

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address RKI EXPLORATION & PRODUCTION 210 PARK AVE, STE. 700 OKLAHOMA CITY, OK 73102		² OGRID Number 246289
		³ Reason for Filing Code/ Effective Date NW 2/28/2016
⁴ API Number 30 - 0 15-43294	⁵ Pool Name <i>Brushy Draw</i> ROSS-DRAW WOLFCAMP	⁶ Pool Code 84330 97136
⁷ Property Code 40485	⁸ Property Name RDX FEDERAL COM 28	⁹ Well Number 9H

II. 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
C	28	26S	30E		360	N	1345	W	EDDY

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	33	26S	30E		<i>230 231</i>	S	<i>130 476</i>	W	EDDY

¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 2/28/16	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
214984	PLAINS	O
504685	LOBOS	G

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ARTESIA DISTRICT
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IV. Well Completion Data

²¹ Spud Date 11/16/2015	²² Ready Date 2/28/2016	²³ TD 17,649'	²⁴ PBDT 17,587'	²⁵ Perforations 11,311'-17,537'	²⁶ DHC, MC
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²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement
17-1/2"	13-3/8" J-55, 54.5#	620'	1005
12-1/4"	9-5/8" HCL-80 LTC 40#	8234'	2700
8-3/4"	5-1/2" P-110 20#	17,683'	2040

V. Well Test Data

³¹ Date New Oil 2/28/2016	³² Gas Delivery Date 2/28/2016	³³ Test Date 3/19/16	³⁴ Test Length 24 HRS	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 3100
³⁷ Choke Size 22/64	³⁸ Oil 385	³⁹ Water 2902	⁴⁰ Gas 1483		⁴¹ Test Method FLOWING

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Heather Brehm*

Printed name: Heather Brehm

Title: Regulatory Analyst

E-mail Address: heather.brehm@wpenergy.com

Date: 4.20.2016

Phone: 539.573.7512

OIL CONSERVATION DIVISION

Approved by: *Karen Sharp*

Title: *Bus Op Spec-Adv*

Approval Date: *4-21-16*

105

NM OIL CONSERVATION

ARTESIA DISTRICT

APR 25 2016

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM19612

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____			6. If Indian, Allottee or Tribe Name 7. Unit or CA Agreement Name and No.		
2. Name of Operator RKI EXPLORATION & PRODUCTION-Email: heather.brehm@wpenergy.com Contact: HEATHER BREHM			8. Lease Name and Well No. RDX FEDERAL COMM 28 9H		
3. Address 210 PARK AVE. STE. 700 OKLAHOMA CITY, OK 73102			3a. Phone No. (include area code) Ph: 539-573-7512		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 28 T26S R30E Mer NMP At surface NENW 360FNL 1345FWL 32.019670 N Lat, 103.890480 W Lon Sec 28 T26S R30E Mer NMP At top prod interval reported below NWNW 888FNL 441FWL Sec 33 T26S R30E Mer NMP At total depth SWNW 231FSL 476FWL			10. Field and Pool, or Exploratory UNDESIGNATED WOLFCAMP 11. Sec., T., R., M., or Block and Survey or Area Sec 28 T26S R30E Mer NMP 12. County or Parish EDDY 13. State NM		
14. Date Spudded 11/16/2015		15. Date T.D. Reached 12/25/2015		16. Date Completed ☐ D & A ☒ Ready to Prod. 02/28/2016	
18. Total Depth: MD 17649 TVD 10709		19. Plug Back T.D.: MD 17587 TVD 10708		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CEMENT, POR, RES			22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☐ No ☒ Yes (Submit analysis)		

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J55	54.5	0	620		1005	296	0	
12.250	9.625 HCL80	40.0	0	8234		2700	1101	0	
8.750	5.500 P100	20.0	0	17683	5513	2040	643	5192	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	17515							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	11311	17674	11311 TO 17674	3.130	1188	ACTIVE
B)						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
11311 TO 17674	15%HCL, SLICKWATER/LINEAR/GEL/CROSS LINK, 100 MESH, 40/7 WHITE, 20/40 WHITE, 20/40 CRC

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
02/28/2016	02/28/2016	24	→	385.0	1483.0	2902.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
22/64	0	3100.0	→	385	1483	2902	3851	POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #337045 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
WOLFCAMP	10565	17674	OIL-GAS-WATER	RUSTLER TOP SALT BTM SALT DELAWARE/BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING WOLFCAMP	710 2698 3191 3423 4489 5568 7237 10451

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7. Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #337045 Verified by the BLM Well Information System.
For RKI EXPLORATION & PRODUCTION, sent to the Carlsbad

Name (please print) HEATHER BREHMTitle REGULATORY ANALYST

Signature _____ (Electronic Submission)

Date 04/20/2016

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.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.
NMNM35607

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.8. Well Name and No.
RDX FEDERAL COM 28 9H9. API Well No.
30-015-43294-00-X110. Field and Pool, or Exploratory
UNDESIGNATED11. County or Parish, and State
EDDY COUNTY, NM1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator
RKI EXPLORATION & PROD LLC Contact: HEATHER BREHM
E-Mail: hbrehm@rkixp.com3a. Address
210 PARK AVE SUITE 900
OKLAHOMA CITY, OK 73102
3b. Phone No. (include area code)
Ph: 405-996-5769
Fx: 405-949-22234. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 28 T26S R30E NENW 360FNL 1345FWL

12. CHECK 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	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Drilling Operations
	☐ 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 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.)

SURFACE SUNDRY

Well spud 11/16/15
Drilled 17-1/2 hole to 620'. ran 17 Jts, 13 3/8", 54.5#, J-55, ST&C Casing, Total pipe 714.04',
Shoe set @ 709.04', FC set @ 666.57'
Test lines to 2000 psi.Lead Cmt 805sx Standard Lite mixed @ 13.5 ppg & 1.72 cuft/sk.
Tail Cmt 200 sx Standard mixed @ 14.8 ppg & 1.33 cuft/sk.
bumped plug to 840 psi, released pressure, recovered 1 bbl of fluid, floats held. Full returns
throughout job, circ 200 bbls of cmt to surface.
Test casing 1500 psi and held for 30 mins.NM OIL CONSERVATION
ARTESIA DISTRICT

APR 25 2016

RECEIVED,

14. I hereby certify that the foregoing is true and correct. Electronic Submission #336925 verified by the BLM Well Information System For RKI EXPLORATION & PROD LLC, sent to the Carlsbad Committed to AFMSS for processing by JENNIFER SANCHEZ on 04/20/2016 (16JAS1474SE)	
Name (Printed/Typed) HEATHER BREHM	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 04/19/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED	(BLM Approver Not Specified)	Date 04/20/2016
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 **

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.
NMNM35607

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
RDX FEDERAL COM 28 9H9. API Well No.
30-015-43294-00-X110. Field and Pool, or Exploratory
UNDESIGNATED11. County or Parish, and State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

RKI EXPLORATION & PROD LLC

Contact: HEATHER BREHM

E-Mail: hbrehm@rkixp.com

3a. Address

210 PARK AVE SUITE 900
OKLAHOMA CITY, OK 73102

3b. Phone No. (include area code)

Ph: 405-996-5769
Fx: 405-949-2223

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

Sec 28 T26S R30E NENW 360FNL 1345FWL

12. CHECK 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	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Drilling Operations
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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INTERMEDIATE SUNDRY

Ran total of 180 jts of 9-5/8" 40# HCL-80 LTC Csg. Set Shoe @ 8234', FC @ 8188', and DV tool @ 5515.

1st Stage cmt. 243 bbls. of cement, 925 sks. PVL mixed @ 13#, yield Bump plug with 920 psi. and held for 5 min. released pressure, recovered 2 bbls of fluid, floats held. No returns throughout job, Dropped opening cone, waited 30 mins and open stage tool w/675 psi. Circulated 50 bbls. of drilling fluid to circulate cement off DV tool, no returns.

2nd Stage 20 bbls. of dyed mud wash, and 817 bbls. of cmt. 1600 sks. 35/65/POZ C+ additives wt 11.6#, yield 2.87.

NM OIL CONSERVATION

ARTESIA DISTRICT

APR 25 2016

RECEIVED

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

Electronic Submission #336927 verified by the BLM Well Information System
For RKI EXPLORATION & PROD LLC, sent to the Carlsbad
Committed to AFMSS for processing by JENNIFER SANCHEZ on 04/20/2016 (16JAS1473SE)

Name (Printed/Typed) HEATHER BREHM

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 04/19/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

ACCEPTED

(BLM Approver Not Specified)

Title

Date 04/20/2016

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 ****

Additional data for EC transaction #336927 that would not fit on the form

32. Additional remarks, continued

2nd Stage tail: 41 bbls of cement , 175 sks C+0.2% PF13, wt 14.8#, yield 1.32,bumped plug w/1400 psi to close DV tool,no returns throughout job
5,000 psi for 15 mins, tested good,
Test 9-5/8" casing to 1500 psi and held 30 mins no leak off.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.
NMNM35607

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.8. Well Name and No.
RDX FEDERAL COM 28 9H9. API Well No.
30-015-43294-00-X110. Field and Pool, or Exploratory
UNDESIGNATED11. County or Parish, and State
EDDY COUNTY, NM1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator
RKI EXPLORATION & PROD LLC Contact: HEATHER BREHM
E-Mail: hbrehm@rkixp.com3a. Address
210 PARK AVE SUITE 900
OKLAHOMA CITY, OK 73102
3b. Phone No. (include area code)
Ph: 405-996-5769
Fx: 405-949-22234. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 28 T26S R30E NENW 360FNL 1345FWL

12. CHECK 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	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Drilling Operations
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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PRODUCTION SUNDRY

Ran 5-1/2" production csg to depth of 14498' total of 428 jts of 5 1/2" 20# P-110 GBCD (6.3 OD Collars) Set Shoe @ 17674', FC @ 17588', test lines to 5000 psi

Lead cmt 625 sx PVL mixed @ 13 ppg & 1.49 cuft/sk.
Tail cmt 1415 sx AcidSolid PVL mixed @ 13 ppg & 1.89 cuft/sk.
final circulating pressure 1800 psi @ 3.0 bpm, bumped plug w/ 2800 psi, released pressure, recovered 4 bbls of fluid, floats held. Circulated 220 bbls of NAFTA Casing Protection to surface. Full returns throughout.

NM OIL CONSERVATION
ARTESIA DISTRICT

APR 25 2016

RECEIVED

14. I hereby certify that the foregoing is true and correct. Electronic Submission #336924 verified by the BLM Well Information System For RKI EXPLORATION & PROD LLC, sent to the Carlsbad Committed to AFMSS for processing by JENNIFER SANCHEZ on 04/20/2016 (16JAS1475SE)	
Name (Printed/Typed) HEATHER BREHM	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 04/19/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED	(BLM Approver Not Specified)	Date 04/20/2016
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

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
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NMNM35607

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.8. Well Name and No.
RDX FEDERAL COM 28 9H9. API Well No.
30-015-43294-00-X110. Field and Pool, or Exploratory
UNDESIGNATED11. County or Parish, and State
EDDY COUNTY, NM1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator
RKI EXPLORATION & PROD LLC Contact: HEATHER BREHM
E-Mail: hbrehm@rkixp.com3a. Address
210 PARK AVE SUITE 900
OKLAHOMA CITY, OK 73102
3b. Phone No. (include area code)
Ph: 405-996-5769
Fx: 405-949-22234. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 28 T26S R30E NENW 360FNL 1345FWL

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☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Drilling Operations
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COMPLETION SUNDRY

began completion activities on 1/28/2016.
Placed 1000 psi on 5 1/2" Prod Csg. Ran RBL/CBL/GR/CCL to 4200', Estimated TOC at 5192'. pressure tested 5 1/2" Prod casing to 9500 psi. monitor pressure for 30 minutes, lost 200 psi. released pressure.
1/31/2016 Perf (17,391'- 17,537')
2/1/2016 Acidize & lay 565 jts tubing EOT 17,515'
Frac & Perf (11,311'-17,537') 33 Stages
2/28/2016 flowback

Well is producing.

NM OIL CONSERVATION
ARTESIA DISTRICT

APR 25 2016

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14. I hereby certify that the foregoing is true and correct. Electronic Submission #336948 verified by the BLM Well Information System For RKI EXPLORATION & PROD LLC, sent to the Carlsbad Committed to AFMSS for processing by JENNIFER SANCHEZ on 04/20/2016 (16CRW0026SE)	
Name (Printed/Typed) HEATHER BREHM	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 04/19/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED	(BLM Approver Not Specified)	Date 04/20/2016
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 **

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-102

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (505) 591-6161 Fax: (505) 591-6720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (505) 746-1283 Fax: (505) 746-4920

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) 476-3460 Fax: (505) 476-3462

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

APR 25 2016

Revised August 1, 2011

Submit one copy to appropriate
District Office

RECEIVED

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

AS DRILLED

API Number 30-015-43294	Pool Code 84330	Pool Name ROSS DRAW; WOLF CAMP
Property Code 40485	Property Name RDX FEDERAL COM 28	Well Number 9H
OGRID No. 246289	Operator Name RKI EXPLORATION & PRODUCTION	Elevation 3013'

Surface Location

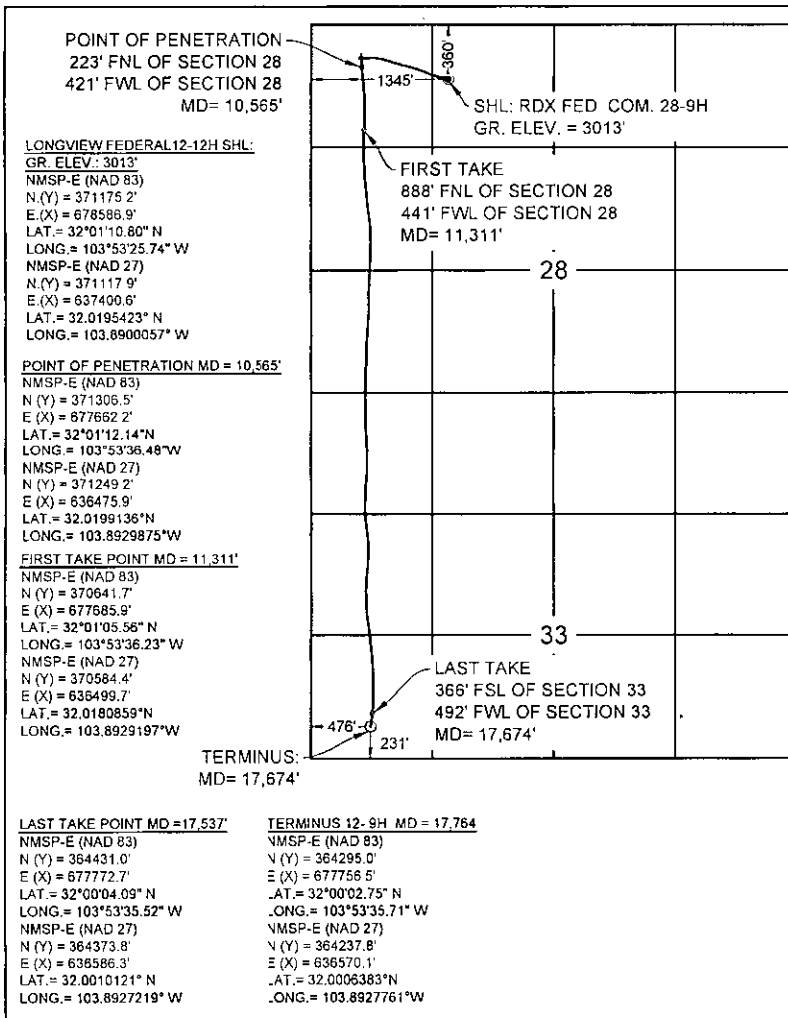
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	28	26 S	30 E		360	NORTH	1345	WEST	EDDY

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
4	33	26 S	30 E		231	SOUTH	476	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidated Code	Order No.
224.8			

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.



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 voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Heather Brehm 4.20.16
Signature Date

Heather Brehm

Print Name

heather.brehm@wpenergy.com

E-mail Address

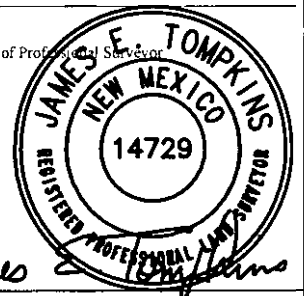
SURVEYORS CERTIFICATION

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.

MARCH 23, 2016

Date of Survey

Signature and Seal of Professional Surveyor



Job No. WTC51098

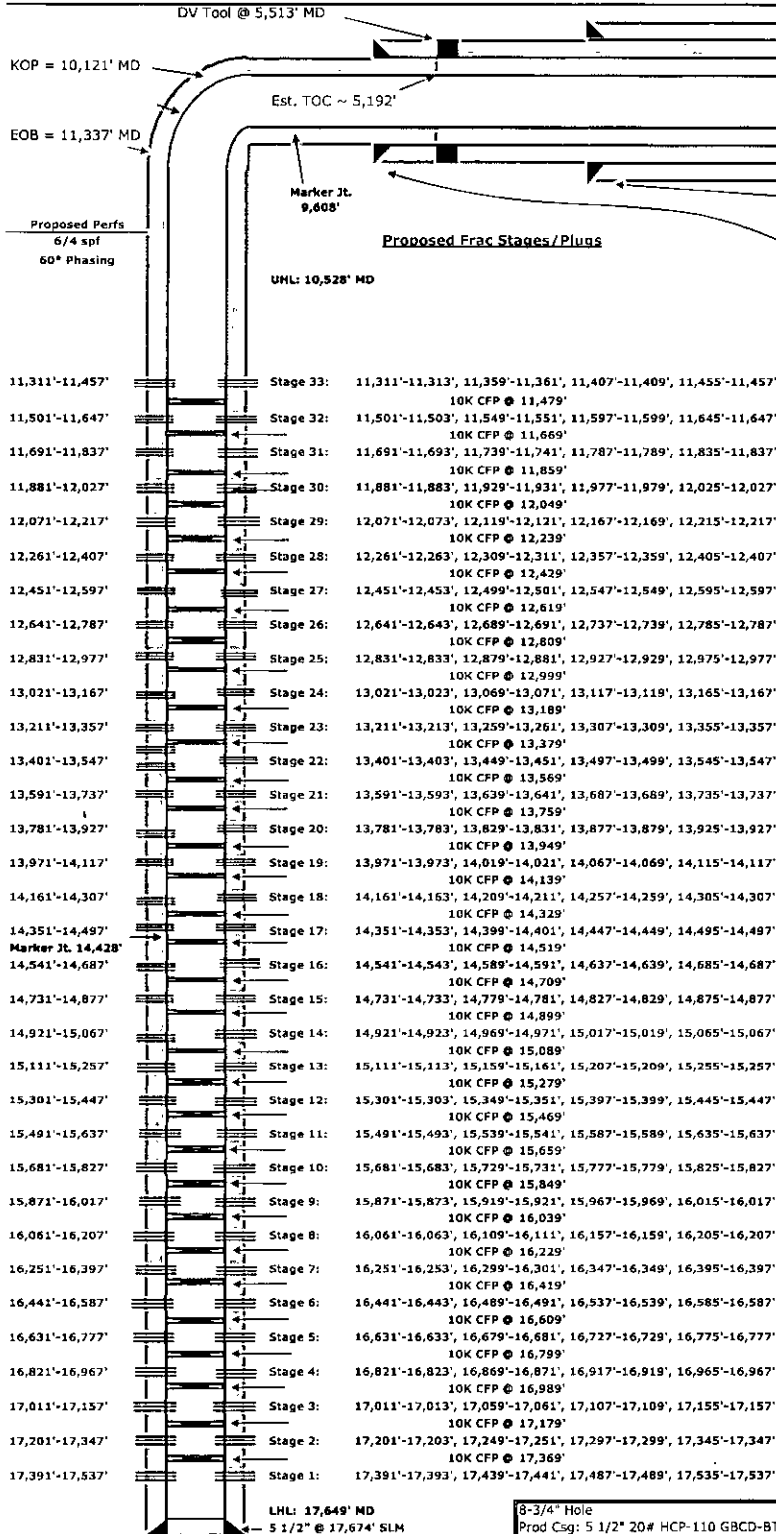
JAMES E. TOMPKINS 14729

Certificate Number



RDX Fed Com 28-9H
Wellbore Diagram
Wolfcamp Shale
Eddy County, New Mexico
API # 30-015-43294

Wolfcamp Proposed Perf/Frac: 2/15/16



SHL: 360' FNL & 1,345' FWL of Sec 28, T26S, R30E
BHL: 230' FSL & 430' FWL of Sec 33, T26S, R30E
KB elev = 3,037'
GL elev = 3,013'
KB-GL = 24'
SPUD: 11/16/15
TD: 12/25/15

17-1/2" Hole
Surface Casing: 13 3/8" 54.5# J-55 STC: 0' - 709'
CMT: Lead 805sks @ 13.5 ppg, Tail 200 sks @ 14.8 ppg.
Bumped plug, floats held, 200 bbls to surf.

12-1/4" Hole
INT CSG: 9-5/8" 40# HCL-80 LTC: 0' - 8,234'.
CMT: 1st Stage CMT: 925 sks @ 13.0 ppg, bumped plug, floats held. No returns during cement job.
2nd Stage Lead: 1,600 sks @ 11.6 ppg, Tail: 175 sks @ 14.8 ppg. Bumped plug, floats held, no returns, 5,980' TOC
Performed sqz cmt job @ 8,257', 2,750 sks @ 12.9 ppg.

Proppant Totals/Stage	
20,000#	100 Mesh Sand
114,000#	40/70 White Sand
103,000#	20/40 White Sand
63,000#	20/40 CRC

8-3/4" Hole
Prod Csg: 5 1/2" 20# HCP-110 GBCCD-BTC: 0' - 17,674'
CMT: Lead 625 sks @ 13.0 ppg, Tail 1,415 sks @ 13.0 ppg, bump plug, floats held. Est TOC ~ 5,192' per Renegade CBL dated 1/29/15

TD = 17,674' MD
PBTD = 17,587' MD (FC, SLM)
Avg TVD Lat = 10,712'
Lat. Length = 6,250'
BHT 192°F (Est)

TVD @ Heel = 10,715'
TVD @ Toe = 10,709'



Company: RKI Exploration & Production, LLC
Well: RDX Federal COM 28 9H
Location: Eddy County, NM
Rig: H&P 499

Job Number: 7561204
Magnetic Decl.: 7.39 E
Grid Corr.: 0.23 E
Total Grid Corr.: 7.16 E

Calculation Method Minimum Curvature
Proposed Azimuth 179.68
Depth Reference Drill Floor
Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates			Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
Tie In Coordinates															
Tie On	0	0.0	0.0			0	0	0 S		0 W					
MWD	25	0.00	0.00	N 0.0 E	25	25.00	0.00	0.00 N		0.00 E	0.00	0.00	0.00	0.00	0.00
MWD	173	0.15	116.20	S 63.8 E	148	173.00	0.09	-0.09 S		0.17 E	0.19	116.20	0.10	0.10	78.51
MWD	263	0.22	113.64	S 66.4 E	90	263.00	0.21	-0.21 S		0.44 E	0.48	115.29	0.08	0.08	-2.84
MWD	353	0.25	113.88	S 66.1 E	90	353.00	0.36	-0.36 S		0.78 E	0.85	114.63	0.03	0.03	0.27
MWD	443	0.47	110.59	S 69.4 E	90	443.00	0.57	-0.56 S		1.30 E	1.42	113.48	0.25	0.24	-3.66
MWD	539	0.36	105.97	S 74.0 E	96	538.99	0.80	-0.79 S		1.96 E	2.11	111.87	0.12	-0.11	-4.81
MWD	626	0.42	118.80	S 61.2 E	87	625.99	1.03	-1.02 S		2.50 E	2.70	112.09	0.12	0.07	14.75
MWD	750	0.23	237.45	S 57.5 W	124	749.99	1.38	-1.37 S		2.69 E	3.02	116.96	0.46	-0.15	95.69
MWD	840	0.26	262.03	S 82.0 W	90	839.99	1.51	-1.49 S		2.34 E	2.77	122.60	0.12	0.03	27.31
MWD	930	0.27	322.51	N 37.5 W	90	929.99	1.36	-1.35 S		2.00 E	2.42	124.03	0.30	0.01	67.20
MWD	1020	0.15	14.78	N 14.8 E	90	1019.99	1.08	-1.07 S		1.91 E	2.19	119.35	0.24	-0.13	58.08
MWD	1111	0.29	33.08	N 33.1 E	91	1110.99	0.77	-0.76 S		2.06 E	2.20	110.32	0.17	0.15	20.11
MWD	1202	0.50	11.95	N 12.0 E	91	1201.99	0.19	-0.18 S		2.27 E	2.28	94.58	0.28	0.23	-23.22
MWD	1293	0.49	16.65	N 16.7 E	91	1292.98	-0.57	0.58 N		2.46 E	2.53	76.76	0.05	-0.01	5.16
MWD	1386	0.31	16.20	N 16.2 E	93	1385.98	-1.19	1.20 N		2.65 E	2.91	65.58	0.19	-0.19	-0.48
MWD	1477	0.13	53.04	N 53.0 E	91	1476.98	-1.48	1.50 N		2.80 E	3.18	61.80	0.24	-0.20	40.48
MWD	1568	0.10	180.61	S 0.6 W	91	1567.98	-1.47	1.48 N		2.88 E	3.24	62.75	0.23	-0.03	140.19
MWD	1660	0.28	199.04	S 19.0 W	92	1659.98	-1.17	1.19 N		2.81 E	3.05	67.01	0.20	0.20	20.03
MWD	1751	0.44	181.33	S 1.3 W	91	1750.98	-0.62	0.63 N		2.72 E	2.80	76.97	0.21	0.18	-19.46
MWD	1842	0.85	166.95	S 13.1 E	91	1841.97	0.39	-0.38 S		2.87 E	2.89	97.47	0.48	0.45	-15.80
MWD	1935	1.18	171.23	S 8.8 E	93	1934.96	2.01	-1.99 S		3.17 E	3.75	122.17	0.36	0.35	4.60
MWD	2029	1.25	221.20	S 41.2 W	94	2028.94	3.74	-3.72 S		2.64 E	4.57	144.62	1.09	0.07	53.16
MWD	2122	2.00	250.27	S 70.3 W	93	2121.90	5.04	-5.03 S		0.45 E	5.05	174.92	1.17	0.81	31.26
MWD	2216	2.63	268.87	S 88.9 W	94	2215.82	5.61	-5.63 S		-3.25 W	6.50	210.02	1.03	0.67	19.79
MWD	2309	3.80	278.30	N 81.7 W	93	2308.68	5.18	-5.23 S		-8.44 W	9.92	238.22	1.38	1.26	10.14
MWD	2403	4.66	282.79	N 77.2 W	94	2402.42	3.85	-3.93 S		-15.24 W	15.74	255.53	0.98	0.91	4.78
MWD	2497	5.21	293.89	N 66.1 W	94	2496.07	1.23	-1.36 S		-22.87 W	22.91	266.60	1.17	0.59	11.81
MWD	2591	6.03	294.29	N 65.7 W	94	2589.62	-2.58	2.40 N		-31.27 W	31.36	274.39	0.87	0.87	0.43
MWD	2685	7.31	289.55	N 70.5 W	94	2682.98	-6.66	6.43 N		-41.41 W	41.90	278.83	1.48	1.36	-5.04
MWD	2780	7.92	286.35	N 73.7 W	95	2777.15	-10.60	10.30 N		-53.38 W	54.37	280.92	0.78	0.64	-3.37
MWD	2874	9.35	285.19	N 74.8 W	94	2870.08	-14.50	14.12 N		-66.97 W	68.44	281.91	1.53	1.52	-1.23
MWD	2968	9.45	285.38	N 74.6 W	94	2962.82	-18.63	18.17 N		-81.78 W	83.77	282.53	0.11	0.11	0.20
MWD	3062	8.72	281.58	N 78.4 W	94	3055.64	-22.18	21.65 N		-96.20 W	98.60	282.68	1.00	-0.78	-4.04



Company: RKL Exploration & Production, LLC
Well: RDX Federal COM 28 9H
Location: Eddy County, NM
Rig: H&P 499

Job Number: 7561204
Magnetic Decl.: 7.39 E
Grid Corr.: 0.23 E
Total Grid Corr.: 7.16 E

Calculation Method Minimum Curvature
Proposed Azimuth 179.68
Depth Reference Drill Floor
Tie Info: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)	E/W (ft)	Closure Distance (ft)	Angle (deg)	Dogleg Severity (d/100)	Build Rate (d/100)	Walk Rate (d/100)
MWD	3156	10.25	286.62	N 73.4 W	94	3148.35	-26.09	25.47 N	-111.19 W	114.07	282.90	1.85	1.63	5.36
MWD	3250	11.07	288.79	N 71.2 W	94	3240.73	-31.48	30.77 N	-127.75 W	131.40	283.54	0.97	0.87	2.31
MWD	3344	9.99	286.73	N 73.3 W	94	3333.14	-36.83	36.02 N	-144.10 W	148.54	284.04	1.22	-1.15	-2.19
MWD	3437	9.98	287.05	N 73.0 W	93	3424.74	-41.60	40.71 N	-159.53 W	164.64	284.31	0.06	-0.01	0.34
MWD	3532	10.89	288.45	N 71.6 W	95	3518.16	-46.94	45.96 N	-175.92 W	181.82	284.64	0.99	0.96	1.47
MWD	3626	11.43	291.42	N 68.6 W	94	3610.39	-53.25	52.17 N	-193.07 W	199.94	285.13	0.84	0.57	3.16
MWD	3721	11.01	291.55	N 68.5 W	95	3703.57	-60.12	58.94 N	-210.21 W	218.32	285.66	0.44	-0.44	0.14
MWD	3815	10.87	291.63	N 68.4 W	94	3795.86	-66.77	65.51 N	-226.80 W	236.07	286.11	0.15	-0.15	0.09
MWD	3909	10.04	291.64	N 68.4 W	94	3888.30	-73.15	71.80 N	-242.65 W	253.05	286.48	0.88	-0.88	0.01
MWD	4003	9.07	290.29	N 69.7 W	94	3981.00	-78.82	77.39 N	-257.22 W	268.61	286.74	1.06	-1.03	-1.44
MWD	4097	9.46	290.28	N 69.7 W	94	4073.77	-84.15	82.63 N	-271.42 W	283.72	286.93	0.41	0.41	-0.01
MWD	4190	10.06	291.72	N 68.3 W	93	4165.42	-89.89	88.29 N	-286.13 W	299.44	287.15	0.70	0.65	1.55
MWD	4284	9.73	290.67	N 69.3 W	94	4258.02	-95.81	94.13 N	-301.19 W	315.56	287.36	0.40	-0.35	-1.12
MWD	4378	9.03	288.94	N 71.1 W	94	4350.77	-101.09	99.33 N	-315.60 W	330.86	287.47	0.80	-0.74	-1.84
MWD	4471	9.41	289.65	N 70.4 W	93	4442.57	-106.09	104.25 N	-329.66 W	345.75	287.55	0.43	0.41	0.76
MWD	4564	9.80	288.17	N 71.8 W	93	4534.26	-111.20	109.28 N	-344.34 W	361.27	287.61	0.50	0.42	-1.59
MWD	4658	9.34	286.75	N 73.3 W	94	4626.95	-115.98	113.97 N	-359.25 W	376.89	287.60	0.55	-0.49	-1.51
MWD	4752	9.41	286.42	N 73.6 W	94	4719.70	-120.43	118.34 N	-373.92 W	392.20	287.56	0.09	0.07	-0.35
MWD	4846	10.09	283.66	N 76.3 W	94	4812.34	-124.63	122.46 N	-389.29 W	408.10	287.46	0.88	0.72	-2.94
MWD	4939	9.59	285.31	N 74.7 W	93	4903.97	-128.69	126.43 N	-404.68 W	423.97	287.35	0.62	-0.54	1.77
MWD	5033	9.98	287.06	N 72.9 W	94	4996.60	-133.23	130.89 N	-420.02 W	439.94	287.31	0.52	0.41	1.86
MWD	5127	10.16	287.08	N 72.9 W	94	5089.16	-138.14	135.71 N	-435.73 W	456.38	287.30	0.19	0.19	0.02
MWD	5221	9.46	284.76	N 75.2 W	94	5181.78	-142.63	140.11 N	-451.13 W	472.39	287.25	0.86	-0.74	-2.47
MWD	5314	9.35	283.46	N 76.5 W	93	5273.53	-146.42	143.82 N	-465.87 W	487.56	287.16	0.26	-0.12	-1.40
MWD	5408	9.79	282.19	N 77.8 W	94	5366.22	-149.97	147.28 N	-481.10 W	503.14	287.02	0.52	0.47	-1.35
MWD	5502	9.25	283.43	N 76.6 W	94	5458.93	-153.50	150.73 N	-496.26 W	518.65	286.89	0.61	-0.57	1.32
MWD	5596	9.51	288.03	N 72.0 W	94	5551.67	-157.74	154.88 N	-511.00 W	533.95	286.86	0.84	0.28	4.89
MWD	5689	9.16	286.35	N 73.7 W	93	5643.44	-162.28	159.35 N	-525.41 W	549.04	286.87	0.48	-0.38	-1.81
MWD	5783	9.57	286.76	N 73.2 W	94	5736.19	-166.72	163.71 N	-540.07 W	564.33	286.86	0.44	0.44	0.44
MWD	5876	9.78	286.90	N 73.1 W	93	5827.87	-171.33	168.23 N	-555.03 W	579.96	286.86	0.23	0.23	0.15
MWD	5970	10.04	285.46	N 74.5 W	94	5920.46	-175.92	172.74 N	-570.56 W	596.14	286.84	0.38	0.28	-1.53
MWD	6064	9.83	287.70	N 72.3 W	94	6013.05	-180.63	177.36 N	-586.11 W	612.35	286.84	0.47	-0.22	2.38
MWD	6157	9.68	288.32	N 71.7 W	93	6104.71	-185.59	182.23 N	-601.09 W	628.11	286.87	0.20	-0.16	0.67
MWD	6251	10.68	288.86	N 71.1 W	94	6197.23	-190.97	187.53 N	-616.84 W	644.71	286.91	1.07	1.06	0.57
MWD	6345	10.62	288.00	N 72.0 W	94	6289.61	-196.56	193.02 N	-633.32 W	662.08	286.95	0.18	-0.06	-0.91



Company: RKI Exploration & Production, LLC
Well: RDX Federal COM 28 9H
Location: Eddy County, NM
Rig: H&P 499

Job Number: 7561204
Magnetic Decl.: 7.39 E
Grid Corr.: 0.23 E
Total Grid Corr.: 7.16 E

Calculation Method Minimum Curvature
Proposed Azimuth 179.68
Depth Reference Drill Floor
Tie Info: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
								N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
MWD	6440	10.29	286.32	N 73.7 W	95	6383.03	-201.74	198.11 N	-649.78 W	679.32	286.96	0.47	-0.35	-1.77
MWD	6534	9.65	283.99	N 76.0 W	94	6475.61	-206.09	202.38 N	-665.49 W	695.58	286.91	0.80	-0.68	-2.48
MWD	6628	10.13	285.54	N 74.5 W	94	6568.21	-210.30	206.50 N	-681.10 W	711.71	286.87	0.58	0.51	1.65
MWD	6722	10.25	284.13	N 75.9 W	94	6660.73	-214.64	210.75 N	-697.17 W	728.33	286.82	0.29	0.13	-1.50
MWD	6816	9.47	281.13	N 78.9 W	94	6753.34	-218.27	214.29 N	-712.87 W	744.38	286.73	0.99	-0.83	-3.19
MWD	6910	8.44	279.90	N 80.1 W	94	6846.20	-221.02	216.97 N	-727.25 W	758.93	286.61	1.11	-1.10	-1.31
MWD	7004	8.79	281.47	N 78.5 W	94	6939.14	-223.72	219.58 N	-741.09 W	772.93	286.50	0.45	0.37	1.67
MWD	7097	8.91	281.73	N 78.3 W	93	7031.03	-226.67	222.46 N	-755.10 W	787.19	286.42	0.14	0.13	0.28
MWD	7191	8.49	280.21	N 79.8 W	94	7123.95	-229.46	225.17 N	-769.06 W	801.34	286.32	0.51	-0.45	-1.62
MWD	7285	7.72	276.69	N 83.3 W	94	7217.01	-231.50	227.13 N	-782.16 W	814.47	286.19	0.97	-0.82	-3.74
MWD	7379	7.46	272.91	N 87.1 W	94	7310.18	-232.61	228.18 N	-794.52 W	826.64	286.02	0.60	-0.28	-4.02
MWD	7472	7.53	267.65	S 87.7 W	93	7402.39	-232.74	228.24 N	-806.64 W	838.31	285.80	0.74	0.08	-5.66
MWD	7567	7.71	266.15	S 86.2 W	95	7496.55	-232.12	227.55 N	-819.22 W	850.24	285.52	0.28	0.19	-1.58
MWD	7660	7.61	266.06	S 86.1 W	93	7588.72	-231.35	226.71 N	-831.59 W	861.94	285.25	0.11	-0.11	-0.10
MWD	7754	7.55	266.65	S 86.7 W	94	7681.90	-230.63	225.92 N	-843.96 W	873.68	284.99	0.10	-0.06	0.63
MWD	7848	7.72	269.39	S 89.4 W	94	7775.07	-230.27	225.49 N	-856.44 W	885.63	284.75	0.43	0.18	2.91
MWD	7941	8.14	269.01	S 89.0 W	93	7867.18	-230.16	225.31 N	-869.27 W	898.00	284.53	0.46	0.45	-0.41
MWD	8035	8.39	267.99	S 88.0 W	94	7960.20	-229.88	224.96 N	-882.78 W	910.99	284.30	0.31	0.27	-1.09
MWD	8129	8.69	266.22	S 86.2 W	94	8053.16	-229.25	224.25 N	-896.72 W	924.33	284.04	0.42	0.32	-1.88
MWD	8190	8.75	263.47	S 83.5 W	61	8113.46	-228.47	223.42 N	-905.92 W	933.07	283.85	0.69	0.10	-4.51
MWD	8268	9.15	264.30	S 84.3 W	78	8190.51	-227.25	222.13 N	-917.99 W	944.48	283.60	0.54	0.51	1.06
MWD	8362	7.15	265.82	S 85.8 W	94	8283.55	-226.16	220.96 N	-931.26 W	957.12	283.35	2.14	-2.13	1.62
MWD	8455	4.87	266.82	S 86.8 W	93	8376.03	-225.57	220.32 N	-940.98 W	966.43	283.18	2.45	-2.45	1.08
MWD	8550	2.75	275.02	N 85.0 W	95	8470.82	-225.58	220.29 N	-947.27 W	972.55	283.09	2.30	-2.23	8.63
MWD	8644	3.84	325.97	N 34.0 W	94	8564.68	-228.41	223.10 N	-951.28 W	977.09	283.20	3.19	1.16	54.20
MWD	8738	2.81	14.93	N 14.9 E	94	8658.54	-233.25	227.94 N	-952.45 W	979.35	283.46	3.10	-1.10	52.09
MWD	8832	3.49	58.92	N 58.9 E	94	8752.41	-236.94	231.64 N	-949.41 W	977.26	283.71	2.60	0.72	46.80
MWD	8926	2.97	49.79	N 49.8 E	94	8846.26	-239.96	234.69 N	-945.10 W	973.80	283.95	0.78	-0.55	-9.71
MWD	9020	2.89	64.85	N 64.9 E	94	8940.14	-242.52	237.27 N	-941.09 W	970.54	284.15	0.82	-0.09	16.02
MWD	9114	2.73	54.45	N 54.5 E	94	9034.03	-244.81	239.58 N	-937.13 W	967.27	284.34	0.57	-0.17	-11.06
MWD	9208	2.87	37.77	N 37.8 E	94	9127.92	-247.95	242.74 N	-933.86 W	964.89	284.57	0.88	0.15	-17.74
MWD	9302	2.29	39.18	N 39.2 E	94	9221.82	-251.25	246.05 N	-931.24 W	963.19	284.80	0.62	-0.62	1.50
MWD	9397	2.37	13.50	N 13.5 E	95	9316.74	-254.62	249.44 N	-929.58 W	962.46	285.02	1.09	0.08	-27.03
MWD	9491	2.16	358.41	N 1.6 W	94	9410.67	-258.28	253.10 N	-929.17 W	963.03	285.24	0.67	-0.22	-16.05
MWD	9585	2.50	346.88	N 13.1 W	94	9504.59	-262.05	256.86 N	-929.69 W	964.52	285.44	0.61	0.36	-12.27



Company: RKI Exploration & Production, LLC
Well: RDX Federal COM 28 9H
Location: Eddy County, NM
Rig: H&P 499

Job Number: 7561204
Magnetic Decl.: 7.39 E
Grid Corr.: 0.23 E
Total Grid Corr.: 7.16 E

Calculation Method Minimum Curvature
Proposed Azimuth 179.68
Depth Reference Drill Floor
Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)	E/W (ft)	Closure Distance (ft)	Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
MWD	9679	2.27	5.29	N 5.3 E	94	9598.51	-265.90	260.71 N	-929.98 W	965.83	285.66	0.85	-0.24	19.59
MWD	9772	1.86	14.29	N 14.3 E	93	9691.45	-269.20	264.01 N	-929.44 W	966.21	285.86	0.56	-0.44	9.68
MWD	9866	1.49	2.05	N 2.1 E	94	9785.41	-271.89	266.71 N	-929.02 W	966.55	286.02	0.55	-0.39	-13.02
MWD	9960	1.36	355.13	N 4.9 W	94	9879.39	-274.23	269.04 N	-929.07 W	967.24	286.15	0.23	-0.14	-7.36
MWD	10052	1.25	345.45	N 14.6 W	92	9971.36	-276.29	271.10 N	-929.41 W	968.15	286.26	0.27	-0.12	-10.52
MWD	10121	0.60	313.62	N 46.4 W	69	10040.35	-277.27	272.08 N	-929.87 W	968.85	286.31	1.17	-0.94	-382.66
MWD	10153	1.75	191.17	S 11.2 W	32	10072.35	-276.91	271.72 N	-930.08 W	968.96	286.29	6.67	3.59	-382.66
MWD	10184	4.71	180.91	S 0.9 W	31	10103.30	-275.17	269.98 N	-930.19 W	968.58	286.18	9.69	9.55	-33.10
MWD	10215	7.45	180.73	S 0.7 W	31	10134.12	-271.89	266.70 N	-930.24 W	967.71	286.00	8.84	8.84	-0.58
MWD	10246	9.77	178.95	S 1.1 E	31	10164.77	-267.25	262.06 N	-930.22 W	966.42	285.73	7.53	7.48	-5.74
MWD	10278	12.16	177.26	S 2.7 E	32	10196.18	-261.16	255.97 N	-930.01 W	964.59	285.39	7.54	7.47	-5.28
MWD	10309	14.75	177.73	S 2.3 E	31	10226.33	-253.96	248.77 N	-929.69 W	962.40	284.98	8.36	8.35	-1.52
MWD	10340	17.69	177.43	S 2.6 E	31	10256.09	-245.30	240.12 N	-929.33 W	959.84	284.49	9.49	9.48	-0.97
MWD	10371	20.56	178.09	S 1.9 E	31	10285.38	-235.15	229.97 N	-928.93 W	956.98	283.90	9.28	9.26	2.13
MWD	10403	23.76	178.85	S 1.2 E	32	10315.01	-223.09	217.91 N	-928.62 W	953.84	283.21	10.04	10.00	2.37
MWD	10434	26.82	179.01	S 1.0 E	31	10343.03	-209.85	204.67 N	-928.37 W	950.66	282.43	9.87	9.87	0.52
MWD	10465	30.33	178.06	S 1.9 E	31	10370.25	-195.03	189.85 N	-927.98 W	947.20	281.56	11.42	11.32	-3.06
MWD	10496	33.73	177.15	S 2.8 E	31	10396.53	-178.60	173.42 N	-927.29 W	943.37	280.59	11.08	10.97	-2.94
MWD	10528	37.26	177.04	S 3.0 E	32	10422.58	-160.04	154.87 N	-926.35 W	939.20	279.49	11.03	11.03	-0.34
MWD	10559	40.97	175.76	S 4.2 E	31	10446.63	-140.52	135.36 N	-925.11 W	934.96	278.32	12.25	11.97	-4.13
MWD	10590	44.55	175.23	S 4.8 E	31	10469.38	-119.53	114.38 N	-923.46 W	930.51	277.06	11.61	11.55	-1.71
MWD	10621	45.21	175.05	S 4.9 E	31	10491.35	-97.73	92.58 N	-921.60 W	926.24	275.74	2.17	2.13	-0.58
MWD	10653	45.24	174.79	S 5.2 E	32	10513.89	-75.09	69.96 N	-919.59 W	922.25	274.35	0.58	0.09	-0.81
MWD	10684	46.67	173.88	S 6.1 E	31	10535.44	-52.91	47.78 N	-917.39 W	918.63	272.98	5.07	4.61	-2.94
MWD	10715	49.73	174.31	S 5.7 E	31	10556.10	-29.91	24.80 N	-915.01 W	915.35	271.55	9.92	9.87	1.39
MWD	10746	52.46	174.28	S 5.7 E	31	10575.57	-5.89	0.80 N	-912.62 W	912.62	270.05	8.81	8.81	-0.10
MWD	10777	55.17	173.82	S 6.2 E	31	10593.87	19.00	-24.09 S	-910.02 W	910.34	268.48	8.82	8.74	-1.48
MWD	10809	58.42	173.95	S 6.1 E	32	10611.39	45.64	-50.71 S	-907.17 W	908.59	266.80	10.16	10.16	0.41
MWD	10840	61.35	174.43	S 5.6 E	31	10626.94	72.33	-77.38 S	-904.46 W	907.76	265.11	9.55	9.45	1.55
MWD	10871	63.88	175.30	S 4.7 E	31	10641.20	99.75	-104.79 S	-902.00 W	908.06	263.37	8.53	8.16	2.81
MWD	10903	66.79	175.67	S 4.3 E	32	10654.55	128.75	-133.78 S	-899.71 W	909.60	261.54	9.15	9.09	1.16
MWD	10934	69.53	177.09	S 2.9 E	31	10666.09	157.48	-162.50 S	-897.90 W	912.48	259.74	9.81	8.84	4.58
MWD	10966	72.08	178.37	S 1.6 E	32	10676.61	187.68	-192.69 S	-896.70 W	917.17	257.87	8.82	7.97	4.00
MWD	10997	74.04	179.27	S 0.7 E	31	10685.64	217.33	-222.34 S	-896.09 W	923.26	256.07	6.91	6.32	2.90
MWD	11028	76.41	179.50	S 0.5 E	31	10693.54	247.30	-252.31 S	-895.77 W	930.63	254.27	7.68	7.65	0.74



Company: RKI Exploration & Production, LLC
Well: RDX Federal COM 28 9H
Location: Eddy County, NM
Rig: H&P 499

Job Number: 7561204
Magnetic Decl.: 7.39 E
Grid Corr.: 0.23 E
Total Grid Corr.: 7.16 E

Calculation Method Minimum Curvature
Proposed Azimuth 179.68
Depth Reference Drill Floor
Tie Info: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure Distance (ft)	Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
								N/S (ft)	E/W (ft)					
MWD	11060	78.62	179.85	S 0.2 E	32	10700.46	278.54	-283.55 S	-895.59 W	939.41	252.43	6.99	6.91	1.09
MWD	11091	81.35	180.99	S 1.0 W	31	10705.85	309.06	-314.07 S	-895.82 W	949.28	250.68	9.52	8.81	3.68
MWD	11122	83.33	180.62	S 0.6 W	31	10709.98	339.78	-344.79 S	-896.25 W	960.28	248.96	6.50	6.39	-1.19
MWD	11154	85.93	181.12	S 1.1 W	32	10712.98	371.63	-376.64 S	-896.73 W	972.62	247.22	8.27	8.13	1.56
MWD	11181	88.92	181.10	S 1.1 W	27	10714.19	398.59	-403.61 S	-897.26 W	983.85	245.78	11.07	11.07	-0.07
MWD	11243	89.69	182.12	S 2.1 W	62	10714.94	460.55	-465.58 S	-899.00 W	1012.40	242.62	2.06	1.24	1.65
MWD	11337	89.75	181.34	S 1.3 W	94	10715.40	554.49	-559.53 S	-901.84 W	1061.31	238.18	0.83	0.06	-0.83
MWD	11432	90.18	181.34	S 1.3 W	95	10715.46	649.45	-654.51 S	-904.06 W	1116.11	234.10	0.45	0.45	0.00
MWD	11526	90.31	179.28	S 0.7 E	94	10715.06	743.44	-748.50 S	-904.57 W	1174.09	230.39	2.20	0.14	-2.19
MWD	11620	90.43	177.93	S 2.1 E	94	10714.45	837.42	-842.47 S	-902.28 W	1234.45	226.96	1.44	0.13	-1.44
MWD	11714	88.28	177.25	S 2.8 E	94	10715.51	931.34	-936.37 S	-898.33 W	1297.61	223.81	2.40	-2.29	-0.72
MWD	11808	89.91	175.08	89.9	94	10716.99	1025.14	-1030.14 S	-892.04 W	1362.69	220.89	2.89	1.73	-2.31
MWD	11902	90.06	174.61	S 5.4 E	94	10717.02	1118.81	-1123.76 S	-883.59 W	1429.54	218.18	0.52	0.16	-0.50
MWD	11995	90.18	174.94	S 5.1 E	93	10716.82	1211.47	-1216.37 S	-875.12 W	1488.47	215.73	0.38	0.13	0.35
MWD	12088	89.48	173.28	S 6.7 E	93	10717.10	1304.02	-1308.88 S	-865.58 W	1569.20	213.48	1.94	-0.75	-1.78
MWD	12183	90.18	172.64	S 7.4 E	95	10717.38	1398.37	-1403.16 S	-853.94 W	1642.58	211.32	1.00	0.74	-0.67
MWD	12276	88.86	172.66	S 7.3 E	93	10718.16	1490.67	-1495.39 S	-842.04 W	1716.17	209.38	1.42	-1.42	0.02
MWD	12370	90.62	175.04	S 5.0 E	94	10718.59	1584.17	-1588.84 S	-831.97 W	1793.49	207.64	3.15	1.87	2.53
MWD	12464	91.42	181.32	S 1.3 W	94	10716.91	1678.07	-1682.73 S	-828.99 W	1875.85	206.23	6.73	0.85	6.68
MWD	12557	91.48	180.63	S 0.6 W	93	10714.56	1771.02	-1775.69 S	-830.57 W	1960.33	205.07	0.74	0.06	-0.74
MWD	12651	90.06	183.01	S 3.0 W	94	10713.30	1864.94	-1869.62 S	-833.56 W	2047.02	204.03	2.95	-1.51	2.53
MWD	12745	90.59	184.58	S 4.6 W	94	10712.76	1958.69	-1963.41 S	-839.78 W	2135.46	203.16	1.76	0.56	1.67
MWD	12839	90.62	181.89	S 1.9 W	94	10711.77	2052.49	-2057.25 S	-845.08 W	2224.06	202.33	2.86	0.03	-2.86
MWD	12933	90.71	181.83	S 1.8 W	94	10710.68	2146.42	-2151.19 S	-848.13 W	2312.35	201.52	0.12	0.10	-0.06
MWD	13026	90.80	181.54	S 1.5 W	93	10709.45	2239.35	-2244.14 S	-850.87 W	2400.03	200.76	0.33	0.10	-0.31
MWD	13119	90.09	179.56	S 0.4 E	93	10708.73	2332.34	-2337.13 S	-851.76 W	2487.50	200.02	2.26	-0.76	-2.13
MWD	13212	90.00	181.23	S 1.2 W	93	10708.66	2425.33	-2430.12 S	-852.40 W	2575.28	199.33	1.80	-0.10	1.80
MWD	13305	90.06	182.92	S 2.9 W	93	10708.61	2518.24	-2523.06 S	-855.77 W	2664.24	198.74	1.82	0.06	1.82
MWD	13399	90.09	185.44	S 5.4 W	94	10708.49	2611.94	-2616.80 S	-862.62 W	2755.31	198.24	2.68	0.03	2.68
MWD	13493	89.88	185.10	S 5.1 W	94	10708.51	2705.50	-2710.40 S	-871.25 W	2846.99	197.82	0.43	-0.22	-0.36
MWD	13587	89.63	180.92	S 0.9 W	94	10708.91	2799.32	-2804.25 S	-876.19 W	2937.95	197.35	4.45	-0.27	-4.45
MWD	13680	89.63	180.85	S 0.8 W	93	10709.51	2892.29	-2897.24 S	-877.62 W	3027.25	196.85	0.08	0.00	-0.08
MWD	13774	89.63	182.51	S 2.5 W	94	10710.12	2986.23	-2991.19 S	-880.38 W	3118.06	196.40	1.77	0.00	1.77
MWD	13867	90.06	182.19	S 2.2 W	93	10710.37	3079.13	-3084.12 S	-884.19 W	3208.36	196.00	0.58	0.46	-0.34
MWD	13961	90.52	180.72	S 0.7 W	94	10709.90	3173.08	-3178.08 S	-886.58 W	3299.43	195.59	1.64	0.49	-1.56

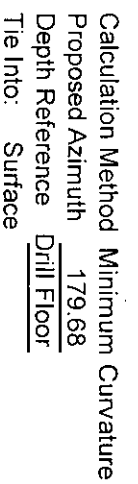


Company: RKI Exploration & Production, LLC
Well: RDX Federal COM 28 9H
Location: Eddy County, NM
Rig: H&P 499

Job Number: 7561204
Magnetic Decl.: 7.39 E
Grid Corr.: 0.23 E
Total Grid Corr.: 7.16 E

Calculation Method: Minimum Curvature
Proposed Azimuth: 179.68
Depth Reference: Drill Floor
Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	N/S (ft)	Coordinates E/W (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
MWD	14055	90.65	180.29	S 0.3 W	94	10708.94	3267.06	-3272.07 S	-887.41 W	3390.27	195.17	0.48	0.14	-0.46
MWD	14149	91.08	179.34	S 0.7 E	94	10707.52	3361.05	-3366.06 S	-887.10 W	3480.99	194.76	1.11	0.46	-1.01
MWD	14243	90.34	179.07	S 0.9 E	94	10706.35	3455.04	-3460.04 S	-885.80 W	3571.63	194.36	0.84	-0.79	-0.29
MWD	14336	90.03	179.89	S 0.1 E	93	10706.05	3548.04	-3553.04 S	-884.96 W	3661.59	193.99	0.94	-0.33	0.88
MWD	14431	90.03	177.68	S 2.3 E	95	10706.00	3643.02	-3648.01 S	-882.94 W	3753.34	193.61	2.33	0.00	-2.33
MWD	14525	89.91	177.46	S 2.5 E	94	10706.05	3736.96	-3741.93 S	-878.96 W	3843.77	193.22	0.27	-0.13	-0.23
MWD	14619	90.06	175.73	S 4.3 E	94	10706.08	3830.82	-3835.76 S	-873.37 W	3933.93	192.83	1.85	0.16	-1.84
MWD	14713	89.78	177.00	S 3.0 E	94	10706.21	3924.66	-3929.56 S	-867.41 W	4024.16	192.45	1.38	-0.30	1.35
MWD	14807	89.54	180.80	S 0.8 W	94	10706.77	4018.63	-4023.53 S	-865.61 W	4115.59	192.14	4.05	-0.26	4.04
MWD	14901	89.63	181.73	S 1.7 W	94	10707.45	4112.59	-4117.50 S	-867.68 W	4207.93	191.90	0.99	0.10	0.99
MWD	14994	89.97	186.16	S 6.2 W	93	10707.77	4205.31	-4210.26 S	-874.08 W	4300.03	191.73	4.78	0.37	4.76
MWD	15087	89.72	184.01	S 4.0 W	93	10708.02	4297.89	-4302.89 S	-882.32 W	4392.42	191.59	2.33	-0.27	-2.31
MWD	15180	89.66	182.53	S 2.5 W	93	10708.53	4390.70	-4395.73 S	-887.63 W	4484.45	191.42	1.59	-0.06	-1.59
MWD	15273	89.41	181.87	S 1.9 W	93	10709.28	4483.61	-4488.66 S	-891.20 W	4576.27	191.23	0.76	-0.27	-0.71
MWD	15366	89.57	176.71	S 3.3 E	93	10710.11	4576.57	-4581.62 S	-890.05 W	4667.27	190.99	5.55	0.17	-5.55
MWD	15459	89.82	174.63	S 5.4 E	93	10710.60	4669.34	-4674.34 S	-883.02 W	4757.02	190.70	2.25	0.27	-2.24
MWD	15552	89.72	172.41	S 7.6 E	93	10710.98	4761.80	-4766.74 S	-872.53 W	4845.94	190.37	2.39	-0.11	-2.39
MWD	15646	89.88	172.49	S 7.5 E	94	10711.31	4855.05	-4859.93 S	-860.18 W	4935.46	190.04	0.19	0.17	0.09
MWD	15739	89.88	177.69	S 2.3 E	93	10711.50	4947.72	-4952.55 S	-852.22 W	5025.34	189.76	5.59	0.00	5.59
MWD	15836	90.31	184.09	S 4.1 W	97	10711.34	5044.65	-5049.49 S	-853.73 W	5121.15	189.60	6.61	0.44	6.60
MWD	15930	89.48	184.15	S 4.2 W	94	10711.51	5138.36	-5143.25 S	-860.48 W	5214.73	189.50	0.89	-0.88	0.06
MWD	16024	89.75	185.68	S 5.7 W	94	10712.14	5231.97	-5236.90 S	-868.53 W	5308.43	189.42	1.65	0.29	1.63
MWD	16117	89.63	186.18	S 6.2 W	93	10712.65	5324.41	-5329.40 S	-878.14 W	5401.26	189.36	0.55	-0.13	0.54
MWD	16210	89.63	176.98	S 3.0 E	93	10713.25	5417.26	-5422.26 S	-880.70 W	5493.32	189.23	9.89	0.00	-9.89
MWD	16304	90.40	178.86	S 1.1 E	94	10713.22	5511.21	-5516.19 S	-877.29 W	5585.52	189.04	2.16	0.82	2.00
MWD	16397	89.17	176.93	S 3.1 E	93	10713.57	5604.16	-5609.12 S	-873.88 W	5676.79	188.86	2.46	-1.32	-2.08
MWD	16490	90.22	173.05	S 6.9 E	93	10714.07	5696.82	-5701.75 S	-865.76 W	5767.10	188.63	4.32	1.13	-4.17
MWD	16583	90.22	172.49	S 7.5 E	93	10713.71	5789.15	-5794.01 S	-854.05 W	5856.62	188.39	0.60	0.00	-0.60
MWD	16676	89.85	172.91	S 7.1 E	93	10713.65	5881.46	-5886.25 S	-842.24 W	5946.20	188.14	0.60	-0.40	0.45
MWD	16769	90.15	172.24	S 7.8 E	93	10713.65	5973.74	-5978.47 S	-830.22 W	6035.84	187.91	0.79	0.32	-0.72
MWD	16863	90.03	174.05	S 5.9 E	94	10713.51	6067.13	-6071.80 S	-819.00 W	6126.78	187.68	1.93	-0.13	1.93
MWD	16956	90.31	175.11	S 4.9 E	93	10713.23	6159.76	-6164.38 S	-810.21 W	6217.40	187.49	1.18	0.30	1.14
MWD	17049	90.52	178.47	S 1.5 E	93	10712.56	6252.63	-6257.22 S	-805.01 W	6308.79	187.33	3.62	0.23	3.61
MWD	17141	90.43	180.05	S 0.1 W	92	10711.79	6344.62	-6349.20 S	-803.82 W	6399.88	187.22	1.72	-0.10	1.72
MWD	17233	90.83	178.99	S 1.0 E	92	10710.78	6436.61	-6441.19 S	-803.05 W	6491.06	187.11	1.23	0.43	-1.15

[illegible]