

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

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
RDX FEDERAL 17 35H

2. Name of Operator

RKI EXPLORATION & PROD LLC

Contact: CRYSTAL FULTON

E-Mail: crystal.fulton@wpenergy.com

9. API Well No.
30-015-43884-00-X1

3a. Address

3500 ONE WILLIAMS CENTER MD 35
TULSA, OK 74172

3b. Phone No. (include area code)

Ph: 539-573-0218

10. Field and Pool or Exploratory Area
UNDESIGNATED

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

Sec 17 T26S R30E NWNW 150FNL 895FWL

11. County 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	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 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.

RKI is requesting to change the SHL from 150? FNL, 895? FWL to 200? FNL, 710? FWL. This change is based off the onsite results from February 7, 2017 with Jeff Robertson, NRS. The pad is already constructed and there will be no additional surface disturbance. Please see attached for updated plats and directional plan.

NEW OIL CONSERVATION
ARTESIA DISTRICT

MAY 08 2017

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Some Comments Apply.

Comments - Due Back - Prior - 2/16/2017

ok per BLM/BIA. No new location 4-24-2017

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

Electronic Submission #367483 verified by the BLM Well Information System

For RKI EXPLORATION & PROD LLC, sent to the Carlsbad

Committed to AFMSS for processing by PRISCILLA PEREZ on 02/24/2017 (17PP0225SE)

Name (Printed/Typed) CRYSTAL FULTON

Title PERMITTING TECH I

Signature (Electronic Submission)

Date 02/17/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <i>Crystal A. Fulton</i>	Title <i>per</i> FIELD MANAGER	Date <i>4/27/17</i>
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 FIELD OFFICE

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)

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

RuP 5-10-17

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 Road, 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, NM 87505

MAY 08 2017

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

RECEIVED

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name LOWER WOLFCAMP (GAS)
⁴ Property Code	⁵ Property Name RDX FEDERAL 17	⁶ Well Number 35H
⁷ OGRID No. 246289	⁸ Operator Name RKI EXPLORATION & PRODUCTION	⁹ Elevation 3071'

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
D	17	26 S	30 E		200	NORTH	710	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
M	17	26 S	30 E		230	SOUTH	330	WEST	EDDY

¹² Dedicated Acres 320.0	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.

¹⁶ FIRST TAKE POINT 330' FNL & 330' FWL NMSP-E (NAD83) N (Y) = 381789.5' E (X) = 872201.2' LAT. = 32°02'56.10"N. LONG. = 103°54'39.43"W. NMSP-E (NAD27) N (Y) = 381731.8' E (X) = 831015.6' LAT. = 32.0487904"N. LONG. = 103.9104728"W. LAST TAKE POINT 330' FSL & 330' FWL NMSP-E (NAD83) N (Y) = 377135.0' E (X) = 672213.4' LAT. = 32°02'10.04"N. LONG. = 103°54'39.50"W. NMSP-E (NAD27) N (Y) = 377077.5' E (X) = 631027.6' LAT. = 32.0358955"N. LONG. = 103.9104929"W. RDX FEDERAL 17-35H BHL NMSP-E (NAD83) N (Y) = 377035.0' E (X) = 672213.6' LAT. = 32°02'09.05"N. LONG. = 103°54'39.51"W. NMSP-E (NAD27) N (Y) = 376977.5' E (X) = 631027.8' LAT. = 32.0357207"N. LONG. = 103.9104934"W.	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 released 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. <i>Justin Barnore</i> 02/17/2017 Signature Date Justin Barnore Printed Name justin.barnore@wpenergy.com E-mail Address 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. 02-09-2017 Date of Survey Signature and Seal of Professional Surveyor: <i>Mark Dillon Harp</i> MARK DILLON HARP 23786 Certificate Number AI 2017020219
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COORDINATES

A.
NW COR SEC 17
NMSP-E (NAD83)
N (Y) = 382389.6'
E (X) = 687016.5'
LAT. = 32°03'01.43"N.
LONG. = 103°51'47.26"W.
NMSP-E (NAD27)
N (Y) = 382332.0'
E (X) = 645830.6'
LAT. = 32.0502719"N.
LONG. = 103.8626493"W.

B.
N 1/4 COR SEC 17
NMSP-E (NAD83)
N (Y) = 382410.0'
E (X) = 689671.6'
LAT. = 32°03'01.51"N.
LONG. = 103°51'16.41"W.
NMSP-E (NAD27)
N (Y) = 382352.4'
E (X) = 648485.6'
LAT. = 32.0502958"N.
LONG. = 103.8540799"W.

C.
NE COR SEC 17
NMSP-E (NAD83)
N (Y) = 382430.2'
E (X) = 692325.1'
LAT. = 32°03'01.60"N.
LONG. = 103°50'45.58"W.
NMSP-E (NAD27)
N (Y) = 382372.7'
E (X) = 651139.1'
LAT. = 32.0503188"N.
LONG. = 103.8455155"W.

D.
W 1/4 COR SEC 17
NMSP-E (NAD83)
N (Y) = 379732.6'
E (X) = 687023.9'
LAT. = 32°02'35.14"N.
LONG. = 103°51'47.31"W.
NMSP-E (NAD27)
N (Y) = 379675.1'
E (X) = 645838.0'
LAT. = 32.0429680"N.
LONG. = 103.8626629"W.

E.
E 1/4 COR SEC 17
NMSP-E (NAD83)
N (Y) = 379771.4'
E (X) = 692329.2'
LAT. = 32°02'35.29"N.
LONG. = 103°50'45.67"W.
NMSP-E (NAD27)
N (Y) = 379713.9'
E (X) = 651143.1'
LAT. = 32.0430100"N.
LONG. = 103.8455414"W.

F.
SW COR SEC 17
NMSP-E (NAD83)
N (Y) = 377075.3'
E (X) = 687030.3'
LAT. = 32°02'08.84"N.
LONG. = 103°51'47.37"W.
NMSP-E (NAD27)
N (Y) = 377017.8'
E (X) = 645844.3'
LAT. = 32.0356631"N.
LONG. = 103.8626800"W.

G.
S 1/4 COR SEC 17
NMSP-E (NAD83)
N (Y) = 377094.7'
E (X) = 689681.6'
LAT. = 32°02'08.91"N.
LONG. = 103°51'16.57"W.
NMSP-E (NAD27)
N (Y) = 377037.2'
E (X) = 648495.5'
LAT. = 32.0356844"N.
LONG. = 103.8541242"W.

H.
SE COR SEC 17
NMSP-E (NAD83)
N (Y) = 377112.6'
E (X) = 692333.3'
LAT. = 32°02'08.97"N.
LONG. = 103°50'45.76"W.
NMSP-E (NAD27)
N (Y) = 377055.2'
E (X) = 651147.1'
LAT. = 32.0357011"N.
LONG. = 103.8455672"W.

0 500 1000
1" = 1000 FEET

SECTION 17, T 26S, R 30E, N.M.P.M.

COUNTY: EDDY STATE: NM

DESCRIPTION: 200' FNL & 710' FWL

OPERATOR: RKI EXPLORATION & PRODUCTION

WELL NAME: RDX FEDERAL 17-35H



DRIVING DIRECTIONS:

FROM THE INTERSECTION OF STATE HIGHWAY 285 AND WHITEHORN RD. GO EAST/NORTHEAST ON WHITEHORN RD FOR 3.5 MILES PAST A CURVE FOR AN ADDITIONAL 0.6 MILES. TURN LEFT ON PIPELINE ROAD AND HEAD EAST FOR 2.8 MILES. TURN RIGHT ON TARBUSH RD. AND HEAD SOUTH FOR 0.3 MILES. TURN LEFT ON LEASE ROAD AND HEAD EAST FOR 0.5 MILES. TURN RIGHT ON LEASE ROAD AND HEAD SOUTHEAST FOR 0.6 MILES. TURN LEFT ON LEASE ROAD AND HEAD EAST FOR 1.9 MILES AND LOCATION IS APPROXIMATELY 360' TO THE NORTH.

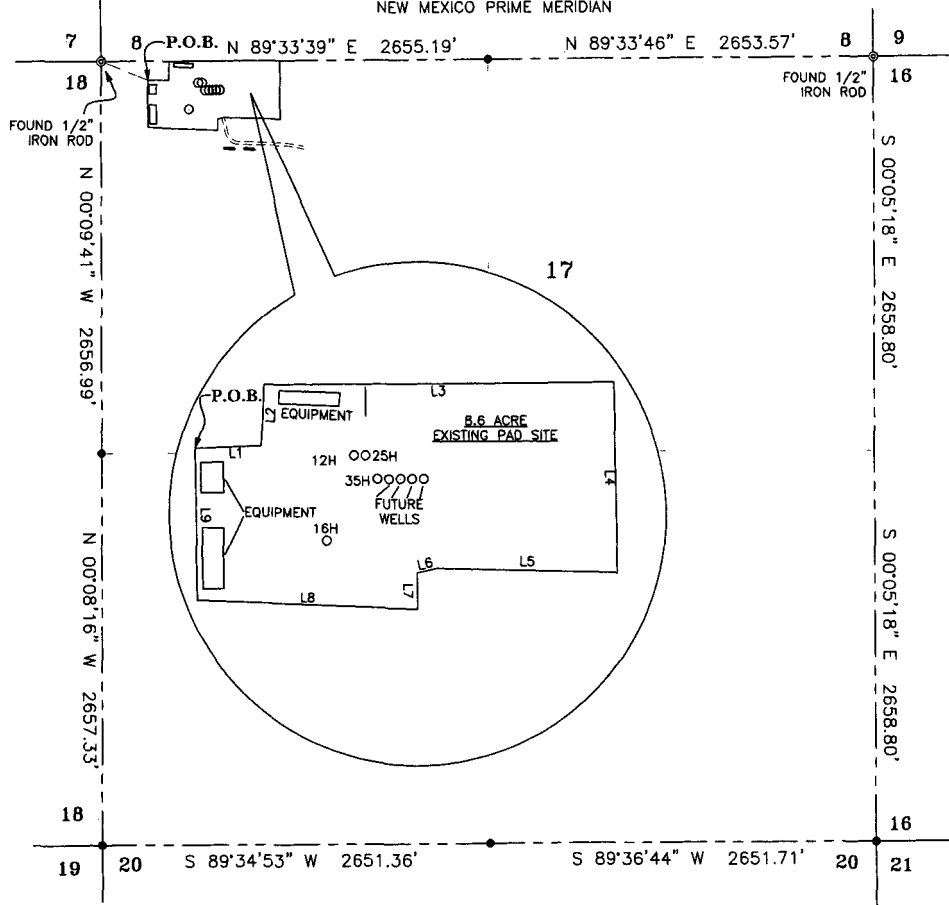


550 Bailey Ave., 205 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

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SECTION 17
TOWNSHIP 26 SOUTH, RANGE 30 EAST
NEW MEXICO PRIME MERIDIAN



LEGEND

- EXISTING PIPELINE
- EXISTING ROAD
- EXISTING PAD
- SECTION LINE
- P.O.B. POINT OF BEGINNING
- FOUND BRASS CAP MONUMENT
- ⊙ FOUND IRON ROD

GENERAL NOTES

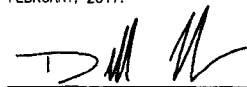
1. COORDINATES SHOWN ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM OF NAD 83 (HARN), EAST ZONE.
2. VERTICAL DATUM IS NAVD 88.
3. LATITUDE AND LONGITUDE ARE NAD 83 AS SHOWN.
4. AREA, DISTANCES, AND COORDINATES ARE "GRID".
5. UNITS ARE UNITED STATES SURVEY FOOT.
6. ALL LEASE AND TRACT INFORMATION SHOWN HERE ON IS DONE SO BY LIMITED DEED RECORD INFORMATION ONLY. ALL ACREAGES SHOWN ARE BY DEED AND LEASE CALL, EXCEPT WHERE NOTED. THIS IS NOT IN ANY WAY A "BOUNDARY SURVEY".



0 500' 1000'
1" = 1000 FEET

LINE	BEARING	DISTANCE
L1	N 87°50'49" E	141.50'
L2	N 02°22'06" E	128.81'
L3	N 89°33'39" E	752.48'
L4	S 00°59'58" E	402.08'
L5	N 88°33'52" W	386.75'
L6	S 76°22'53" W	43.93'
L7	S 00°19'06" E	76.87'
L8	N 87°52'12" W	473.79'
L9	N 00°41'02" W	322.17'

I, MARK DILLON HARP, DO HEREBY STATE THAT THE ABOVE AND FOREGOING SURVEY PLAT WAS PREPARED FROM A SURVEY MADE ON THE GROUND, UNDER MY DIRECTION AND SUPERVISION DURING THE MONTH OF FEBRUARY, 2017.



MARK DILLON HARP
PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23786



PLAT OF:
AN EXISTING PAD FOR:
RKI EXPLORATION & PRODUCTION
RDx FEDERAL 17 PAD
SITUATED IN SECTION 17, TOWNSHIP 26 SOUTH,
RANGE 30 EAST, NEW MEXICO PRIME MERIDIAN,
EDDY COUNTY, NEW MEXICO



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DATE: 02-14-2017 PROJECT NO: 2017020219
DRAWN BY: AJ/R SCALE: 1" = 1000'
CHECKED BY: DH SHEET: 1 OF 1
FIELD CREW: RE-PD REVISION: none

SECTION 8

NEW MEXICO

PRIME MERIDIAN

SECTION LINE

N 67°46'42" W 344.90'
FOUND 1 1/2" IRON ROD
GENERAL NOTES

GENERAL NOTES

1. COORDINATES SHOWN ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM OF NAD 83 (HARN).
2. EAST ZONE.
3. VERTICAL DATUM IS NAVD 83
4. LATITUDE AND LONGITUDE ARE NAD 83 AS SHOWN.
5. AREA, DISTANCES, AND COORDINATES ARE "GRID".
6. UNITS ARE UNITED STATES SURVEY FOOT.
7. ALL LEASE AND TRACT INFORMATION SHOWN HERE ON IS DONE SO BY LIMITED DEED RECORD INFORMATION ONLY. ALL ACRESAGES SHOWN ARE BY DEED AND LEASE CALL, EXCEPT WHERE NOTED. THIS IS NOT IN ANY WAY A "BOUNDARY SURVEY".

I, MARK DILLON HARP, DO HEREBY STATE THAT THE ABOVE AND FOREGOING SURVEY PLAT WAS PREPARED FROM A SURVEY MADE ON THE GROUND, UNDER MY DIRECTION AND SUPERVISION DURING THE MONTH OF FEBRUARY, 2017.

MARK DILLON HARP
PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23786

PLAT OF:
AN EXISTING PAD FOR:
RKI EXPLORATION & PRODUCTION
RDX FEDERAL 17 PAD

SITUATED IN
SECTION 17, TOWNSHIP 26 SOUTH, RANGE 30 EAST,
NEW MEXICO PRIME MERIDIAN EDDY COUNTY, NEW MEXICO

FSC INC.
SURVEYORS & ENGINEERS
550 Bailey Ave., 205 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TDDP Firm T7957 | TDPS Firm 10193887
www.fscinc.net

DATE:	02/14/2016
DRAWN BY:	JAR
CHECKED BY:	DH
FIELD CREW:	RE-PO
PROJECT NO:	2017020329
SCALE:	1" = 100'
SHEET:	SHT 1 OF 1

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LINE	BEARING	DISTANCE
L1	N 87°50'49" E	141.50'
L2	N 02°22'06" E	128.81'
L3	N 89°33'29" E	752.48'
L4	S 00°59'58" E	402.08'
L5	N 88°33'52" W	386.75'
L6	S 76°22'53" W	43.93'
L7	S 00°19'06" E	76.87'
L8	N 87°52'12" W	473.79'
L9	N 00°41'03" W	329.17'

LEGEND

--- EXISTING PIPELINE
--- EXISTING ROAD
--- EXISTING PAD
--- POINT OF BEGINNING

SECTION 17
TOWNSHIP 26 SOUTH, RANGE 30 EAST
NEW MEXICO PRIME MERIDIAN

8.6 ACRE
EXISTING PAD SITE

ALL WELLS ARE
SPACED 25' APART

/// FUTURE WELLS

1640



 T. D. Williams

PLAT OF:

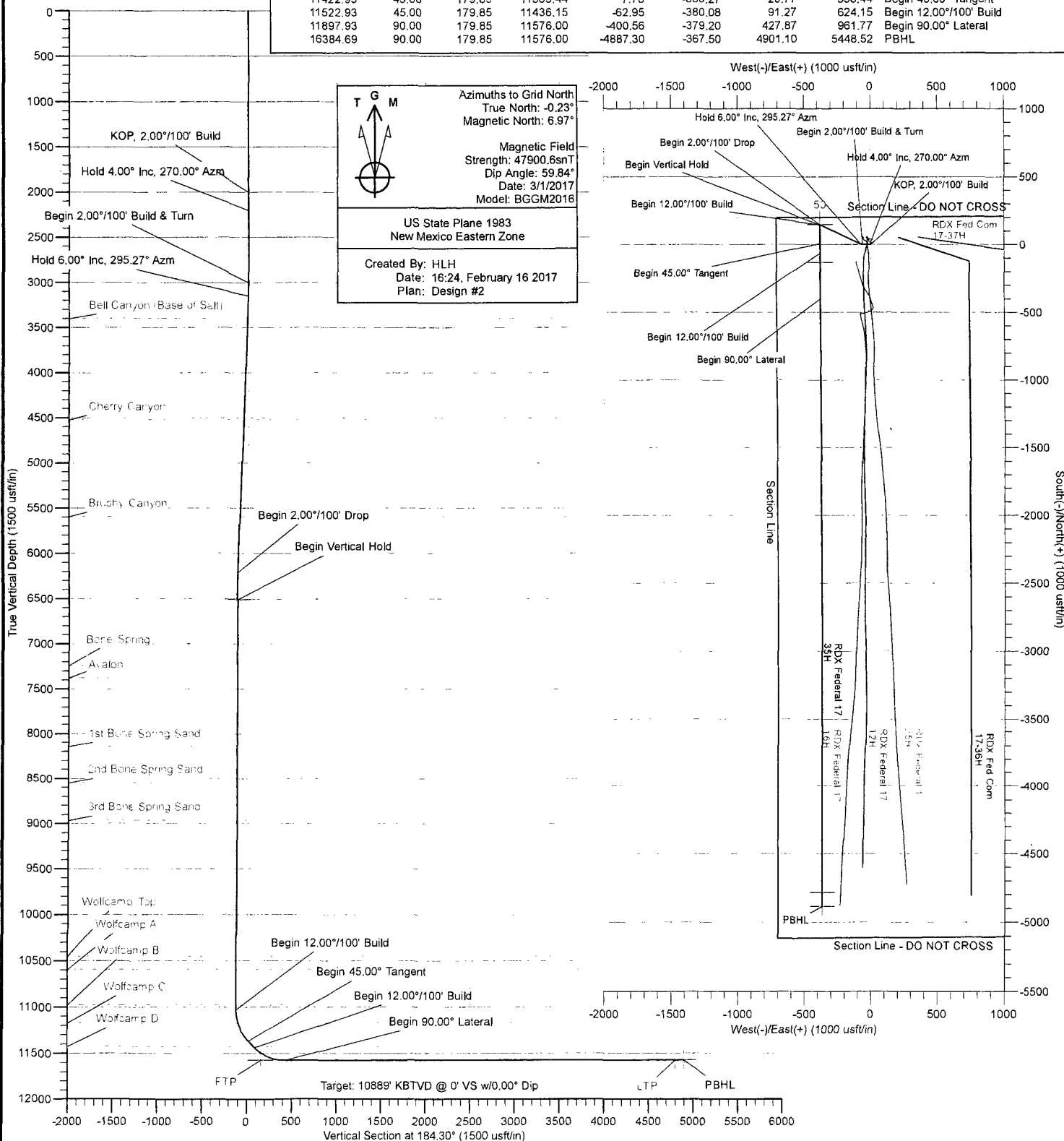
AN EXISTING PAD FOR:
EXPLORATION & PRODUCTION
RDX FEDERAL 17 PAD

SITUATED IN
SECTION 17, TOWNSHIP 26 SOUTH, RANGE 30 EAST,
NEW MEXICO PRIME MERIDIAN EDDY COUNTY, NEW MEXICO

FSC INC.
SURVEYORS & ENGINEERS
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ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	KOP, 2.00"/100' Build
2200.00	4.00	270.00	2199.84	0.00	-6.98	0.52	6.98	Hold 4.00° Inc, 270.00° Azm
3000.00	4.00	270.00	2997.89	0.00	-62.78	4.71	62.78	Begin 2.00"/100' Build & Turn
3146.58	6.00	295.27	3143.92	3.27	-74.83	2.35	75.44	Hold 6.00° Inc, 295.27° Azm
6229.98	6.00	295.27	6210.42	140.91	-366.43	-113.03	397.89	Begin 2.00"/100' Drop
6530.11	0.00	0.00	6510.00	147.61	-380.63	-118.65	413.60	Begin Vertical Hold
11047.93	0.00	0.00	11027.82	147.61	-380.63	-118.65	413.60	Begin 12.00"/100' Build
11422.93	45.00	179.85	11365.44	7.76	-380.27	20.77	553.44	Begin 45.00° Tangent
11522.93	45.00	179.85	11436.15	-62.95	-380.08	91.27	624.15	Begin 12.00"/100' Build
11897.93	90.00	179.85	11576.00	-400.56	-379.20	427.87	961.77	Begin 90.00° Lateral
16384.69	90.00	179.85	11576.00	-4887.30	-367.50	4901.10	5448.52	PBHL



WPX ENERGY



NEW OIL CONSERVATION
ARTESIA DISTRICT

MAY 08 2017

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WPX Energy

Eddy County, New Mexico (NAD 83)
RDX Federal 17
35H

Wellbore #1

Plan: Design #2

Standard Planning Report

16 February, 2017

Database: EDM Conroe
Company: WPX Energy
Project: Eddy County, New Mexico (NAD 83)
Site: RDX Federal 17
Well: 35H
Wellbore: Wellbore #1
Design: Design #2

Local Co-ordinate Reference: Well 35H
TVD Reference: WELL @ 3093.00usft (Orion Pegasus)
MD Reference: WELL @ 3093.00usft (Orion Pegasus)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Eddy County, New Mexico (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Well 35H

Well Position +N/-S 381,922.30 usft **Northing:** 381,922.30 usft **Latitude:** 32° 2' 57.396 N
+E/-W 672,581.10 usft **Easting:** 672,581.10 usft **Longitude:** 103° 54' 35.012 W

Position Uncertainty 0.00 usft **Wellhead Elevation:** **Ground Level:** 3,071.00 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2016	3/1/2017	7.20	59.84	47,901

Design Design #2

Audit Notes:

Version: **Phase:** PROTOTYPE **Tie On Depth:** 0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	184.30

Plan Survey Tool Program **Date** 2/16/2017

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	16,384.69	Design #2 (Wellbore #1)	MWD OWSG MWD - Standard

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,200.00	4.00	270.00	2,199.84	0.00	-6.98	2.00	2.00	0.00	270.00	
3,000.00	4.00	270.00	2,997.89	0.00	-62.78	0.00	0.00	0.00	0.00	
3,146.58	6.00	295.27	3,143.92	3.27	-74.83	2.00	1.37	17.24	60.78	
6,229.98	6.00	295.27	6,210.42	140.91	-366.43	0.00	0.00	0.00	0.00	
6,530.11	0.00	0.00	6,510.00	147.61	-380.63	2.00	-2.00	0.00	180.00	VP v2 - RDX Feder
11,047.93	0.00	0.00	11,027.82	147.61	-380.63	0.00	0.00	0.00	0.00	
11,422.93	45.00	179.85	11,365.44	7.76	-380.27	12.00	12.00	0.00	179.85	PBHL v2 - RDX Fec
11,522.93	45.00	179.85	11,436.15	-62.95	-380.08	0.00	0.00	0.00	0.00	
11,897.93	90.00	179.85	11,576.00	-400.56	-379.20	12.00	12.00	0.00	0.00	
16,384.69	90.00	179.85	11,576.00	-4,887.30	-367.50	0.00	0.00	0.00	0.00	PBHL v2 - RDX Fec

Database: EDM Conroe
Company: WPX Energy
Project: Eddy County, New Mexico (NAD 83)
Site: RDX Federal 17
Well: 35H
Wellbore: Wellbore #1
Design: Design #2

Local Co-ordinate Reference: Well 35H
TVD Reference: WELL @ 3093.00usft (Orion Pegasus)
MD Reference: WELL @ 3093.00usft (Orion Pegasus)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 2.00°/100' Build									
2,100.00	2.00	270.00	2,099.98	0.00	-1.75	0.13	2.00	2.00	0.00
2,200.00	4.00	270.00	2,199.84	0.00	-6.98	0.52	2.00	2.00	0.00
Hold 4.00° Inc, 270.00° Azm									
2,300.00	4.00	270.00	2,299.59	0.00	-13.95	1.05	0.00	0.00	0.00
2,400.00	4.00	270.00	2,399.35	0.00	-20.93	1.57	0.00	0.00	0.00
2,500.00	4.00	270.00	2,499.11	0.00	-27.91	2.09	0.00	0.00	0.00
2,600.00	4.00	270.00	2,598.86	0.00	-34.88	2.62	0.00	0.00	0.00
2,700.00	4.00	270.00	2,698.62	0.00	-41.86	3.14	0.00	0.00	0.00
2,800.00	4.00	270.00	2,798.38	0.00	-48.83	3.66	0.00	0.00	0.00
2,900.00	4.00	270.00	2,898.13	0.00	-55.81	4.18	0.00	0.00	0.00
3,000.00	4.00	270.00	2,997.89	0.00	-62.78	4.71	0.00	0.00	0.00
Begin 2.00°/100' Build & Turn									
3,100.00	5.27	289.36	3,097.57	1.52	-70.61	3.78	2.00	1.27	19.36
3,146.58	6.00	295.27	3,143.92	3.27	-74.83	2.35	2.00	1.57	12.69
Hold 6.00° Inc, 295.27° Azm									
3,200.00	6.00	295.27	3,197.05	5.66	-79.88	0.35	0.00	0.00	0.00
3,300.00	6.00	295.27	3,296.50	10.12	-89.34	-3.39	0.00	0.00	0.00
3,400.00	6.00	295.27	3,395.95	14.58	-98.80	-7.13	0.00	0.00	0.00
3,500.00	6.00	295.27	3,495.40	19.05	-108.25	-10.88	0.00	0.00	0.00
3,600.00	6.00	295.27	3,594.85	23.51	-117.71	-14.62	0.00	0.00	0.00
3,700.00	6.00	295.27	3,694.31	27.98	-127.17	-18.36	0.00	0.00	0.00
3,800.00	6.00	295.27	3,793.76	32.44	-136.62	-22.10	0.00	0.00	0.00
3,900.00	6.00	295.27	3,893.21	36.90	-146.08	-25.84	0.00	0.00	0.00
4,000.00	6.00	295.27	3,992.66	41.37	-155.54	-29.59	0.00	0.00	0.00
4,100.00	6.00	295.27	4,092.11	45.83	-164.99	-33.33	0.00	0.00	0.00
4,200.00	6.00	295.27	4,191.56	50.29	-174.45	-37.07	0.00	0.00	0.00
4,300.00	6.00	295.27	4,291.02	54.76	-183.91	-40.81	0.00	0.00	0.00
4,400.00	6.00	295.27	4,390.47	59.22	-193.36	-44.55	0.00	0.00	0.00
4,500.00	6.00	295.27	4,489.92	63.68	-202.82	-48.30	0.00	0.00	0.00
4,600.00	6.00	295.27	4,589.37	68.15	-212.28	-52.04	0.00	0.00	0.00
4,700.00	6.00	295.27	4,688.82	72.61	-221.74	-55.78	0.00	0.00	0.00
4,800.00	6.00	295.27	4,788.27	77.08	-231.19	-59.52	0.00	0.00	0.00

Database: EDM Conroe
Company: WPX Energy
Project: Eddy County, New Mexico (NAD 83)
Site: RDX Federal 17
Well: 35H
Wellbore: Wellbore #1
Design: Design #2

Local Co-ordinate Reference: Well 35H
TVD Reference: WELL @ 3093.00usft (Orion Pegasus)
MD Reference: WELL @ 3093.00usft (Orion Pegasus)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
4,900.00	6.00	295.27	4,887.73	81.54	-240.65	-63.26	0.00	0.00	0.00
5,000.00	6.00	295.27	4,987.18	86.00	-250.11	-67.01	0.00	0.00	0.00
5,100.00	6.00	295.27	5,086.63	90.47	-259.56	-70.75	0.00	0.00	0.00
5,200.00	6.00	295.27	5,186.08	94.93	-269.02	-74.49	0.00	0.00	0.00
5,300.00	6.00	295.27	5,285.53	99.39	-278.48	-78.23	0.00	0.00	0.00
5,400.00	6.00	295.27	5,384.99	103.86	-287.93	-81.98	0.00	0.00	0.00
5,500.00	6.00	295.27	5,484.44	108.32	-297.39	-85.72	0.00	0.00	0.00
5,600.00	6.00	295.27	5,583.89	112.78	-306.85	-89.46	0.00	0.00	0.00
5,700.00	6.00	295.27	5,683.34	117.25	-316.31	-93.20	0.00	0.00	0.00
5,800.00	6.00	295.27	5,782.79	121.71	-325.76	-96.94	0.00	0.00	0.00
5,900.00	6.00	295.27	5,882.24	126.18	-335.22	-100.69	0.00	0.00	0.00
6,000.00	6.00	295.27	5,981.70	130.64	-344.68	-104.43	0.00	0.00	0.00
6,100.00	6.00	295.27	6,081.15	135.10	-354.13	-108.17	0.00	0.00	0.00
6,200.00	6.00	295.27	6,180.60	139.57	-363.59	-111.91	0.00	0.00	0.00
6,229.98	6.00	295.27	6,210.42	140.91	-366.43	-113.03	0.00	0.00	0.00
Begin 2.00°/100' Drop									
6,300.00	4.60	295.27	6,280.13	143.67	-372.28	-115.35	2.00	-2.00	0.00
6,400.00	2.60	295.27	6,379.93	146.35	-377.96	-117.60	2.00	-2.00	0.00
6,500.00	0.60	295.27	6,479.89	147.54	-380.49	-118.60	2.00	-2.00	0.00
6,530.11	0.00	0.00	6,510.00	147.61	-380.63	-118.65	2.00	-2.00	0.00
Begin Vertical Hold									
6,600.00	0.00	0.00	6,579.89	147.61	-380.63	-118.65	0.00	0.00	0.00
6,700.00	0.00	0.00	6,679.89	147.61	-380.63	-118.65	0.00	0.00	0.00
6,800.00	0.00	0.00	6,779.89	147.61	-380.63	-118.65	0.00	0.00	0.00
6,900.00	0.00	0.00	6,879.89	147.61	-380.63	-118.65	0.00	0.00	0.00
7,000.00	0.00	0.00	6,979.89	147.61	-380.63	-118.65	0.00	0.00	0.00
7,100.00	0.00	0.00	7,079.89	147.61	-380.63	-118.65	0.00	0.00	0.00
7,200.00	0.00	0.00	7,179.89	147.61	-380.63	-118.65	0.00	0.00	0.00
7,300.00	0.00	0.00	7,279.89	147.61	-380.63	-118.65	0.00	0.00	0.00
7,400.00	0.00	0.00	7,379.89	147.61	-380.63	-118.65	0.00	0.00	0.00
7,500.00	0.00	0.00	7,479.89	147.61	-380.63	-118.65	0.00	0.00	0.00
7,600.00	0.00	0.00	7,579.89	147.61	-380.63	-118.65	0.00	0.00	0.00
7,700.00	0.00	0.00	7,679.89	147.61	-380.63	-118.65	0.00	0.00	0.00
7,800.00	0.00	0.00	7,779.89	147.61	-380.63	-118.65	0.00	0.00	0.00
7,900.00	0.00	0.00	7,879.89	147.61	-380.63	-118.65	0.00	0.00	0.00
8,000.00	0.00	0.00	7,979.89	147.61	-380.63	-118.65	0.00	0.00	0.00
8,100.00	0.00	0.00	8,079.89	147.61	-380.63	-118.65	0.00	0.00	0.00
8,200.00	0.00	0.00	8,179.89	147.61	-380.63	-118.65	0.00	0.00	0.00
8,300.00	0.00	0.00	8,279.89	147.61	-380.63	-118.65	0.00	0.00	0.00
8,400.00	0.00	0.00	8,379.89	147.61	-380.63	-118.65	0.00	0.00	0.00
8,500.00	0.00	0.00	8,479.89	147.61	-380.63	-118.65	0.00	0.00	0.00
8,600.00	0.00	0.00	8,579.89	147.61	-380.63	-118.65	0.00	0.00	0.00
8,700.00	0.00	0.00	8,679.89	147.61	-380.63	-118.65	0.00	0.00	0.00
8,800.00	0.00	0.00	8,779.89	147.61	-380.63	-118.65	0.00	0.00	0.00
8,900.00	0.00	0.00	8,879.89	147.61	-380.63	-118.65	0.00	0.00	0.00
9,000.00	0.00	0.00	8,979.89	147.61	-380.63	-118.65	0.00	0.00	0.00
9,100.00	0.00	0.00	9,079.89	147.61	-380.63	-118.65	0.00	0.00	0.00
9,200.00	0.00	0.00	9,179.89	147.61	-380.63	-118.65	0.00	0.00	0.00
9,300.00	0.00	0.00	9,279.89	147.61	-380.63	-118.65	0.00	0.00	0.00
9,400.00	0.00	0.00	9,379.89	147.61	-380.63	-118.65	0.00	0.00	0.00
9,500.00	0.00	0.00	9,479.89	147.61	-380.63	-118.65	0.00	0.00	0.00
9,600.00	0.00	0.00	9,579.89	147.61	-380.63	-118.65	0.00	0.00	0.00
9,700.00	0.00	0.00	9,679.89	147.61	-380.63	-118.65	0.00	0.00	0.00



MS Energy Services
Planning Report



Database: EDM Conroe
Company: WPX Energy
Project: Eddy County, New Mexico (NAD 83)
Site: RDX Federal 17
Well: 35H
Wellbore: Wellbore #1
Design: Design #2

Local Co-ordinate Reference: Well 35H
TVD Reference: WELL @ 3093.00usft (Orion Pegasus)
MD Reference: WELL @ 3093.00usft (Orion Pegasus)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
9,800.00	0.00	0.00	9,779.89	147.61	-380.63	-118.65	0.00	0.00	0.00
9,900.00	0.00	0.00	9,879.89	147.61	-380.63	-118.65	0.00	0.00	0.00
10,000.00	0.00	0.00	9,979.89	147.61	-380.63	-118.65	0.00	0.00	0.00
10,100.00	0.00	0.00	10,079.89	147.61	-380.63	-118.65	0.00	0.00	0.00
10,200.00	0.00	0.00	10,179.89	147.61	-380.63	-118.65	0.00	0.00	0.00
10,300.00	0.00	0.00	10,279.89	147.61	-380.63	-118.65	0.00	0.00	0.00
10,400.00	0.00	0.00	10,379.89	147.61	-380.63	-118.65	0.00	0.00	0.00
10,500.00	0.00	0.00	10,479.89	147.61	-380.63	-118.65	0.00	0.00	0.00
10,600.00	0.00	0.00	10,579.89	147.61	-380.63	-118.65	0.00	0.00	0.00
10,700.00	0.00	0.00	10,679.89	147.61	-380.63	-118.65	0.00	0.00	0.00
10,800.00	0.00	0.00	10,779.89	147.61	-380.63	-118.65	0.00	0.00	0.00
10,900.00	0.00	0.00	10,879.89	147.61	-380.63	-118.65	0.00	0.00	0.00
11,000.00	0.00	0.00	10,979.89	147.61	-380.63	-118.65	0.00	0.00	0.00
11,047.93	0.00	0.00	11,027.82	147.61	-380.63	-118.65	0.00	0.00	0.00
Begin 12.00°/100' Build									
11,050.00	0.25	179.85	11,029.89	147.61	-380.63	-118.65	12.00	12.00	0.00
11,075.00	3.25	179.85	11,054.87	146.84	-380.63	-117.89	12.00	12.00	0.00
11,100.00	6.25	179.85	11,079.78	144.77	-380.62	-115.83	12.00	12.00	0.00
11,125.00	9.25	179.85	11,104.55	141.40	-380.61	-112.47	12.00	12.00	0.00
11,150.00	12.25	179.85	11,129.11	136.74	-380.60	-107.82	12.00	12.00	0.00
11,175.00	15.25	179.85	11,153.39	130.80	-380.59	-101.90	12.00	12.00	0.00
11,200.00	18.25	179.85	11,177.33	123.60	-380.57	-94.71	12.00	12.00	0.00
11,225.00	21.25	179.85	11,200.85	115.15	-380.55	-86.29	12.00	12.00	0.00
11,250.00	24.25	179.85	11,223.91	105.49	-380.52	-76.66	12.00	12.00	0.00
11,275.00	27.25	179.85	11,246.42	94.63	-380.49	-65.83	12.00	12.00	0.00
11,300.00	30.25	179.85	11,268.34	82.61	-380.46	-53.84	12.00	12.00	0.00
11,325.00	33.25	179.85	11,289.60	69.45	-380.43	-40.73	12.00	12.00	0.00
11,350.00	36.25	179.85	11,310.14	55.21	-380.39	-26.53	12.00	12.00	0.00
11,375.00	39.25	179.85	11,329.90	39.90	-380.35	-11.27	12.00	12.00	0.00
11,400.00	42.25	179.85	11,348.84	23.59	-380.31	5.00	12.00	12.00	0.00
11,422.93	45.00	179.85	11,365.44	7.76	-380.27	20.77	12.00	12.00	0.00
Begin 45.00° Tangent									
11,500.00	45.00	179.85	11,419.93	-46.73	-380.12	75.10	0.00	0.00	0.00
11,522.93	45.00	179.85	11,436.15	-62.95	-380.08	91.27	0.00	0.00	0.00
Begin 12.00°/100' Build									
11,525.00	45.25	179.85	11,437.61	-64.41	-380.08	92.73	12.00	12.00	0.00
11,550.00	48.25	179.85	11,454.74	-82.62	-380.03	110.88	12.00	12.00	0.00
11,575.00	51.25	179.85	11,470.89	-101.69	-379.98	129.90	12.00	12.00	0.00
11,600.00	54.25	179.85	11,486.02	-121.59	-379.93	149.74	12.00	12.00	0.00
11,625.00	57.25	179.85	11,500.09	-142.25	-379.87	170.34	12.00	12.00	0.00
11,650.00	60.25	179.85	11,513.06	-163.62	-379.82	191.64	12.00	12.00	0.00
11,675.00	63.25	179.85	11,524.89	-185.64	-379.76	213.60	12.00	12.00	0.00
11,700.00	66.25	179.85	11,535.55	-208.25	-379.70	236.14	12.00	12.00	0.00
11,725.00	69.25	179.85	11,545.02	-231.39	-379.64	259.20	12.00	12.00	0.00
11,750.00	72.25	179.85	11,553.26	-254.99	-379.58	282.73	12.00	12.00	0.00
11,775.00	75.25	179.85	11,560.26	-278.98	-379.52	306.66	12.00	12.00	0.00
11,800.00	78.25	179.85	11,565.99	-303.31	-379.45	330.91	12.00	12.00	0.00
11,825.00	81.25	179.85	11,570.44	-327.91	-379.39	355.44	12.00	12.00	0.00
11,850.00	84.25	179.85	11,573.59	-352.71	-379.33	380.16	12.00	12.00	0.00
11,875.00	87.25	179.85	11,575.45	-377.64	-379.26	405.01	12.00	12.00	0.00
11,897.93	90.00	179.85	11,576.00	-400.56	-379.20	427.87	12.00	12.00	0.00
Begin 90.00° Lateral									
11,900.00	90.00	179.85	11,576.00	-402.63	-379.20	429.93	0.00	0.00	0.00

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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)
12,000.00	90.00	179.85	11,576.00	-502.63	-378.93	529.63	0.00	0.00	0.00
12,100.00	90.00	179.85	11,576.00	-602.63	-378.67	629.33	0.00	0.00	0.00
12,200.00	90.00	179.85	11,576.00	-702.63	-378.41	729.02	0.00	0.00	0.00
12,300.00	90.00	179.85	11,576.00	-802.63	-378.15	828.72	0.00	0.00	0.00
12,400.00	90.00	179.85	11,576.00	-902.63	-377.89	928.42	0.00	0.00	0.00
12,500.00	90.00	179.85	11,576.00	-1,002.63	-377.63	1,028.12	0.00	0.00	0.00
12,600.00	90.00	179.85	11,576.00	-1,102.63	-377.37	1,127.82	0.00	0.00	0.00
12,700.00	90.00	179.85	11,576.00	-1,202.63	-377.11	1,227.52	0.00	0.00	0.00
12,800.00	90.00	179.85	11,576.00	-1,302.63	-376.85	1,327.22	0.00	0.00	0.00
12,900.00	90.00	179.85	11,576.00	-1,402.63	-376.59	1,426.91	0.00	0.00	0.00
13,000.00	90.00	179.85	11,576.00	-1,502.63	-376.33	1,526.61	0.00	0.00	0.00
13,100.00	90.00	179.85	11,576.00	-1,602.63	-376.07	1,626.31	0.00	0.00	0.00
13,200.00	90.00	179.85	11,576.00	-1,702.62	-375.80	1,726.01	0.00	0.00	0.00
13,300.00	90.00	179.85	11,576.00	-1,802.62	-375.54	1,825.71	0.00	0.00	0.00
13,400.00	90.00	179.85	11,576.00	-1,902.62	-375.28	1,925.41	0.00	0.00	0.00
13,500.00	90.00	179.85	11,576.00	-2,002.62	-375.02	2,025.11	0.00	0.00	0.00
13,600.00	90.00	179.85	11,576.00	-2,102.62	-374.76	2,124.80	0.00	0.00	0.00
13,700.00	90.00	179.85	11,576.00	-2,202.62	-374.50	2,224.50	0.00	0.00	0.00
13,800.00	90.00	179.85	11,576.00	-2,302.62	-374.24	2,324.20	0.00	0.00	0.00
13,900.00	90.00	179.85	11,576.00	-2,402.62	-373.98	2,423.90	0.00	0.00	0.00
14,000.00	90.00	179.85	11,576.00	-2,502.62	-373.72	2,523.60	0.00	0.00	0.00
14,100.00	90.00	179.85	11,576.00	-2,602.62	-373.46	2,623.30	0.00	0.00	0.00
14,200.00	90.00	179.85	11,576.00	-2,702.62	-373.20	2,723.00	0.00	0.00	0.00
14,300.00	90.00	179.85	11,576.00	-2,802.62	-372.94	2,822.69	0.00	0.00	0.00
14,400.00	90.00	179.85	11,576.00	-2,902.62	-372.68	2,922.39	0.00	0.00	0.00
14,500.00	90.00	179.85	11,576.00	-3,002.62	-372.41	3,022.09	0.00	0.00	0.00
14,600.00	90.00	179.85	11,576.00	-3,102.62	-372.15	3,121.79	0.00	0.00	0.00
14,700.00	90.00	179.85	11,576.00	-3,202.62	-371.89	3,221.49	0.00	0.00	0.00
14,800.00	90.00	179.85	11,576.00	-3,302.62	-371.63	3,321.19	0.00	0.00	0.00
14,900.00	90.00	179.85	11,576.00	-3,402.62	-371.37	3,420.89	0.00	0.00	0.00
15,000.00	90.00	179.85	11,576.00	-3,502.62	-371.11	3,520.59	0.00	0.00	0.00
15,100.00	90.00	179.85	11,576.00	-3,602.62	-370.85	3,620.28	0.00	0.00	0.00
15,200.00	90.00	179.85	11,576.00	-3,702.62	-370.59	3,719.98	0.00	0.00	0.00
15,300.00	90.00	179.85	11,576.00	-3,802.62	-370.33	3,819.68	0.00	0.00	0.00
15,400.00	90.00	179.85	11,576.00	-3,902.62	-370.07	3,919.38	0.00	0.00	0.00
15,500.00	90.00	179.85	11,576.00	-4,002.62	-369.81	4,019.08	0.00	0.00	0.00
15,600.00	90.00	179.85	11,576.00	-4,102.62	-369.55	4,118.78	0.00	0.00	0.00
15,700.00	90.00	179.85	11,576.00	-4,202.62	-369.29	4,218.48	0.00	0.00	0.00
15,800.00	90.00	179.85	11,576.00	-4,302.62	-369.02	4,318.17	0.00	0.00	0.00
15,900.00	90.00	179.85	11,576.00	-4,402.62	-368.76	4,417.87	0.00	0.00	0.00
16,000.00	90.00	179.85	11,576.00	-4,502.62	-368.50	4,517.57	0.00	0.00	0.00
16,100.00	90.00	179.85	11,576.00	-4,602.61	-368.24	4,617.27	0.00	0.00	0.00
16,200.00	90.00	179.85	11,576.00	-4,702.61	-367.98	4,716.97	0.00	0.00	0.00
16,300.00	90.00	179.85	11,576.00	-4,802.61	-367.72	4,816.67	0.00	0.00	0.00
16,384.69	90.00	179.85	11,576.00	-4,887.30	-367.50	4,901.10	0.00	0.00	0.00
PBHL									

Database: EDM Conroe
Company: WPX Energy
Project: Eddy County, New Mexico (NAD 83)
Site: RDX Federal 17
Well: 35H
Wellbore: Wellbore #1
Design: Design #2

Local Co-ordinate Reference: Well 35H
TVD Reference: WELL @ 3093.00usft (Orion Pegasus)
MD Reference: WELL @ 3093.00usft (Orion Pegasus)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets
Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VP v2 - RDX Federal - plan hits target center - Point	0.00	0.00	6,510.00	147.61	-380.63	382,069.91	672,200.47	32° 2' 58.871 N	103° 54' 39.428 W
LTP v2 - RDX Federal - plan misses target center by 0.06usft at 16284.69usft MD (11576.00 TVD, -4787.30 N, -367.76 E) - Point	0.00	0.00	11,576.00	-4,787.30	-367.70	377,135.00	672,213.40	32° 2' 10.034 N	103° 54' 39.502 W
FTP v2 - RDX Federa - plan misses target center by 69.97usft at 11652.64usft MD (11514.36 TVD, -165.92 N, -379.81 E) - Point	0.00	0.00	11,576.00	-132.80	-379.90	381,789.50	672,201.20	32° 2' 56.096 N	103° 54' 39.432 W
PBHL v2 - RDX Feder - plan hits target center - Point	0.00	0.00	11,576.00	-4,887.30	-367.50	377,035.00	672,213.60	32° 2' 9.045 N	103° 54' 39.504 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,404.07	3,400.00	Bell Canyon (Base of Salt)		0.00	
4,533.26	4,523.00	Cherry Canyon		0.00	
5,610.17	5,594.00	Brushy Canyon		0.00	
7,264.11	7,244.00	Bone Spring		0.00	
7,400.11	7,380.00	Avalon		0.00	
8,170.11	8,150.00	1st Bone Spring Sand		0.00	
8,569.11	8,549.00	2nd Bone Spring Sand		0.00	
8,985.11	8,965.00	3rd Bone Spring Sand		0.00	
10,474.11	10,454.00	Wolfcamp Top		0.00	
10,618.11	10,598.00	Wolfcamp A		0.00	
11,001.11	10,981.00	Wolfcamp B		0.00	
11,195.45	11,173.00	Wolfcamp C		0.00	
11,510.00	11,427.00	Wolfcamp D		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.00	2,000.00	0.00	0.00	KOP, 2.00°/100' Build
2,200.00	2,199.84	0.00	-6.98	Hold 4.00° Inc, 270.00° Azm
3,000.00	2,997.89	0.00	-62.78	Begin 2.00°/100' Build & Turn
3,146.58	3,143.92	3.27	-74.83	Hold 6.00° Inc, 295.27° Azm
6,229.98	6,210.42	140.91	-366.43	Begin 2.00°/100' Drop
6,530.11	6,510.00	147.61	-380.63	Begin Vertical Hold
11,047.93	11,027.82	147.61	-380.63	Begin 12.00°/100' Build
11,422.93	11,365.44	7.76	-380.27	Begin 45.00° Tangent
11,522.93	11,436.15	-62.95	-380.08	Begin 12.00°/100' Build
11,897.93	11,576.00	-400.56	-379.20	Begin 90.00° Lateral
16,384.69	11,576.00	-4,887.30	-367.50	PBHL