

Office

Revised August 1, 2011

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87505

Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

HOBBS OCD  
MAR 11 2013  
RECEIVED

WELL API NO. 30-025-12353	✓
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name West Dollarhide Drinkard Unit	✓
8. Well Number 74	✓
9. OGRID Number 4323	
10. Pool name or Wildcat Dollarhide Tubb Drinkard	

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 79707

4. Well Location

Unit Letter C : 667 feet from the North line and 631 feet from the East line  
Section 4 Township 25-S Range 38-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:

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: RUN LINER, ACIDIZE & SAND FRAC ☐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 RUN LINER, ACIDIZE &amp; SAND FRAC STIMULATE THE SUBJECT WELL.

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

TITLE

Permit Specialist

DATE 03/08/2013

Type or print name Scott Haynes

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

PHONE: 432-687+7198

**For State Use Only**

APPROVED BY:

TITLE

DATE

3-10-2013

Conditions of Approval (if any):

MAR 13 2013

Chm

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

**WBS # UWDOL – R2312**  
**WDDU 74**

**API No: 30-025-12353**  
**CHEVNO: FB3290**

**2/11/12**

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

**Current Hole Condition:**

**Total Depth:** 6890'                      **PBTD:** 6597' (RBP with 35' cmt on top)                      **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'  
Upr Abo: 6660-6770'

**Other in the hole:**

**RBP @ 6632' w/ 35' cmt on top**  
**RBP @ 6166' with 75' (3 sks) sand on top**  
**RBP @ 503'**

**REGULATORY REQUIREMENTS:** N/A

**NOTES:** Found leak on 7" casing (324' – 326'). Attempted to squeeze leak three times unsuccessfully.

**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

**This procedure is meant to be followed. In the extent that this procedure does not reflect actual operations, please contact Engineering and Superintendent.**

**PREWORK:**

1. Ensure road and location are in appropriate condition, anchors have been tested within the last 24 months, power line distance has been verified if variance is needed. Complete rig move checklist. Check condition and pressure ratings of wellhead and valves. Repair and replace as necessary.
2. When NU anything over and open (EPA, etc) ensure the hole is covered to avoid anything downhole.
3. Review H2S calculation in H2S tab included.
4. Any equipment installed at the wellbore, including wellhead (Inside Diameter), is to be visually inspected by the WSM to insure no foreign debris or restrictions are present.

**PROCEDURE:**

1. MIRU. Record SICP (well is currently TA'd with top RBP @ 503'). Bleed well down or kill as necessary. Notify Engineering if well has pressure influx.
  - **Monitor annulus (7" x 10-3/4") during the operations.**
  - **Wellview report does not show sand was dumped on top of RBP.**
2. Dump 300 lbs of sand (~ 11') on top of RBP. Monitor well. ND old 3M tubing head. NU new 11" 3M x 11" 3M compatible slip type adapter short spool for 5-1/2" casing and 7-1/16" 3M tubing head. **Have Vetco Gray on location prior and during the wellhead operations to verify specifications.**
  - **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.**
3. NU 7-1/16" Hydraulic dual BOP with 2-7/8" **pipe rams on top and blind rams on bottom.** PU/RIH with 7" packer and set it @ ~ 25'. Test BOP pipe rams and wellhead seal to 250 psi/ 500 psi. Note testing pressures on wellview report. Release, POOH/LD packer.
4. PU/RIH with retrieving tool on 2-7/8" L80 6.5# workstring to 503'. Wash sand off top RBP. Latch on RPB @ 503'. Release, POOH/LD top RBP.
5. PU/RIH with 5" compression packer and set @ 5230' (must be below previously perf'd and squeezed liner holes at 5205'), isolating the previous squeezed perforations. Pressure test 5" casing interval (6166' to 5230') to 3900 psi (80% of Burst) for 30 minutes. Bleed off pressure. Release packer, POOH and LD packer.
6. PU/RIH with retrieving tool on 2-7/8" L80 6.5# workstring to 6166'. Wash sand off top RBP. Latch on RPB @ 6166'. Release, POOH/LD bottom RBP.

7. PU/RIH with 5" CBP and set inside the 5" liner @ ~ 5200'. POOH.

➤ 5" Liner top details:

- MWL 7" x 5" liner hanger
- MWL PBR (5174' – 5177')
- MWL Packer (5179' – 5186')

8. SI blind rams. Swap 2-7/8" pipe rams to 5-1/2" pipe rams. Prepare location to run liner. Tally, drift and clean 5-1/2" 15.5# J55 LTC casing on location. Inspect float equipment.

➤ **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.**

9. Open blind rams. PU and RIH 5-1/2" casing as follows:

- Aluminum 5-1/2" LTC x 6.05OD casing alignment tool.
- 2 joints of 5-1/2" 15.5# J55 LTC 8RD.
- 5-1/2" Float Collar (ordered bucked onto 5-1/2" csg jt).
- Rest of 5-1/2" 15.5# J55 LTC 8RD casing. Will need 5-1/2" pup joints.

ID - Surface	
Component	Quantity
Size	5-1/2"
Weight	15.5#
Grade	J55
Connection	LTC
ID	4.950"
Drift	4.825"
Connection OD	6.050"
Collapse	4040 psi
Burst	4810 psi
Body Yield	248 klbs
Joint Strength	217 klbs
String Weight (air)	+/- 80 klbs
String Weight (Buoyed)	+/- 70 klbs
L4 Distance	3.5"
Guiding Makeup Torque	Minimum: 1630 ft-lbs Optimum: 2170 ft-lbs Maximum: 2710 ft-lbs

10. Make up casing to optimum torque (see table above). Monitor casing tong gauges. Load casing and pump 1.5x casing capacity through float equipment after running 10 joints to ensure float equipment is working and not obstructed. Fill each 1,000' of liner while running in the hole.

11. Run casing to ~5170', 3-4' above the PBR. Pump through the Tie-Back ports to identify continuous injection pressure. Rotate casing into the liner top allowing the Tie-Back alignment tool end to land inside the liner top spacing out with pup joints at surface. Pump through the Tie-Back to identify pressure changes between the landed and hanging liner. Notify Engineering of findings.
  - a. Casing should be landed 25,000 lbs less than string weight. Chain the casing down to the wellhead. In a previous job, friction pressure pumped the liner out ~3'. If pump out occurs slow down the rate.
12. Circulate 1.5x bottoms up w/ fresh water and prepare for cementing.
13. MIRU cement company. Pressure test lines to 4,000 psi. **Request lab test information to cement company prior to pump the job.**
14. Pump cement job per Design attached.

**Note: If cement did not circulate to surface, notify Workover Engineer.**
15. Wash up lines top of plug. Drop wiper plug in 5-1/2" casing string. Record lift pressure on wellview report.
16. Witness displacement and use displacement tubs to track displacement – request that cementer does NOT fill tubs high and suck low. Do not over-displace more than ½ of the shoe track volume. Bump plug to 500 psi over final circulating pressure. Release pressure and check floats. If the floats do not hold, hold bump pressure over night.
17. Document number of sacks of cement circulated to surface on wellview report. Collect both a WET and DRY sample of cement.
18. Wash BOP stack and flow line. RDMO cement company. ND BOP. Land slips and packoff. Rough cut 5-1/2" casing and LD cut joint.
19. NU tubing head. Test wellhead void. NU BOP. Swap 5-1/2" pipe rams to 2-7/8" pipe rams. Test BOP blind rams against wiper plug to 250/1000 psi.
20. PU with 4-1/4" junk mill, 3" DC's on 2-7/8" L80 6.5# WS and RIH to top of wiper plug inside 5-1/2" casing. SI pipe rams and test to 250/1000 psi.
21. RU power swivel and drill out cement, wiper plug, shoe track, aluminum cement guide. Inspect returns to verify aluminum debris from cement guide. Continue inside 5" to mill out CBP @ 5200'. Push down CBP to bottom @ ~6597'. Circulate well clean. POOH and LD 4-1/4" mill.
22. PU/RIH sub, 4-3/4" string mill to dress off float collar and down to the previous liner top. POOH and LD mill and BHA.
23. PU/RIH with 5" treating packer on 2-7/8" L80 6.5# WS hydrotesting in the hole to 6000 psi. Set packer @ ~ 6160'.
24. Pump scale converter mixed with equal amounts per Chemical rep recommendation if needed. Load backside and pressure test to 500 psi. **Monitor all annuli (7" x 10-3/4" and 7" x 5-1/2") during the operations.**
  - a. Swab back load of scale converter if pumped
25. 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 5500 psi. Maximum surface pumping pressure of 5000 psi.**

26. Acidize perforations from 6210'-6593' with 8,000 gal 15% NEFE HCl dropping GRS between stages to divert at 1-2 PPG.
27. Flush acid to bottom perforations. SI well for 2 hours allowing acid to spend.
28. 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.
29. Release treating packer, POOH and LD packer. PU/RIH with notched collar and C/O any rock salt to PBTD (6597'). Circulate well clean to remove remaining GRS. POOH/LD WS.
30. Close blind rams. Change 2-7/8" pipe rams to 3-1/2" pipe rams. PU/RIH with 5-1/2" packer and set @ ~25'. Test BOP pipe rams to 250 psi/ 1000 psi. Release and LD packer.
31. PU/RIH with 10K 5" AS-1X treating packer, on-off tool, hardened profile nipple, (2) 2-7/8" L80 blast joints, 2-7/8" 8RD x 3-1/2" 8RD heavy-duty XO and the rest of 3-1/2" 9.3# L-80 workstring. Hydrotest all tubing to 8000 psi while RIH. **Set packer at ~ 5230' isolating the previous perforation and leaving the 3-1/2" tubing inside the 5-1/2" casing.** Pressure test annulus to 500 psi. Nipple up 10K tubing saver frac valve to BOP. Test frac valve to 8500 psi.
32. RDMO pulling unit.
33. Prior to job, verify compatibility of all frac fluids with fresh water base fluid.
34. RU flowback crew if location permits. MIRU frac equipment. Install pop-off valves downstream of 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 8000 psi. Install pop-off on 5-1/2" x 3-1/2" annulus and set to 500 psi. Pressure up to 300 psi and monitor during frac job.**
35. Establish pump rate into perforations with fresh water. Complete sand fracture treatment as per attached sand frac procedure. Maximum pressure of 8000 psi.

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

36. RDMO frac company. SION to allow resin coated sand to cure.
37. Flow back well through choke manifold until well dies.
38. MIRU pulling unit. Test 3-1/2" pipe rams to 500 psi against packer.
39. ND frac valve. Release packer. POOH and lay down 5" packer, 3-1/2" and 2-7/8" blast joints.
40. 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.**
41. PU/ RIH with 4-1/4" MT bit on 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 remove MT bit.
42. PU/RIH with 5" treating packer on good 2-7/8" production tubing hydrotesting in the hole. Set packer @ ~ 6160'. Pump scale inhibitor per Chemical rep recommendation. Load backside and pressure test to 500 psi. Flush scale inhibitor. SI to soak overnight.
43. Release PKR. POOH & LD PKR.
44. PU and RIH with production tubing as per ALCR recommendation. ND BOP set TAC per ALCR recommendation and NU WH.

45. RIH with rodstring with ALCR recommendation. Hang well on. RDMO pulling unit.
46. 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

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'

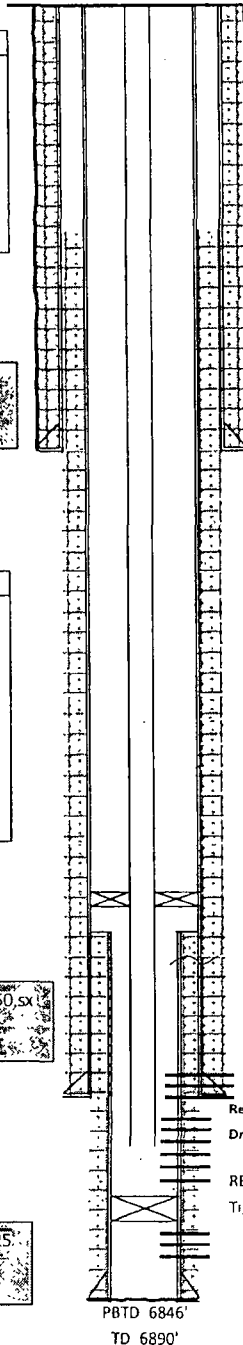
10-3/4" 32# H-40 8RD SS csg set @ 304' w/ 150 sx cmt, circ'd

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" 5N
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, TOGS @ 2825' & 2903' by TS

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



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

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)

RBP @ 6632' (01/97) w/ 35' cmt on top (NEW PBTD = 6597')

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'