

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.
NMNM102917

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.
RDX 21 013

9. API Well No.
30-015-37781

10. Field and Pool or Exploratory Area
BONE SPRING

11. County or Parish, State
EDDY COUNTY, NM

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
RKI EXPLORATION & PRODUCTION
Contact: CAITLIN O'HAIR
E-Mail: caitlin.ohair@wpenergy.com

3a. Address
3500 ONE WILLIAMS CENTER MD 35
TULSA, OK 74172

3b. Phone No. (include area code)
Ph: 539-573-3527

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 21 T26S R30E NWNE 500FNL 2200FEL
32.033901 N Lat, 103.884849 W Lon

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 type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" 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 recomplate 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 recomplate 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.

RKI Exploration and Production, LLC is requesting approval to plug and abandon the RDX 21 #013.
Current WBD attached.
Proposed procedure and WBD attached.

NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 03 2017

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

RECEIVED

14. I hereby certify that the foregoing is true and correct.
**Electronic Submission #377933 verified by the BLM Well Information System
For RKI EXPLORATION & PRODUCTION, sent to the Carlsbad
Committed to AFMSS for processing by DEBORAH MCKINNEY on 06/06/2017 ()**

Name (Printed/Typed) CAITLIN O'HAIR	Title SUBMITTER
Signature (Electronic Submission)	Date 06/05/2017

Accepted for record
NM/OCD
RKB

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By [Signature] Title Eng Date 6/21/17

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 CFO

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.

Current Completion

KB: 3057.0'

GL: 3040.0'

Datum: 17.0' above GL

Spud: 12/15/10

Completed: 01/03/11

13 3/8" 54.5# (17.5" Hole) @ 1000'
Cmt'd w-940 sxs. to surface

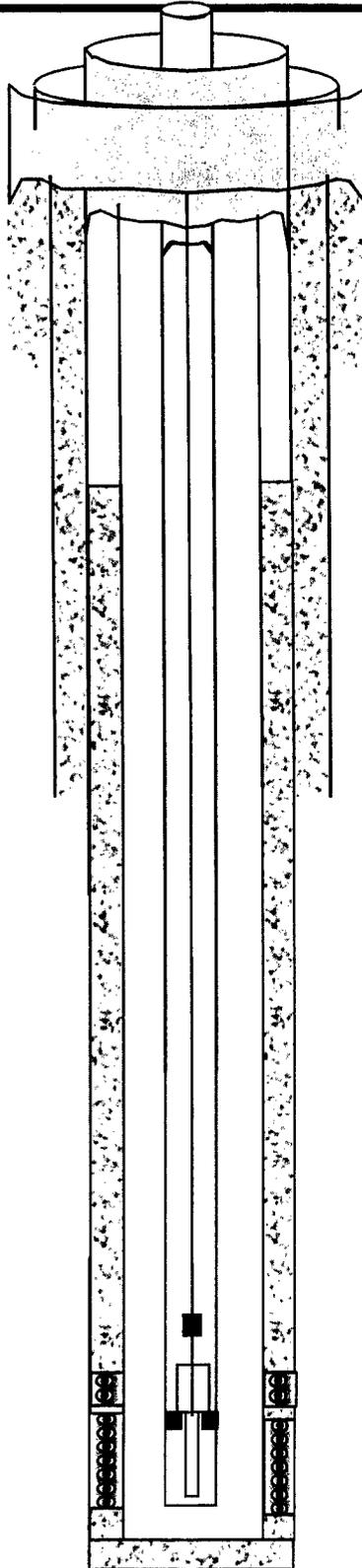
9 5/8" 40# (12.25" hole) @ 3455'
Cmt'd w-1160 sxs. to surface

DV Tool @ 4996'

5 1/2" 17# (8.75" hole) @ 7250'
Cmt'd w-1170 sxs. - TOC @ 1800'

PBTD @ 7204'

RDX Fed #21-13
Current WB



TD @ 7,250'

Les Peeler 06-02-17

API No: 30-015-37781

Sct. 21- 26S, 30E

Eddy Co., NM

Bone Spring - Wolfbone Delaware Field

Lease # 102917

2 7/8" @ 6320'

2.5"x20' pump, 9-sinker bars, 133-3/4", 110-7/8"

Bone Spring 5607'-5776'

5886' -7053'

Proposed Plugged WBD

KB: 3057.0'

GL: 3040.0'

Datum: 17.0' above GL

Spud: 12/15/10
Completed: 01/03/11

Perf @ 200' & Sqz. 80 sxs. to surface

13 3/8" 54.5# (17.5" Hole) @ 1000'
Cmt'd w-940 sxs. to surface
Perf @ 1050' & Sqz. 80 sxs. WOC -Tag @ 850'

9 5/8" 40# (12.25" hole) @ 3455'
Cmt'd w-1160 sxs. to surface
Spot 30 sxs. 3505' -3305'

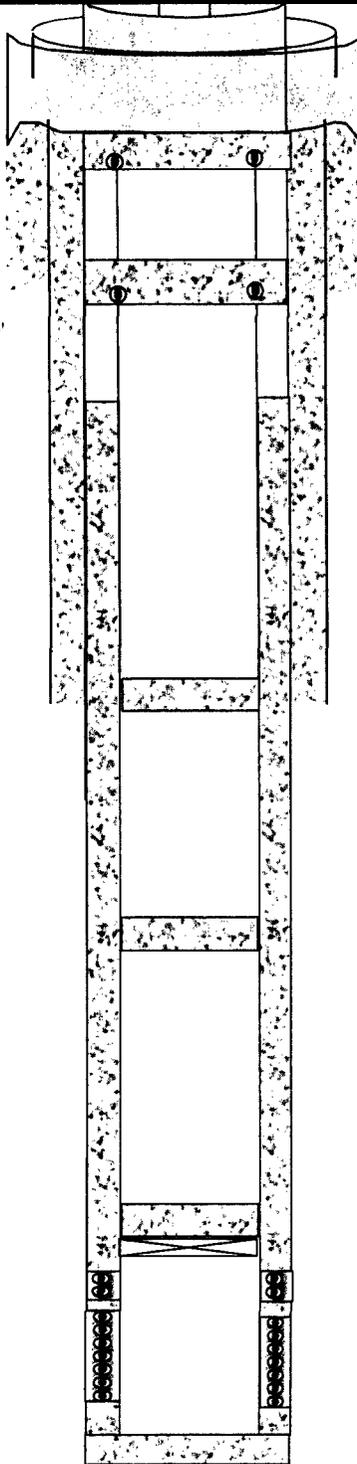
5 1/2" 17# (8.75" hole) @ 7250'
Cmt'd w-1170 sxs. - TOC @ 1800'

Spot 30 sxs. 5050' -4850'
DV Tool @ 4996'

Set CIBP @ 5525' & spot 25 sxs. on top

PBTD @ 7204'

**RDX Fed #21-13
Proposed WB**



Les Peeler 06-02-17
API No: 30-015-37781

Sct. 21- 26S, 30E
Eddy Co., NM

Bone Spring - Wolfbone Delaware Field
Lease # 102917

T. RSP 903
T Salt 1195
T Lamar 3450

Bone Spring 5607'-5776'
5886' -7053'

TD @ 7,250'



RDX Fed #21-13
Plug and Abandon Procedure
Bone Spring-Wolfbone Delaware Field

Section 21 T-26S, R-30E
Eddy Co., New Mexico

API # 30-015-37781
Property # 102917

Spud Date: 12/15/10
TD Date: 01/03/11

Producing Formations:
Bone Spring: 5,607' – 7,053'

KB Elev: 3057'
GL Elev: 3040'
TD: 7250'
PBTD: 7204'
Marker Joint: N/A

CASING SUMMARY:

Safety Factor = 80% of new applied to burst, collapse and tension parameters in table.

Size	Depth (ft)	Weight (#/ft)	Grade	Connection Type	Capacity (bbls/ft)	ID (in)	Drift (in)	Burst (psi)	Collapse (psi)	Tension (lbs)
13 3/8"	1,000'	54.5	J-55		0.1545	12.615	12.459	2,184	905	437,600
9 5/8"	3,455'	40	J-55		0.0758	8.835	8.679	3,160	2,050	416,000
5 1/2"	7,250'	17	N-80		0.0232	4.892	4.767	8,512	5,984	454,400

Surface: 13 3/8": 0'-1,000' – TOC @ surface
Production: 9 5/8" 0'-3,455' – TOC @ surface
Production 5 1/2" : 0'-7,250' - TOC @ 1,800' per CBL

COMPLETION HISTORY TO DATE:

OBJECTIVE: Plug and abandon.

WPX REQUIRES THAT HARD HATS, STEEL TOE BOOTS, FIRE RETARDANT CLOTHING, AND SAFETY GLASSES BE WORN ON LOCATION.

HOLD SAFETY MEETING PRIOR TO COMMENCING PERFORATING, WIRE LINE AND PUMPING OPERATIONS

NO IGNITION SOURCES WITHIN 100 FT OF THE WELLHEAD, FLOWBACK TANKS OR MANIFOLD.

PROCEDURE:

- 1) Test safety anchors and replace as necessary. Set 1 clean frac tank and fill with 480 BFW.
- 2) MIRU Service Unit. Deliver, unload and tally 5,600'- 2-3/8" 4.7# J-55 EUE work string.
- 3) ND WH, NU 3K# BOP.
- 4) POOH rods & tbg. & Lay Dn.
- 5) MI RU wireline unit. Run 5 1/2" GR/JB to 5,600'.
- 6) RIH w- 5 1/2" tbg. conveyed CIBP & set @ 5,525' – PU 1 jt. Pump 130 bbls. heavy mud. Spot 25sx Class C Cement (14.8 ppg, 6.3 gps, 1.32 cfs yield) 5,525' – 5,325' flush with heavy mud. TOOH w- tbg.
- 7) PU & LD tbg. to 5,050' – Spot 30 sxs from 5,050' – 4,850'.
- 8) PU & LD tbg. to 3,505' – Spot 30 sxs from 3,505' – 3,305'.
- 9) RU WL & Perforate 4 holes @ 1,050'. RD MO wireline.
- 10) RIH w- Pkr & tbg. – set Pkr – Attempt to establish pump rate. Squeeze 80 sx Class C Cement (14.8 ppg, 6.3 gps, 1.32 cfs yield) from 1050' to 850'.
- 11) **WOC & Tag @ 850'.**
- 12) RU WL – Perf @ 200' - Attempt to circulate 80 sxs. cmt. to surface – if unable to circulate, Spot 30 sxs. from 200' to surface.
- 13) RDMO Service Unit. RDMO Cementers.
- 14) MIRU Welder. Cut-off casing head. WO cap with well name and number, operator name, and date.
- 15) Pull safety anchors, dress, and reclaim surface location if necessary.

RKI Contact List:

WPX	Title	Office	Cell
Danny Emerson	Production Superintendent	575-885-1313	505-614-4867
Scott Armstrong	Permian Production Engineer	539-573-0162	918-557-9944
Brad Ballinger	Permian Production Engineer	539-573-0135	303-928-0799
Heather Stephens	Permian Production Engineer	539-573-8961	303-898-3918
David Hernandez	Permian Production Engineer	539-573-0205	918-282-8382
Josh Walker	Regulatory Specialist	539-573-0108	580-716-0330
Les Peeler	Plugging Consultant	405-659-5185	405-318-4726

Emergency Contacts – New Mexico:

Hospital: Carlsbad Medical Center (575) 887-4100
2430 W. Pierce St., Carlsbad, NM 88220

Sheriff's Office: Lea County Sheriff Dept (575) 396-3611
Eddy County Sheriff Dept (575) 887-7551

Emergency Contacts – Texas:

Hospital: Reeves County Hospital (432) 447-3551
2323 Texas St, Pecos TX 79772

Sheriff's Office: Reeves County Sheriff Dept (432) 445-4901
Loving County Sheriff Dept (432) 377-2411

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972

Permanent Abandonment of Federal Wells
Conditions of Approval

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within **ninety (90)** days from the approval date of this Notice of Intent to Abandon.

If you are unable to plug the well by the 90th day provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.

The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-393-3612.

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. Dry Hole Marker: All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). **The BLM is to be notified a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10th day, the BLM is to be contacted with justification to receive an extension for completing the cut off.**

The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement, unless otherwise noted in COA (requirements will be attached). The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds).

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**

8. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.