

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011
Permit 263375

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address RKI EXPLORATION & PRODUCTION, LLC 3500 One Williams Center Tulsa, OK 74172		2. OGRID Number 246289
4. Property Code 325000		3. API Number 30-015-45744
5. Property Name SHEPHERD 3 2 23 27 FEE		6. Well No. 401H

7. Surface Location

UL - Lot L	Section 3	Township 23S	Range 27E	Lot Idn	Feet From 2361	N/S Line S	Feet From 1195	E/W Line W	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot H	Section 2	Township 23S	Range 27E	Lot Idn H	Feet From 2122	N/S Line N	Feet From 230	E/W Line E	County Eddy
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9. Pool Information

PURPLE SAGE;WOLFCAMP (GAS)	98220
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Additional Well Information

11. Work Type New Well	12. Well Type GAS	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 3112
16. Multiple N	17. Proposed Depth 19170	18. Formation Wolfcamp	19. Contractor	20. Spud Date 3/22/2019
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	396	440	0
Int1	12.25	9.625	40	2115	513	0
Int2	8.75	7	29	9503	804	0
Prod	6.125	4.5	13.5	19170	1153	8253

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	1500	CAMERON
Pipe	10000	5000	CAMERON
Pipe	10000	5000	CAMERON
Blind	10000	5000	CAMERON

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

OIL CONSERVATION DIVISION

Signature:

Printed Name: Electronically filed by Roxana M Day

Title:

Email Address: roxana.day@wpenergy.com

Date: 2/12/2019

Phone: 539-573-5278

Approved By: Raymond Podany

Title: Geologist

Approved Date: 2/20/2019

Expiration Date: 2/20/2021

Conditions of Approval Attached

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code 98220		³ Pool Name PURPLE SAGE WOLFCAMP GAS POOL	
⁴ Property Code		⁵ Property Name SHEPHERD 3-2-23-27 FEE			⁶ Well Number 401H
⁷ OGRID No. 264289		⁸ Operator Name RKI EXPLORATION & PRODUCTION, LLC			⁹ Elevation 3,112'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	3	23 S	27 E		2,361	SOUTH	1,195	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	2	23 S	27 E		2,122	NORTH	230	EAST	EDDY

¹² Dedicated Acres 638.4 AC N/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

		<p>¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature: <i>Larry E. Rader</i> Date: 1/15/19 Printed Name: Larry E. Rader E-mail Address: larry.rader@wpenergy.com</p>
<p>SURFACE LOCATION NAD 83 NME Y= 485,091.6 X= 587,845.9 LAT.= 32.333499°N LONG.= 104.182753°W NAD 27 NME Y= 485,032.4 X= 546,664.4 LAT.= 32.333380°N LONG.= 104.182251°W</p> <p>FIRST TAKE POINT NAD 83 NME Y= 485,847.0 X= 586,994.1 LAT.= 32.335578°N LONG.= 104.185507°W NAD 27 NME Y= 485,787.8 X= 545,812.6 LAT.= 32.335459°N LONG.= 104.185006°W</p>		<p>LAST TAKE POINT NAD 83 NME Y= 485,933.3 X= 596,960.4 LAT.= 32.335774°N LONG.= 104.153238°W NAD 27 NME Y= 485,874.0 X= 555,778.8 LAT.= 32.335654°N LONG.= 104.152738°W</p> <p>BOTTOM HOLE LOCATION NAD 83 NME Y= 485,934.1 X= 597,060.4 LAT.= 32.335775°N LONG.= 104.152915°W NAD 27 NME Y= 485,874.8 X= 555,878.8 LAT.= 32.335656°N LONG.= 104.152414°W</p>
		<p>¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>01-11-2019 Date of Survey Signature and Seal of Professional Surveyor: MARK DILLON HARP 23786 Certificate Number RR 2018041045</p>

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Santa Fe, NM 87505

Form APD Comments

Permit 263375

PERMIT COMMENTS

Operator Name and Address: RKI EXPLORATION & PRODUCTION, LLC [246289] 3500 One Williams Center Tulsa, OK 74172		API Number: 30-015-45744
		Well: SHEPHERD 3 2 23 27 FEE #401H
Created By	Comment	Comment Date
lrader	SURFACE LOCATION IS OFF LEASE.	2/7/2019

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Form APD Conditions

Permit 263375

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:		API Number:
RKI EXPLORATION & PRODUCTION, LLC [246289]		30-015-45744
3500 One Williams Center		Well:
Tulsa, OK 74172		SHEPHERD 3 2 23 27 FEE #401H
OCD Reviewer	Condition	
rpodany	Will require a directional survey with the C-104	
rpodany	Cement is required to circulate on both surface and intermediate1 strings of casing	