

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. NMNM20965

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator RKI EXPLORATION & PRODUCTION LLC

3a. Address 3500 ONE WILLIAMS CENTER MD-35
TULSA, OK 741723b. Phone No. (include area code)
(539) 573-0108

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

Sec 17 T26S R30E Mer NMP NENE 175FNL 1310FEL 32.049380 N Lat, 103.882450 W Lon

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

8. Well Name and No. RDX FEDERAL COM 17 40H

9. API Well No. 30-015-43634

10. Field and Pool or Exploratory Area
WOLFCAMP11. Country or Parish, State
EDDY COUNTY, NM**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ 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 must 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 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.)

Sidetrack plan on RDX Federal Com 17-40H; following up with verbal approval of procedure. We drilled to 6,725' MD and lost returns. We regained returns while spotting LCM and attempted to go back to drilling. While washing to bottom we became stuck at 6,715' MD. We made several attempts to retrieve the fish without success. We are planning to mill a window through 9-5/8" and sidetrack the wellbore. I've attached the 9-5/8" bond log, revised directional plan, and anti-collision report.

Well Details:

Hole Depth: 6,725'

Bottom of fish: 6,715'

Top of fish: 6,553'

9-5/8" Casing Shoe 6,435'

Planned whipstock depth: 6,070'

CIRP@ 6070

See attachments

NM OIL CONSERVATION
ARTESIA DISTRICT

MAY 27 2016

RECEIVED

Approved per Verbal on 5/18/16

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Josh Walker

Regulatory Specialist

Title

Signature

Date

05/19/2016

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Eng

Date

5/19/16

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.

(Instructions on page 2)

Accepted for record - NMOCD

5/21/16

WPX

Eddy County, NM (Nad83NME)

Sec 17-T26S-R30E

RDX Fed Com 17-40H

ST01

Plan: Design #1

QES Curve Report

18 May, 2016

QES

Curve Report

Database:	EDM5002	Local Co-ordinate Reference:	Well RDX Fed Com 17-40H
Company:	WPX	TVD Reference:	Well @ 3111.0usft (Orion - Phoenix)
Project:	Eddy County, NM (Nad83NME)	MD Reference:	Well @ 3111.0usft (Orion - Phoenix)
Site:	Sec.17-T26S-R30E	North Reference:	Grid
Well:	RDX Fed Com 17-40H	Survey Calculation Method:	Minimum Curvature
Wellbore:	STO1		
Design:	Design #1		

Project:	Eddy County, NM (Nad83NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Sec 17-T26S-R30E		
Site Position:		Northing:	381,974.10 usft
From:	Map	Easting:	672,766.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 57.901 N
		Longitude:	103° 54' 32.861 W
		Grid Convergence:	0.23 °

Well:	RDX Fed Com 17-40H		
Well Position	+N/-S	-1.1 usft	Northing:
	+E/-W	3,102.9 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 2' 57.768 N
		Longitude:	103° 53' 56.808 W
		Ground Level:	3,086.0 usft

Wellbore:	STO1		
Magnetics:	Model Name:	Sample Date:	Declination:
	IGRF2015	5/18/2016	7.21
			Dip Angle:
			59.86
			Field Strength:
			47,912

Design:	Design #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			6,011.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			168.94

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
6,011.0	9.80	75.00	5,984.5	45.9	372.7	0.00	0.00	0.00	0.00	
6,058.0	9.95	75.50	6,030.8	47.9	380.5	0.37	0.32	1.06	30.00	
6,070.0	12.25	85.54	6,042.6	48.3	382.7	25.00	19.20	83.68	45.00	
6,075.0	12.25	85.54	6,047.5	48.4	383.8	0.00	0.00	0.00	0.00	
6,280.5	12.25	105.00	6,248.4	44.4	426.6	2.00	0.00	9.47	99.57	
6,330.5	12.25	105.00	6,297.3	41.7	436.9	0.00	0.00	0.00	0.00	
6,613.9	10.00	77.65	6,575.6	39.2	490.0	2.00	-0.79	-9.65	-126.13	
9,019.9	10.00	77.65	8,945.0	128.5	898.1	0.00	0.00	0.00	0.00	
9,391.7	0.17	178.96	9,314.9	134.9	929.8	2.70	-2.64	27.25	179.04	
10,260.9	0.17	178.96	10,184.1	132.3	929.8	0.00	0.00	0.00	0.00	
10,709.2	45.00	179.89	10,587.5	-35.5	930.1	10.00	10.00	0.21	0.93	
10,809.2	45.00	179.89	10,658.2	-106.2	930.3	0.00	0.00	0.00	0.00	
11,263.6	90.44	179.89	10,826.0	-515.8	931.1	10.00	10.00	0.00	0.00	
15,552.7	90.44	179.89	10,793.0	-4,804.7	939.2	0.00	0.00	0.00	0.00	0.00-PBHL RDX Fed Co

QES

Curve Report

Database:	EDM5002	Local Co-ordinate Reference:	Well RDX Fed Com 17-40H
Company:	WPX	TVD Reference:	Well @ 3111.0usft (Orion - Phoenix)
Project:	Eddy County, NM (Nad83NME)	MD Reference:	Well @ 3111.0usft (Orion - Phoenix)
Site:	Sec 17-T26S-R30E	North Reference:	Grid
Well:	RDX Fed Com 17-40H	Survey Calculation Method:	Minimum Curvature
Wellbore:	STO1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Start DLS 10.00 TFO 0.93									
10,260.9	0.17	178.96	10,184.1	132.3	929.8	48.5	0.00	0.00	0.00
10,290.0	3.08	179.84	10,213.2	131.5	929.8	49.3	10.00	10.00	3.02
10,320.0	6.08	179.87	10,243.1	129.1	929.8	51.7	10.00	10.00	0.09
10,350.0	9.08	179.88	10,272.8	125.1	929.8	55.6	10.00	10.00	0.03
10,380.0	12.08	179.88	10,302.3	119.6	929.8	61.0	10.00	10.00	0.01
10,410.0	15.08	179.88	10,331.4	112.6	929.8	67.9	10.00	10.00	0.01
10,440.0	18.08	179.88	10,360.2	104.0	929.9	76.3	10.00	10.00	0.01
10,470.0	21.08	179.89	10,388.5	94.0	929.9	86.2	10.00	10.00	0.00
10,500.0	24.08	179.89	10,416.2	82.4	929.9	97.5	10.00	10.00	0.00
10,530.0	27.08	179.89	10,443.2	69.5	929.9	110.2	10.00	10.00	0.00
10,560.0	30.08	179.89	10,469.6	55.1	930.0	124.3	10.00	10.00	0.00
10,590.0	33.08	179.89	10,495.1	39.4	930.0	139.7	10.00	10.00	0.00
Wolfcamp									
10,619.0	35.98	179.89	10,519.0	23.0	930.0	155.8	10.00	10.00	0.00
10,620.0	36.08	179.89	10,519.8	22.4	930.0	156.4	10.00	10.00	0.00
10,650.0	39.08	179.89	10,543.6	4.1	930.1	174.4	10.00	10.00	0.00
10,680.0	42.08	179.89	10,566.4	-15.4	930.1	193.5	10.00	10.00	0.00
Start 100.0 hold at 10709.2 MD									
10,709.2	45.00	179.89	10,587.5	-35.5	930.1	213.3	10.00	10.00	0.00
10,710.0	45.00	179.89	10,588.1	-36.1	930.1	213.8	0.00	0.00	0.00
10,740.0	45.00	179.89	10,609.3	-57.3	930.2	234.7	0.00	0.00	0.00
10,770.0	45.00	179.89	10,630.5	-78.5	930.2	255.5	0.00	0.00	0.00
10,800.0	45.00	179.89	10,651.7	-99.7	930.3	276.3	0.00	0.00	0.00
Start DLS 10.00 TFO 0.00									
10,809.2	45.00	179.89	10,658.2	-106.2	930.3	282.7	0.00	0.00	0.00
10,830.0	47.08	179.89	10,672.7	-121.2	930.3	297.4	10.00	10.00	0.00
Wolfcamp A									
10,857.6	49.84	179.89	10,691.0	-141.9	930.3	317.7	10.00	10.00	0.00
10,860.0	50.08	179.89	10,692.5	-143.7	930.3	319.5	10.00	10.00	0.00
10,890.0	53.08	179.89	10,711.2	-167.2	930.4	342.6	10.00	10.00	0.00
10,920.0	56.08	179.89	10,728.5	-191.6	930.4	366.6	10.00	10.00	0.00
10,950.0	59.08	179.89	10,744.6	-217.0	930.5	391.4	10.00	10.00	0.00
10,980.0	62.08	179.89	10,759.4	-243.1	930.5	417.1	10.00	10.00	0.00
11,010.0	65.08	179.89	10,772.7	-269.9	930.6	443.5	10.00	10.00	0.00
11,040.0	68.08	179.89	10,784.6	-297.5	930.6	470.5	10.00	10.00	0.00
11,070.0	71.08	179.89	10,795.1	-325.6	930.7	498.1	10.00	10.00	0.00
11,100.0	74.08	179.89	10,804.1	-354.2	930.7	526.2	10.00	10.00	0.00
11,130.0	77.08	179.89	10,811.5	-383.3	930.8	554.7	10.00	10.00	0.00
11,160.0	80.08	179.89	10,817.5	-412.7	930.9	583.6	10.00	10.00	0.00
11,190.0	83.08	179.89	10,821.9	-442.3	930.9	612.7	10.00	10.00	0.00
11,220.0	86.08	179.89	10,824.7	-472.2	931.0	642.0	10.00	10.00	0.00
11,250.0	89.08	179.89	10,826.0	-502.2	931.0	671.4	10.00	10.00	0.00
Start 4289.1 hold at 11263.6 MD									
11,263.6	90.44	179.89	10,826.0	-515.8	931.1	684.8	10.00	10.00	0.00

QES

Curve Report

Database:	EDM5002	Local Co-ordinate Reference:	Well RDX Fed Com 17-40H
Company:	WPX	TVD Reference:	Well @ 3111.0usft (Orion - Phoenix)
Project:	Eddy County, NM (Nad83NME)	MD Reference:	Well @ 3111.0usft (Orion - Phoenix)
Site:	Sec 17-T26S-R30E	North Reference:	Grid
Well:	RDX Fed Com 17-40H	Survey Calculation Method:	Minimum Curvature
Wellbore:	STO1		
Design:	Design #1		

Design Targets										
Target Name	hit/miss target	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
FTP RDX Fed Com 1		0.00	0.00	0.0	-147.4	980.3	381,825.60	676,849.20	32° 2' 56.270 N	103° 53' 45.425 W
	- plan misses target center by 10188.1usft at 10260.9usft MD (10184.1 TVD, 132.3 N, 929.8 E)									
	- Point									
VP RDX Fed Com 17		0.00	0.00	10,188.7	132.3	929.8	382,105.26	676,798.70	32° 2' 59.040 N	103° 53' 45.998 W
	- plan hits target center									
	- Point									
PBHL RDX Fed Com		-0.44	179.89	10,793.0	-4,804.7	939.2	377,168.25	676,808.09	32° 2' 10.183 N	103° 53' 46.121 W
	- plan misses target center by 4289.1usft at 11263.6usft MD (10826.0 TVD, -515.8 N, 931.1 E)									
	- Rectangle (sides W100.0 H4,289.2 D30.0)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
7,416.6	7,366.0	Bone Spring				
8,306.1	8,242.0	1st Bone Spring				
9,133.2	9,057.0	2nd Bone Spring				
10,233.8	10,157.0	3rd Bone Spring				
10,619.0	10,519.0	Wolfcamp				
10,857.6	10,691.0	Wolfcamp A				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
(usft)	(usft)	(usft)	(usft)		
6,011.0	5,984.5	45.9	372.7	Tie in ST00	
6,058.0	6,030.8	47.9	380.5	Top Whipstock	
6,070.0	6,042.6	48.3	382.7	Bottom Whipstock	
6,075.0	6,047.5	48.4	383.8	Start DLS 2.00 TFO 99.57	
6,280.5	6,248.4	44.4	426.6	Start 50.0 hold at 6280.5 MD	
6,330.5	6,297.3	41.7	436.9	Start DLS 2.00 TFO -126.13	
6,613.9	6,575.6	39.2	490.0	Start 2406.0 hold at 6613.9 MD	
9,019.9	8,945.0	128.5	898.1	Start DLS 2.70 TFO 179.04	
9,391.7	9,314.9	134.9	929.8	Start 869.2 hold at 9391.7 MD	
10,260.9	10,184.1	132.3	929.8	Start DLS 10.00 TFO 0.93	
10,709.2	10,587.5	-35.5	930.1	Start 100.0 hold at 10709.2 MD	
10,809.2	10,658.2	-106.2	930.3	Start DLS 10.00 TFO 0.00	
11,263.6	10,826.0	-515.8	931.1	Start 4289.1 hold at 11263.6 MD	
15,552.7	10,793.0	-4,804.7	939.2	TD at 15552.7	