Set RBP @6632' (above Upr Abo).**

**06/19/2010** Pull rods & tbg Replace pump

**Rod Detail 6/22/2010**

| Footage | Joints | Type |
|---|---|---|
| 26 00 | 1 | 1 5" Polished Rod |
| 16 00 | 3 | 1 5" Rod Subs (2', 6', & 8') |
| 2350 00 | 94 | 1" Grade 78 Rods |
| 2100 00 | 84 | 7/8" Grade 78 Rods |
| 1850 00 | 74 | 3/4" Grade 75 Rods |
| 225 00 | 9 | 1 5" Sinker Bars |
| 25 00 | 1 | 1 5" Rod Pump @ 6567' |

10-3/4" 32# H-40 8RD SS csg, set @ 304' w/ 150 sx cmt, circ'd

DV Tool @ 1227'

**Tubing in Hole: 6/21/2012**

| Footage | Joints | Type |
|---|---|---|
| 5010 17 | 158 | 2-7/8" 6.5# J-55 Tbg |
| 2 32 | 1 | 7" X 2-7/8" TAC @ 6490' (@ 5,020') |
| 1522 04 | 48 | 2-7/8" 6 5# J-55 Tbg |
| 30 00 | 1 | 2-7/8" 6 5# L-80 Tbg |
| 0 85 | 1 | 2-7/8" SN |
| 34 28 | 1 | 2-7/8" 6 5# J-55 Tbg |
| 6599 7 | | Total Tubing String |
| 13 00 | | KB |
| 6612 7 | | Final HD |

7" 23# J-55 & N-80 8RD SS csg set @ 6252' w/ 1350 sx cmt in 2 stgs, TOCs @ 2825' & 290' (?) by 2 TS's

5" 13# 8RD LT&C J-55 & K-55 csg set @ 6890' w/ 225 sx cmt, circ'd TOL @ 5174'

Perf'd 5" liner @ 5205', pumped 100 sx cmt (03/75)

**Tubb** (01/97) 6210-66' w/ 2 JSPF (112 holes)
**Re-Perf Drinkard** (01/97) 6446-64' w/ 2 JSPF (36 holes)
**Drinkard**· 6465-69', 73-77', 84-87', 90-94', 6502-06', 09-12', 17-25', 34-38', 54-59', 66-73', 77-80', 84-87', 90-93', ~~6600-03', 13-19', 24-27~~' w/ 2 JSPF (134 holes)
**Proposed CIBP @ 6630' w/ 35' cmt on top (NEW PBTD = 6595')**
RBP @ 6632' (01/97)
Tight spot @ 6636-37'
**Upr Abo**· 6660-64', 67-73', 78-82', 92-94', 97-6702', 05-08', 14-17', 22-25', 28-32', 38-42', 48-50', 53-56', 60-63', 67-70' w/ 2 JSPF (98 holes)

PBTD 6846'
TD 6890'