

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesla

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. NMNM91078
2. Name of Operator RKI EXPLORATION & PROD LLC		6. If Indian, Allottee or Tribe Name
Contact: CHARLES K AHN E-Mail: cahn@rkixp.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 210 PARK AVE SUITE 900 OKLAHOMA CITY, OK 73102	3b. Phone No. (include area code) Ph: 405-996-5771 Fx: 405-996-5772	8. Well Name and No. LONGVIEW FEDERAL 12 4H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 12 T23S R28E NENE 0565FNL 0335FEL 32.193337 N Lat, 104.015904 W Lon		9. API Well No. 30-015-42238-00-X1
		10. Field and Pool, or Exploratory UNDESIGNATED
		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 Drilling Operations
	<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 Exploration & Production, LLC requests authorization to remove the 7-inch intermediate string from the casing design by continuing with an 8.75 inch hole size to TD then run a 5.5 inch production casing. Updated drilling program is attached for reference.

NM OIL CONSERVATION

ARTESIA DISTRICT

NOV 09 2015

Accepted for record
NMOC

RECEIVED

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #322076 verified by the BLM Well Information System For RKI EXPLORATION & PROD LLC, sent to the Carlsbad Committed to AFMSS for processing by CHRISTOPHER WALLS on 10/30/2015 (16CRW0004SE)	
Name (Printed/Typed) CHARLES K AHN	Title HS&E/REGULATORY MANAGER
Signature (Electronic Submission)	Date 10/30/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS	Title PETROLEUM ENGINEER	Date 11/02/2015
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 Carlsbad

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

RKI Exploration & Production, LLC

Well Longview 12-4H
 Location Surface: 565 FNL 335 FEL Sec. 12-23S-28E
 Bottom Hole: 330 FNL 395 FEL Sec. 1-23S-28E
 County Eddy
 State New Mexico

- 1) The elevation of the unprepared ground is 3,028 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 13,973 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 13,973 feet

5) Estimated tops:

	MD	TVD		BHP = .44 psi/ft x depth
Base_ Lamar	3,000	3,000		
Delaware	3,256	3,256	Oil	1,433 psi
Cherry Canyon	3,811	3,811	Oil	1,677 psi
Kingrea	5,628	5,628	Oil	2,476 psi
Bone Spring Lime	6,638	6,335	Oil	2,921 psi
1st BoneSpring SS	7,543	7,435	Oil	3,319 psi
KOP	7,769	7,748	Oil	3,418 psi
2nd BoneSpring SS	8,386	8,151	Oil	3,690 psi
Landing Point (2nd Bonespring)	9,006	8,392	Oil	3,692 psi
TD	13,973	8,362		3,679 psi

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	225	13 3/8"	54.5#/J-55	ST&C	11.41	55.15	41.92
12 1/4"	0	4,000	9 5/8"	40#/J-55	LT&C	1.15	4.49	3.25
8 3/4"	0	13,973	5 1/2"	17#/HCP-110	BT&C	2.17	1.55	5.08
Collapse	1.125							
Burst	1.0							
Tension	2.0							

7) Cement program:

Surface 17 1/2" hole
 Pipe OD 13 3/8"
 Setting Depth 225 ft
 Annular Volume 0.69462 cf/ft
 Excess 1 100 %
 Lead 27 sx 1.75 cf/sk 9.13 gal/sk 13.5 ppg
 Tail 200 sx 1.33 cf/sk 6.30 gal/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 4,000 ft
 Annular Volume 0.31318 cf/ft 0.3627 cf/ft 50 %
 Excess 0.5
 Lead 780 sx 1.92 cf/sk 9.95 gal/sk 12.6 ppg
 Tail 200 sx 1.33 cf/sk 6.32 gal/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	8 3/4"	hole		
Pipe OD	5 1/2"			
Setting Depth	13,973	ft		
Annular Volume	0.2526	cf/ft	0.26074	cf/ft 300 ft
Excess	0.32		32 %	
DV Tool Depth	5000	ft		

Stage 1

Lead:	687	sx	2.08	cf/sk	11.94	gal/sk	11.5	ppg
Tail:	836	sx	1.87	cf/sk	9.53	gal/sk	13.0	ppg
Lead:	PVL + .5% CC + .3% PF79 (extender) + .25 pps PF46 (defoamer) + 3 pps PF42 (Kolite) + .125 pps + .125 pps PF29 (Cellophane) + .2% PF13 (retarder)							
Tail:	PVL + 30% PF151 (calcium carbonate) + .5% PF174 (expanding agent) + .7% PF606 + .7% PF606 (gel suppressing agent) + .2% PF153 (antisetling agent) + .25 pps PF46 (antifoam) + .2% PF13 (retarder)							
Top of cement:	DV tool							

Stage 2

Lead:	108	sx	1.89	cf/sk	10.06	gal/sk	12.9	ppg
Tail:	175	sx	1.33	cf/sk	6.32	gal/sk	14.8	ppg
Lead:	35/65 Poz "C" + 5% PF44 (salt) + 6% PF20 (gel) + .125 pps PF29 (cellophane) + .25 pps PF46 (antifoam) + .2% PF13 (retarder)							
Tail:	"C" + .2% PF13 (retarder)							
Top of cement:	3,700 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	Fluid Loss	Type System
0	225	8.5 to 8.9	32 to 36	NC	Fresh Water
225	4,000	9.8 to 10.0	28 to 30	NC	Brine
4,000	13,973	8.9 to 9.1	28 to 36	NC	Fresh Water

10) Logging, coring, and testing program:

No drillstem 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 pressures or temperatures are expected. There is no known presences of H2S in this area, although some form a of H2S detection equipment will be utilized. Gas and pit level monitoring equipment will be utilized below the 9 5/8" casing as deemed necessary. Lost circulation and weighting material will be available.

12) Anticipated start date	ASAP
Duration	25 days

Conditions of Approval

Longview Federal 12 4H

3001542238

1. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Operator has proposed DV tool at a depth of 5000'. Operator is to submit sundry if DV tool depth varies by more than 100' from approved depth.

a. First stage to DV tool:

- ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.

b. Second stage above DV tool:

- ☒ Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. **Additional Cement may be required, as excess calculates to 14%**