Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE

HOBBSUCD 5. Lease Serial No. NM-10185

Do not use this f	OTICES AND REPO orm for proposals t	to drill or to re-e	enter an	6. If Indian, Allotte	e or Tribe Name	
abandoned well. Use Form 3160-3 (APD) for such proposals. SUBMIT IN TRIPLICATE – Other instructions on page 2.				7. If Unit of CA/Ag	7. If Unit of CA/Agreement, Name and/or No.	
l. Type of Well ☐ Gas Well ☐ Other				8. Well Name and N WEST DOLLARH	8. Well Name and No. WEST DOLLARHIDE DRINKARD UNIT #159	
2. Name of Operator CHEVRON U.S.A. INC.				9. API Well No. 30-025-33480	/	
3a. Address 15 SMITH ROAD MIDLAND, TEXAS 79705	3b. Phone No. (included) 432-687-7375	· · · · · · · · · · · · · · · · · · ·		10. Field and Pool or Exploratory Area DOLLARHIDE TUBB DRINKARD		
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) 990 FSL, & 660 FEL, SECTION 30, T-24S, R-38E, UL: P				1	11. Country or Parish, State LEA COUNTY, NEW MEXICO	
12. CHEC	K THE APPROPRIATE BO	OX(ES) TO INDICATI	E NATURE OF N	OTICE, REPORT OR OT	THER DATA	
TYPE OF SUBMISSION TYPE OF ACT				ACTION		
Notice of Intent Subsequent Report	Acidize Alter Casing Casing Repair	Deepen Fracture Tre New Constr		Production (Start/Resume) Reclamation Recomplete	Well Integrity ✓ Other RETURN TO	
Final Abandonment Notice	Change Plans Convert to Injection	Plug and Ab	andon 🔲	Temporarily Abandon Water Disposal	PRODUCTION	
testing has been completed. Final determined that the site is ready for CHEVRON U.S.A. INC. PROPOSE PLEASE FIND ATTACHED, THE IN ALSO ATTACHED, IS THE C-144 II	r final inspection.) D THAT THE SUBJECT V ITENDED PROCEDURE,	VELL BE REACTIVA	TED, SAND FR	AC STIMULATED, AND		
AfterMAY 1 200 or plans to P & A	the well must the must be submitted.	oe online ied.				
14. I hereby certify that the foregoing is to DENISE PINKERTON	rue and correct. Name (Prime		REGULATOR	Y SPECIALIST		
Signature Date 03/08/2011					APPROVED	
THIS SPACE FOR FEDERAL OR STATE OFFICE USE						
Approved by				APR 0 4 2011	MAR 3 0 2011 /s/ Chris Walls	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would

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Completion Procedure West Dollarhide Drinkard Unit Well. No. 159 Dollarhide Field

APR 0 4 2011 HOBBSUCD

WBS No.

API No: 30-025-33480 CHEVNO: BL8626

T24S R38E Sec 30 UL M

FEDERAL: YES

1/20/11

Job: Sand Frac Stimulate, Reactivate TA'd Producer

Current Hole Condition:

Total Depth: 7250'

PBTD: 7091'

GR: 3151'

KB: 3174'

Casing Record:

11-3/4" 42#/ft WC-40 @ 1170' w/ 700 sx, circ

5-1/2" 15.5&17#/ft WC-50, L-80 @ 7455' w/ 3735 sx, circ

Existing Perforations: TA'd w/ CIPB @ 6400' cap w/35' cmt (PBTD @ 6365') (3/00)

Drinkard: 6467 – 6582'; 2 JSPF-5" 82 hls (11/96)

CIBP @ 6675' (9/99)

Abo: 6693-7006'; 2 JSPF-5" 92 hls (11/96)

Prepared by: Ivone Wardell (1/20/2010) Reviewed by: Rob Tyre (//2010) TO THE COMMUNICATION OF THE COMPANY OF THE COMPANY

Procedure:

- 1. MI & RU pulling unit and reverse unit. Bleed down pressure from the well, if any, Pump down csg with kill weight mud, if necessary to kill well.
- 2. NU BOPE and test as required.
- 3. PU 4-3/4" bit on 2-7/8" workstring. Cleanout well and drill out CIBP and cement @ 6365'. Cleanout to approx 7091' and circulate well clean. TOOH w/ 4-3/4" bit and workstring. LD bit.
- 4. PU and RIH with 5-1/2" CIBP. Set CIBP @ 6820' (leave only Upper Abo open) and spot 10' cement on CIBP. Note new PBTD on report.
- 5. PU and RIH with 5-1/2" PPI packer and SCV on 2-7/8" workstring. Establish circulation. RU Petroplex. Spot acid across Drinkard and Upper Abo perforations from 6467 – 6582'

- and 6693 6806' w/ 8000 gal 15% NEFe HCl. Displace acid with brine water. Record ISIP, 5, 10 and 15 min SIPs.
- 6. Release and POOH with PPI packer. LD PPI packer. Prepare to sand frac.
- 7. PU and RIH w/ 5-1/2 treating packer complete w/ on-off tool, hardened profile nipple and blast joint on 3-1/2" 9.3# L-80 workstring. Pressure test tubing to 8500# while RIH. Set packer at 6347' (approx 120' above top perf). Pressure test annulus to 500# and monitor/maintain throughout the job. Nipple up remote hydraulically operated tubing saver frac valve.
- 8. MIRU Schlumberger. RU frac equipment

Add scale inhibitor to frac (contact Baker chemical rep & production foreman for treatment recommendation)

9. Install pop-off valves downstream of check valve w/ manually operated valve below pop-off. Test all service company pressure shutdowns on each pump truck and surface lines to maximum expected pumping pressure.

In conjunction with Sierra, Schlumberger to perform all frac fluid quality control (including breaker tests) on-site w/ actual mixing water and all chemicals to be used on job. XL gelled fluid is to be delayed by pipe-pump time in order to reduce friction pressure.

- 10. Prior to job, verify compatibility of all frac fluid and oil at reservoir temperature of 135° F and perform sand sieve analysis
- 11. Frac the Drinkard and Upper Abo zone as per Schlumberger recommendation. Max treating pressure is not to exceed 6192 psi (80% of the burst rating for 3-1/2" 9.3# L-80)

Pump enough linear gel fluid to only to slightly under displace sand slurry.

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

- 12. RDMO Schlumberger. MIRU PU
- 13. Release packer. POOH and lay down 5-1/2" packer and 3-1/2" WS. RIH w/ 4-3/4" bit on 2-7/8" L-80 workstring. Drill out any sand that has set up in wellbore to PBTD. Circulate well clean.
- 14. Scale squeeze the Upper Abo and Drinkard with scale inhibitor mixed with fresh water (contact Baker chemical rep & production foreman for treatment recommendation)

- 15. POOH and lay down workstring.
- 16. PU and RIH w/ 2-7/8" J-55 production tubing and BHA. NDBOP and set TAC. NUWH. PU and RIH w/ rods and pump as per ALCR design. RWTP. RDMO.
- 17. ND BOPE and NU WH. RIH with rods and pump as per ALSR recommendation. RDMO pulling unit. TWOTP.

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Project Justification:

WDDU 159 has been TA'd since 2000 due to low production rates. The TA status for this well expires in April 2011. To comply with BLM/NMOCD regulations, the well will have to be reactivated or P&A'd (a TA extension will not be granted)

It is recommended that this well be reactivated, sand frac stimulated and returned to production.

WDDU 159 is a 10 acre spacing well. It was originally drilled in 1997 and completed in the Drinkard and Abo formations. The Abo zone was acidized and the Drinkard zone was acid frac but the well had a low initial IP of 22 BOPD 27 MCFD and 81 BWPD.

Based on analysis of 10-ac wells performance, all 10-ac wells require a sand frac to properly stimulate the reservoir and result in an economic well. Out of fourteen 10-ac wells at WDDU, four were only acidized at initial completion; the average initial production for these wells is 41 BOPD; seven were sand frac stimulated and the average initial production for these was 112 BOPD. WDDU 159 was the only 10-ac well that was acid frac'd at initial completion and its initial production was 22 BOPD. Based on these results, an acid frac may not be an aggressive enough treatment to properly stimulate 10-ac producers. In addition, the Abo was plugged back in 1999 resulting in a drop of 9 BOPD.

The economics for this workover are based on an EV gross IP of 18 BOPD. The EV case was calculated assuming the following:

- Low Case IP (25% POS) = 13 BOPD
- Base Case IP (50% POS) = 20 BOPD
- High Case IP (25% POS) = 25 BOPD

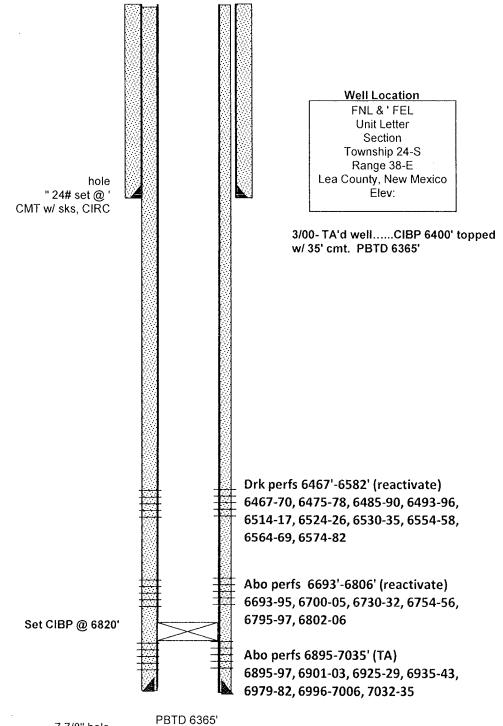
The post-frac performance for WDDU 159 is expected to be below average when compared to previously sand frac'd wells for the following reasons:

- WDDU 159 is located in the North of the field:
 - There is limited injection support in this part of the field
 - Relatively lower reservoir quality
 - Past performance of the well (even though it was acid frac'd, WDDU 159 still performed the poorest of all 10 ac wells)

WDDU 159 is located near WDDU 160 and 161 which were recently drilled.

Previous production tests: Previously TA'd.

WDDU #159 API No. 30-025-33480



7 7/8" hole 5-1/2" 15.5 &17# CSG - set @ 7250' CMT w/ sks PBTD 6365' TD = 7250'