

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.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMMN0555443
2. Name of Operator RKI EXPLORATION & PRODUCTION Contact: HEATHER BREHM E-Mail: hbrehm@rkixp.com		6. If Indian, Allottee or Tribe Name
3a. Address 210 PARK AVENUE, SUITE 900 OKLAHOMA CITY, OK 73102	3b. Phone No. (include area code) Ph: 405-996-5769 Fx: 405-996-5772	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 27 T26S R30E Mer NMP NWNW 330FNL 330FWL 32.011118 N Lat, 103.623576 W Lon		8. Well Name and No. ROSS DRAW UNIT 52
		9. API Well No. 30-015-41973
		10. Field and Pool, or Exploratory ROSS DRAW; DELAWARE, EAST
		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 checked="" 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 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 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 respectfully requests to change the production hole size from 8-3/4" to 7-7/8".

AD 1/5/2005
Accepted for record
NMOCD

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 30 2014

RECEIVED

Work already done. Dmt

14. I hereby certify that the foregoing is true and correct.		Electronic Submission #258124 verified by the BLM Well Information System For RKI EXPLORATION & PRODUCTION, sent to the Carlsbad Committed to AFMSS for processing by DEBORAH HAM on 12/18/2014	
Name (Printed/Typed)	HEATHER BREHM	Title	REGULATORY ANALYST
Signature	(Electronic Submission)	Date	08/25/2014
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		DEC 18 2014	
Approved By		BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE	
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 for C. 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.

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

RKI Exploration & Production, LLC

Well RDU54
 Location 330' FNL 330' FWL Surface
 330' FNL 330' FWL Bottom Hole
 Section 27-26S-30E
 County Eddy
 State New Mexico

- 1) The elevation of the unprepared ground is 3,010 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 7,500 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 7,500 feet

5) Estimated tops:

	MD	TVD	
Rustler	750	750	
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	7,500	7,500	146 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	750	13 3/8"	54.5#/J-55	ST&C	3.48	7.07	12.57
12 1/4"	0	3,540	9 5/8"	40#/J-55	LT&C	1.32	5.24	3.67
7 7/8"	0	7,500	5 1/2"	17#/N-80	LT&C	1.93	1.55	2.73

7) Cement program:

Surface	17 1/2" hole	
Pipe OD	13 3/8"	
Setting Depth	750 ft	
Annular Volume	0.69462 cf/ft	
Excess	1	100 %
Lead	446 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
Intermediate	12 1/4" hole	
Pipe OD	9 5/8"	
Setting Depth	3,540 ft	
Annular Volume	0.31318 cf/ft	0.3627 cf/ft
Excess	0.5	50 %
Lead	686 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	7,500 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:	328 sx	1.48 cf/sk	13.0 ppg
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Lead: PVL + 2% PF174 + .3% PF167 + .1% PF65 + .2% PF13 + .25 pps PF46

Top of cement: DV tool

Stage 2

Lead:	231 sx	1.89 cf/sk	12.9 ppg
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Tail:	100 sx	1.48 cf/sk	13.0 ppg
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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: 3,240 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 rams (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	750	8.5 to 8.9	32 to 36	6 - 12	2 - 8	NC	Fresh Water
750	3,540	9.8 to 10.0	28 to 30	1 - 6	1 - 6	NC	Brine
3,540	7,500	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