

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMNM81616 ✓

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on page 2

8. Well Name and No.
H B 10 FEDERAL 5 ✓

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator **DEVON ENERGY PRODUCTION COMPANY** Contact: ERIN WORKMAN
Erin.workman@dvn.com

9. API Well No.
30-015-33836 ✓

3a. Address
333 WEST SHERIDAN AVE
OKC, OK 73102

3b. Phone No. (include area code)
Ph: 405-552-7970

10. Field and Pool or Exploratory Area
CEDAR CANYON; BONE SPRING
Delaware,

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
✓ Sec 10 T24S R29E Mer NMP NWNE 810FNL 1780FEL

11. County or Parish, State
EDDY COUNTY, NM **11540**

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Devon Energy Production Company, LP respectfully requests to plug back the Cedar Canyon; Bone Spring and recomplete to the Brushy Sandstone, Delaware per the attached procedures.

AC 10-20-17
Accepted for record - NMOCD

Attachment: Procedures
Current Wellbore
Proposed Wellbore

**SUBJECT TO LIKE
APPROVAL BY STATE** NMOIL CONSERVATION
ARTESIA DISTRICT

APPROVED

Thank you,

OCT 20 2017

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

WITNESS

RECEIVED

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #386264 verified by the BLM Well Information System
For DEVON ENERGY PRODUCTION COMPAN, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 09/27/2017 ()

Name (Printed/Typed) ERIN WORKMAN

Title REGULATORY COMPLIANCE PROF.

Signature (Electronic Submission)

Date 08/28/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By *Paul R. Swartz* 10/02/2017

Title TPET

Date

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 entitle the applicant to conduct operations thereon.

Office

**BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE**

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.

(Instructions on page 2)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Ref 10-27-17

DVN: H B 10 Federal #5

API #30-015-33836

Sec 10-T24S-R29E

Eddy County, NM

8/25/2017

Purpose: Recomplete Brushy Sandstone

T.D. – 8,100’ PBTB – 8,100’ ; CIBP to be SET @ ~6,800’ w/ 35’ cmt on top (PBTB 6,765’)

Wellbore fluid: Formation oil, natural gas and formation water.

Casing and Tubing Data:

Size	Wt. lb/ft	Grade	Interval	(.80 S. F.) Collapse	(.80 S. F.) Burst	Drift	Capacity (bbls/ft)
13-3/8"	48	H-40	0 - 419'	600	1,375	12.559"	
8-5/8"	32	J-55	0 - 3,043'	2,000	3,100	7.796"	
5-1/2"	17	J-55	0 - 8,100'	3,930	4,250	4.767"	0.0232
2-7/8"	6.5	L-80	0 - 7,984'	8,925	8,450	2.347"	0.00579

2-7/8" by 5-1/2" – 0.0152 bbls/ft.

5-1/2" – 0.1305 ft³/ft

Top of Cement: To be validated via Cement Bond Log during procedure

Current Perfs:

2nd Bone Spring Sandstone

7,927'-7,940' (13')

HB 10 Federal #5

Procedure:

1. Remove PR and Stuffing Box. Install Rod rams. Unseat pump and T.O.H. with rods and pump.
2. ND wellhead. NU 5,000 psi BOPE, w/1 set of blind rams on bottom plus 1 set of 2-7/8" tbg rams on top. Test BOPE to Devon specifications. Have 10,000 psi tubing valve(s) for frac.
3. Unset TAC @ ~7,794'. T.O.H.
4. TIH and set CIBP at 6,800'. Cap CIBP with 35' cement for a PBTB of 6,765'. Wait on cement.
5. MIT the 5-1/2" csg to 500 psi at surface for 30 min with a 1000 psi chart recorder and submit results to BLM.

6. Run casing integrity log and CBL. Submit results to BLM and verify top of cement above proposed perforated interval. Do not proceed until casing integrity and cement bond accepted by BLM.
7. RU frac crew, iron, and tubing isolation valves rated for > 5,000 psig service. TIH frac string and packer. Set packer at 4,000'. Test CIBP and cement plug to max treating pressure. Test annulus to 1,000 psig to verify packer integrity.
8. R.U. Wireline Service Company and full lubricator. Test lubricator to Devon specifications. RIH with slick guns. Perforate the Brushy Sandstone between approximately 6,500' and 5,200' MD.
9. RD Wireline. RU frac crew. Test iron and stimulate perforated interval in the Brushy Sandstone.
10. RD frac. Flow well back immediately.
11. Once well dies. Unset treating packer, drop down and reverse circ. out fluid to PBTD of 6,765'. TOOH frac string. RDMO frac stack and additional equipment.
12. T.I.H. with production tubing detail as before but place T.A.C. @ ~ 6,600' (below bottom perf).
13. N.D. BOPE and N.U. wellhead. Install rod rams.
14. T.I.H. with pump and rod design.
15. R.D.M.O. DDCU and release all rentals. Return well to production.

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: HB 10 FEDERAL #5		Field: CEDAR CANYON	
Location: 810' FNL & 1780' FEL; SEC 10-T245-R29E		County: EDDY	State: NM
Elevation: 3058' KB; 3045' GL; 13' KB to GL		Spud Date: 3/6/05	Compl Date: 4/2/05
API#: 30-015-33836	Prepared by: Joe Koessler	Date: 8/25/17	Rev:

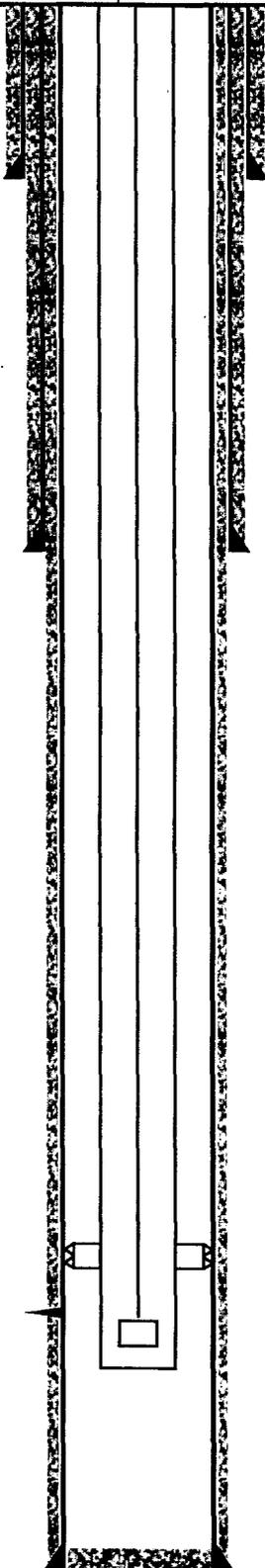
CURRENT WELLBORE

17-1/2" hole
13-3/8", 48#, H40, 8RD, STC, @ 355'

11" Hole
8-5/8", 32#, J55, 8RD, STC, @ 2,990'

Bone Spring (4/05)
 7,927'-7,940'

7-7/8" Hole
5-1/2", 17#, K55, 8RD, LTC, @ 8,290'



Formation Tops:
 Delaware: 3052'
 Brushy: 5175'
 Bone Spring: 6827'

241 Jts -2-7/8" Prod tubing (4/6/2005)

TAC @ 7,794'

5 Jts -2-7/8" Prod tubing (4/6/2005)
 SN @ 7,953'
 EOT @ 7,984'

8,290' TVD

DEVON ENERGY PRODUCTION COMPANY LP

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Elevation: 3058' KB; 3045' GL; 13' KB to GL		Spud Date: 3/6/05	Compl Date: 4/2/05
API#: 30-015-33836	Prepared by: Joe Koessler	Date: 8/25/17	Rev:

PROPOSED BRUSHY SANDSTON RECOMPLETION

17-1/2" hole
13-3/8", 48#, H40, 8RD, STC, @ 419'

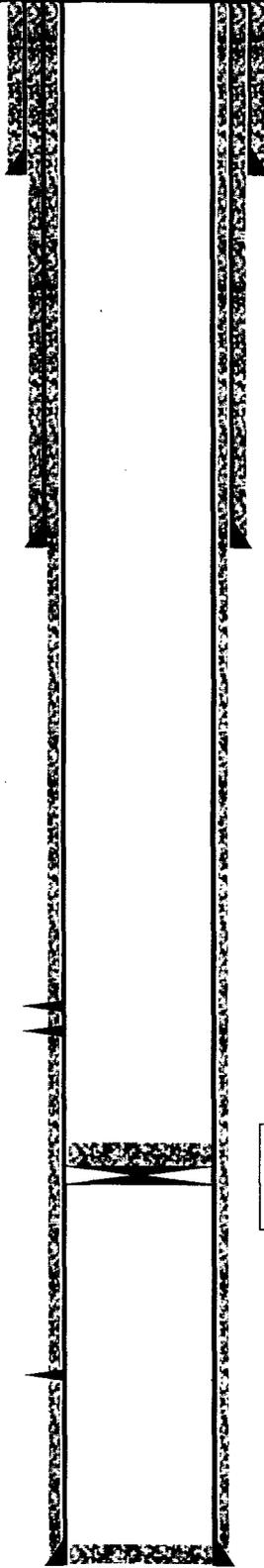
11" Hole
8-5/8", 32#, J55, 8RD, STC, @ 3,043'

Proposed:
BRUSHY SANDSTONE
 6,500'-5,200' (Exact interval and perforated density TBD)

Proposed:
 2. Cap CIBP w/35' cmt. 6,765' PBD.
 1. Set CIBP @ 6,800'

Bone Spring (4/05)
 7,927'-7,940'

7-7/8" Hole
5-1/2", 17#, J55, 8RD, LTC, @ 8,100'



8,100' TVD

Conditions of Approval

**Devon Energy Production company
HB - 05, API 3001533836
T24S-R29E, Sec 10, 810FNL & 1780FEL
October 2, 2017**

1. **Begin wellbore operations within 90 days of these dated conditions of approval for the processed Electronic Submission #386364 notice of intent.**
2. **Operator is required to have the BLM approved NOI procedure with applicable conditions of approval on location for this workover operation.**
3. Well is located within the designated Medium Cave Karst Area, which requires cement circulation on both the surface and intermediate casing.
4. Subject to like approval by the New Mexico Oil Conservation Division.
5. Before adding, replacing, or repairing casing or a liner, prior BLM approval of the design is required. Use notice of intent Form 3160-5.
6. A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.
7. Surface disturbance beyond the existing pad shall have prior BLM approval.
8. Functional H₂S monitoring equipment shall be on location.
9. Blow Out Prevention Equipment 3000 (3M) to be used. All BOPE and workover procedures shall establish fail safe well control. Ram(s) for the work string(s) used is required equipment. Manual BOP closure system including a blind ram and pipe ram(s) designed to close on all (hand wheels or automatic locking devices) equipment installed regardless of BOP design. Function test the installed BOPE to 500psig when well conditions allow. Related equipment, (choke manifolds, kill trucks, gas vent or flare lines, etc.) employed when needed for reasonable well control requirements.
10. All waste (i.e. trash, salts, chemicals, sewage, gray water, etc.) created during work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
11. Notify BLM 575-361-2822 Eddy Co. as work begins. Some procedures witnessed. If there is no response, leave a voice mail with the API#, workover purpose, and a call back phone number.
12. The BLM PET witness is to run tbg tally and agree to cement volumes and placement. Sample each plug for cement curing time and tag and/or pressure test as requested by BLM PET witness.

13. **After setting the CIBP within 100' of the top perf 7927', perform a charted casing integrity test of 500psig minimum. Document the pressure test on a one hour full rotation calibrated (within 6 months) recorder chart registering within 35 to 85 per cent of its full range. Verify all annular casing vents plumbed to the surface and open during this pressure test. Call BLM 575-361-2822 Eddy Co. and arrange for a BLM witness of that pressure test. Include a copy of the chart with the subsequent sundry for this workover.**
14. **Provide BLM with an electronic copy (Adobe Acrobat Document) of the Step 6. proposed cement bond log. Start the CBL at the regulatory (within 100' of the top perforation of 7927) CIBP depth. Take the CBL with 0psig casing pressure from the CIBP to TOC. Attach the CBL to a pswartz@blm.gov email.**
15. **This procedure is subject to the next three numbered paragraphs.**
16. Set cement plugs to cover a minimum of 100ft plus 10ft for every 1,000ft from the bottom of the plug, rounding the number of necessary sacks up to the nearest 5 sacks. Never use less than 25sx. Examples: A cement plug set at 8000 in 7" casing would require a min of 35sx. A 25sx plug in 5 1/2" casing should cover 250ft, which may exceed 100ft plus 10ft per 1000ft.
17. Class H > 7500ft & C < 7500ft cement plugs(s) will be necessary. For any plug that requires a tag or pressure test a minimum WOC time of 4 hours(C) & 8 hours(H) is recommended. Formation isolation plugs of Class "C" to be mixed 14.8#/gal, 1.32 ft³/sx, 6.3gal/sx water and "H" to be mixed 16.4#/gal, 1.06ft³/sx, 4.3gal/sx water.
18. Minimum requirement for mud placed between plugs is 25 sacks of salt water gel per 100 barrels in 9 lb/gal brine.
19. **Set a 25sx balanced Class "H" plug on the CIBP set within 100' of the top perf 7927'. WOC, and tag the plug with tbg at 7690' or above.**
20. **Set a 25sx balanced Class "C" plug across the Bone Spring formation top from 7230' or below. WOC, and tag the plug with tbg at 6990' or above.**
21. **Set a 25sx balanced Class "C" plug across the 5 1/2" DV Tool from about 6820. DV Tool depth approximated, the new CBL should show a better depth definition. Set the plug from about 60' below the Tool. WOC, and tag the plug with tbg 250' above the setting depth.**
22. The subsequent report is to include stimulation injection pressures. Report maximum/minimum injection rate (BPM) and max/min stimulation injection pressures.
23. Submit a (BLM Form 3160-5 subsequent report describing (dated daily) all wellbore activity and the Mechanical Integrity Test. File intermediate Form 3160-5 within 30 days of any interrupted workover procedures and a complete workover subsequent sundry.
24. A BLM Well Recompletion Form 3160-4 and a NMOCD Form C-102 "Well Location and Acreage Dedication Plat" with updated information is necessary with the subsequent package when recompletion changes a well's Pool designation.
25. File intermediate **subsequent sundry** Form 3160-5 within 30 days of any interrupted workover procedures and a complete workover subsequent sundry.

An inactive/shut-in well bore is a non-producing completion that is capable of “beneficial use” i.e. production in **paying quantities** or of service use.

26. Submit evidence to support your determination that the well is in active “beneficial use” for BLM approval on the Sundry Notice Form 3160-5 within 90 days of this sundry’s approval date.
27. Should “beneficial use” not be achieved submit for BLM approval a plan for plug and abandonment.

Operator: Devon Energy Production Company
Surface Lease: NM81616 **BHL: NM81616**
Case No: NM81616 **Lease Agreement**
Subsurface Concerns for Casing Designs: MdmCvKst
 Well Status: OSI
 Spud date: 3/6/2005
 Plug'd Date:
 Reentry Date:

Well: H B 10 FEDERAL-5
API: 3001533836
@ Srfce: T24S-R29E,10.810n1780e
@ M TD: T24S-R29E,10.810n1780e
Estate: FVFF
 KB: 3058
 GL: 3045
 Corr: 13
 CWDW, R of W:
 OCD Admn Order, date:
 Frmtn, Depths, psig:

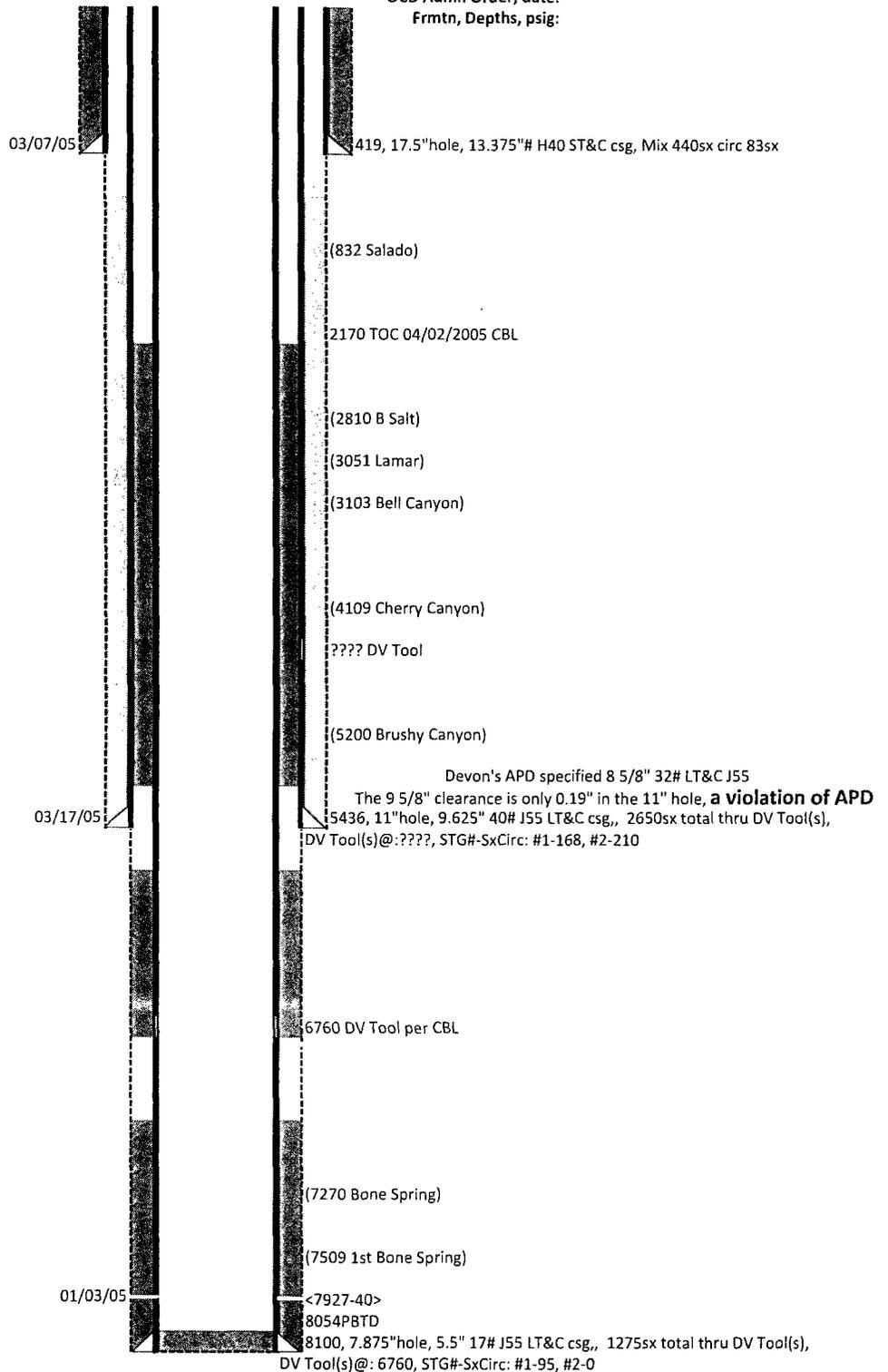


Diagram last updated: 10/02/2017