

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010**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.  
NMNM0555443

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**7. If Unit or CA/Agreement, Name and/or No.  
NMNM71027X

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.  
ROSS DRAW UNIT 54

2. Name of Operator

RKI EXPLORATION AND PRODUCTION

Contact: JODY NOERDLINGER

Email: JNOERDLINGER@RKIXP.COM

9. API Well No.  
30-015-41975

3a. Address

210 PARK AVE. SUITE 900  
OKLAHOMA CITY, OK 73102

3b. Phone No. (include area code)

Ph: 405-996-0577

10. Field and Pool, or Exploratory  
ROSS DRAW; DELAWARE, EAST

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 27 T26S R30E Mer NMP SWNW 2310FNL 330FWL

11. County or Parish, and State

EDDY COUNTY, NM

**12. CHECK 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"/> Fracture Treat	<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 checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Drilling Operations
	<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 recompleat 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 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall 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 seeks approval to change the casing design on the subject well, scheduled to spud on Sunday, July 14, 2014.

Proposed change: reduce production hole size from 8 3/4" to 7 7/8".

The proposed revised drilling program is attached.

NM OIL CONSERVATION  
ARTESIA DISTRICT  
DEC 30 2014  
RECEIVED

RD 1/5/15  
Accepted for record  
NM/OCD

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

Electronic Submission #252050 verified by the BLM Well Information System  
For RKI EXPLORATION AND PRODUCTION, sent to the Carlsbad  
Committed to AFMSS for processing by DEBORAH HAM on 12/17/2014 ()

Name (Printed/Typed) JODY NOERDLINGER

Title REGULATORY ANALYST

ACCEPTED FOR RECORD

Signature (Electronic Submission)

Date 07/08/2014

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

DEC 19 2014

Approved By

Title

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.

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

RKI Exploration & Production, LLC

Well RDU 54  
 Location 2,310' FNL 330' FWL Surface  
 2,310' FNL 330' FWL Bottom Hole  
 Section 27-26S-30E  
 County Eddy  
 State New Mexico

- 1) The elevation of the unprepared ground is 2,992 feet above sea level.
- 2) The geologic name of the surface formation is Quaternary - Alluvium.
- 3) A rotary rig will be utilized to drill the well to 7,578 feet and run casing.  
 This equipment will then be rigged down and the well will be completed with a workover rig.
- 4) Proposed depth is 7,578 feet

5) Estimated tops:

	MD	TVD	
Rustler	841	841	
Salado	1,140	1,140	
Castile	1,589	1,589	
Lamar Lime	3,200	3,200	
Base of Lime	3,392	3,392	
Delaware Top	4,394	4,394	
Bell Canyon Sand	4,394	4,394	Oil 1,903 psi
Cherry Canyon Sand	4,528	4,528	Oil 1,961 psi
Brushy Canyon Sand	7,000	7,000	Oil 3,031 psi
Bone Spring	7,278	7,278	
TD	7,578	7,578	148 degree F

The Bone Spring will be penetrated as Rathole to enable the entire Brushy Canyon to be logged.

6) Casing program:

Hole Size	Top	Bottom	OD Csg	Wt/Grade	Connection	Collapse Design Factor	Burst Design Factor	Tension Design Factor
17 1/2"	0	870	13 3/8"	54.5#/J-55	ST&C	3.00	6.10	10.84
12 1/4"	0	3,500	9 5/8"	40#/J-55	LT&C	1.33	5.30	3.71
7 7/8"	0	7,578	5 1/2"	17#/N-80	LT&C	1.91	1.55	2.70

7) Cement program:

<b>Surface</b>	17 1/2" hole
Pipe OD	13 3/8"
Setting Depth	870 ft
Annular Volume	0.69462 cf/ft
Excess	100 %
Lead	542 sx 1.74 cf/sk 13.5 ppg
Tail	200 sx 1.33 cf/sk 14.8 ppg
Lead: "C" + 4% PF20 + 2% PF1 + .125 pps PF29 + .2% PF46	
Tail: "C" + 1% PF1	
Top of cement:	Surface
<b>Intermediate</b>	12 1/4" hole
Pipe OD	9 5/8"
Setting Depth	3,500 ft
Annular Volume	0.31318 cf/ft 0.3627 cf/ft
Excess	50 %
Lead	669 sx 1.92 cf/sk 12.6 ppg
Tail	200 sx 1.33 cf/sk 14.8 ppg
Lead: 35/65 Poz "C" + 5% PF44 + 6% PF20 + 3 pps PF42 + .125 pps PF29 + .2% PF46 + 1% PF1	
Tail: "C" + .2% PF13	
Top of cement:	Surface

**Production** 7 7/8" hole  
**Pipe OD** 5 1/2"  
**Setting Depth** 7,578 ft  
**Annular Volume** 0.1733 cf/ft 0.26074 cf/ft 300 ft  
**Excess** 0.4 40 %  
**DV Tool Depth** 5500 ft

**Stage 1**

**Lead:** 341 sx 1.48 cf/sk 13.0 ppg  
 Lead: PVL + 2% PF174 + .3% PF167 + .1% PF65 + .2% PF13 + .25 pps PF46  
**Top of cement:** DV tool

**Stage 2**

**Lead:** 236 sx 1.89 cf/sk 12.9 ppg  
**Tail:** 100 sx 1.48 cf/sk 13.0 ppg  
 Lead: 35/65 Poz "C" + 5% PF44 + 6% PF20 + 3 pps PF42 + .2% PF13 + .125 pps PF130 + .25 pps PF46  
 Tail: PVL + 2% PF174 + .3% PF167 + .1% PF65 + .2% PF13 + .25 pps PF46  
**Top of cement:** 3,200 ft

**8) Pressure control equipment:**

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram type (3,000 psi WP) preventer, a bag-type annular preventer (3,000 psi WP), and rotating head. Both units will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and pipe ram: (sized to accommodate the drill pipe size being utilized) on bottom. A 13 3/8" SOW x 13 5/8" 3M casing head will be installed on the 13 3/8" casing and utilized until total depth is reached. All BOP and associated equipment will be tested to 3,000 psi and the annular will be tested to 1,500 psi after setting the 13 3/8" string. The 13 3/8" and 9 5/8" casing will be tested to .22 psi per ft of casing string length or 1,500 psi whichever is greater, but not to exceed 70% of the minimum yield.  
 The 9 5/8" casing will be hung in the casing head and the stack will not be nipped down at this point.  
 The stack will not be isolated and tested after running the 9 5/8" casing, but will be tested along with the 9 5/8" casing. Pipe rams will be operated and checked each 24 hour period and each time the drill string is out of the hole. These function test will be documented on the daily driller's log.  
 A drilling spool or blowout preventer with 2 side outlets (choke side shall be 3" minimum diameter, kill side shall be at least 2" diameter).  
 2 kill line valves, one of which will be a check valve.  
 2 chokes on the manifold along with a pressure gauge.  
 Upper kelly cock valve with handle available.  
 Safety valve and subs to fit all drill string connections in use.  
 All BOP equipment connections subjected to pressure will be flanged, welded, or clamped.  
 Fill up line above the upper most preventer.

**9) Mud program:**

Top	Bottom	Mud Wt.	Vis	PV	YP	Fluid Loss	Type System
0	870	8.5 to 8.9	32 to 36	6 - 12	2 - 8	NC	Fresh Water
870	3,500	9.8 to 10.0	28 to 30	1 - 6	1 - 6	NC	Brine
3,500	7,578	8.9 to 9.1	28 to 36	1 - 6	1 - 6	NC	Fresh Water

**10) Logging, coring, and testing program:**

No drill stem test are planned  
 Total depth to intermediate: CNL, Caliper, GR, DLL,  
 Intermediate to surface: CNL, GR  
 No coring is planned

**11) Potential hazards:**

No abnormal pressure or temperature is expected. No H2S is known to exist in the area.  
 Lost circulation can occur in, lost circulation will be on location and readily available if needed.

**12) Anticipated Start Date** ASAP  
**Duration** 15 days