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3Form 3160-5
(February 2005)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFarmington Field Office
Bureau of Land ManagementFORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE -- Other instructions on page 2.

5. Lease Serial No.
NMSF078362 NMNM 28735

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.
1328298. Well Name and No.
NE CHACO COM #902H9. API Well No.
30-039-3129910. Field and Pool or Exploratory Area
Chaco Unit NE HZ11. Country or Parish, State
Rio Arriba, NM

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

WPX Energy Production, LLC

3a. Address

PO Box 640 Aztec, NM 87410

3b. Phone No. (include area code)

505-333-1816

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

SHL: 2403' FNL & 232' FWL SEC 5 23N 6W

BHL: 2324' FNL & 286' FEL SEC 8 23N 6W

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
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	<u>NAME/LATERAL CHANGE</u>
☐ Final Abandonment Notice	☐ 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 recomplate 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 recompletion 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.)

WPX Energy would like to change the well name from NE CHACO COM #253H to NE CHACO COM #902H.

We are also changing the lateral orientation and target horizon per the attached directional, ops plan and C102.

OIL CONS. DIV DIST. 3

JUL 17 2015

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

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

Name (Printed/Typed)

LACEY GRANILLO

Title PERMITTING TECH III

Signature

Date 6/30/15

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

William Tambekou

Petrochem

Title Engineer

Date 07-16-15

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 FFO

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)

District II
811 S. First Street, 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 Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

OIL CONSERVATION DIVISION

1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT

NAME/LATERAL CHANGE

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-31299		*Pool Code 98088	*Pool Name CHACO UNIT NE HZ (OIL)
*Property Code 313800	*Property Name NE CHACO COM		*Well Number 902H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6882'

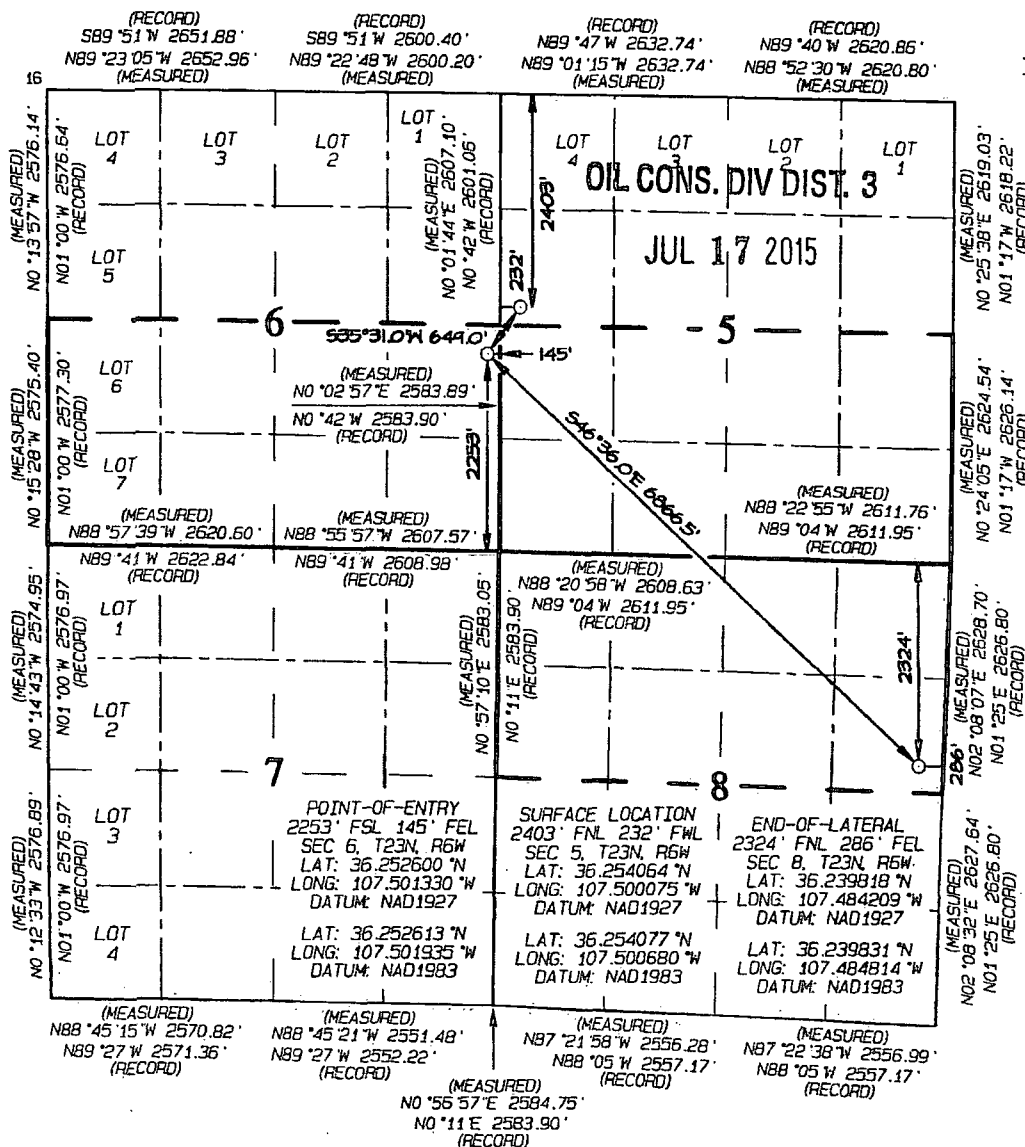
¹⁰ Surface Location

U. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	5	23N	6W		2403	NORTH	232	WEST	RIO ARIBA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	280	East/West line	County
H	8	23N	6W		2324	NORTH	286	EAST	RIO ARriba

¹² Dedicated Acres 961.46	S/2 - Sections 5 & 6 N/2 - Section 8	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-13817-A	9,237.3 Acres
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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

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.

[Signature] 6/30/18

Signature _____ Date _____

LACEY GRANILLO

Printed Name _____
LACEY. GRANILLO@WPXENERGY.COM

E-mail Address _____

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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.

Date Revised: JUNE 30, 2015
Survey Date: DECEMBER 17, 2013

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
NEW MEXICO
15269
REGISTERED PROFESSIONAL SURVEYOR

JASON C. EDWARDS

Certificate Number 15269



WPX ENERGY

Operations Plan

(Note: This procedure will be adjusted on site based upon actual conditions)

DATE: 06/26/2015

FIELD: Chaco Unit NE HZ (Oil)

WELL NAME: NE Chaco Com #902H

SURFACE:

SH Location: SWNW Section 5 23N-06W

ELEVATION: 6882'

BH Location: SENE Section 8 23N-06W
Rio Ariba CO., NM

MINERALS:

MEASURED DEPTH: 12,769'

I. GEOLOGY: Surface formation – San Jose

A. FORMATION TOPS: (KB)

Name	MD	TVD	Name	MD	TVD
Ojo Alamo	1489	1477	Point Lookout	4441	4361
Kirtland	1812	1792	Mancos	4650	4565
Picture Cliffs	2120	2093	Gallup	5071	4976
Lewis	2211	2182	Kickoff Point	4740	4653
Chacra	2550	2514	Top Target	4706	4620
Cliff House	3674	3612	Landing Point	5904	5416
Menefee	3707	3642	Base Target	5904	5416
			TD	12769	5381

B. MUD LOGGING PROGRAM: Mudlogger on location from surface csg to TD.

C. LOGGING PROGRAM: LWD GR from surface casing to TD.

D. NATURAL GAUGES: Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

II. DRILLING

A. MUD PROGRAM: LSND mud (WBM) will be used to drill the 12-1/4" Surface hole, the 8 3/4" Directional Vertical hole, and the curve portion of the wellbore. A LSND (WBM) or (OBM) will be used to drill the lateral portion of well. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses.

B. BOP TESTING: While drill pipe is in use, the pipe rams and the blind rams will be function tested once each trip. The anticipated reservoir is expected to be less than 1300 psi, so the BOPE will be tested to **250 psi (Low) for 5 minutes** and **1500 psi (High) for 10 minutes**. Pressure test surface casing to **600 psi for 30 minutes** and intermediate casing to **1500 psi for 30 minutes**. Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. The drum brakes will be inspected and tested each tour. **All tests and inspections will be recorded in the tour book as to time and results.**

III. MATERIALS

A. CASING PROGRAM:

<u>CASING TYPE</u>	<u>OH SIZE (IN)</u>	<u>DEPTH (MD) (FT)</u>	<u>CASING SIZE (IN)</u>	<u>WEIGHT(LB)</u>	<u>GRADE</u>
Surface	12.25"	320'	9.625"	36#	J-55
Intermediate	8.75"	5,904	7"	23#	K-55
Prod. Liner	6.125"	5754' - 12769'	4-1/2"	11.6#	N-80
Tie-Back String	N/A	Surf. -5754'	4-1/2"	11.6#	N-80

B. FLOAT EQUIPMENT:

1. SURFACE CASING: 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.
2. INTERMEDIATE CASING: 7" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install (1) centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) centralizer at 2,700 ft., 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft.
3. PRODUCTION LINER: Run 4-1/2" Liner with cement nose guide Float Shoe + 2jts. of 4-1/2" casing + Landing Collar + 4-1/2" pup joint + 1 RSI (Sliding Sleeve) positioned inside the 330ft Hard line. Centralizer program will be determined by Wellbore condition and when Lateral is evaluated by Geoscientists and Reservoir Engineers. Set seals on Liner Hanger. Test TOL to 1500 psi for 15 minutes.
4. TIE-BACK CASING: None

C. CEMENTING:

(Note: Volumes may be adjusted onsite due to actual conditions)

1. SURFACE: 5 bbl Fresh Water Spacer, 100 sx (160 cu.ft.) of 14.5 ppg Type I-II (Neat G) + 20% Fly Ash cement w/ 7.41 gal/sack mix water ratio @ 1.61 cu ft/sx yield. Calculated @ volume + 50% excess. WOC 12 hours. Test csg to 600psi. Total Volume: (160 cu-ft/100 sx/ Bbls).TOC at Surface.
2. INTERMEDIATE: 20 bbl (112 cu-ft) Mud Flush III spacer + Lead: +/- 700 sx Foamed 50/50 Poz Cement. 13.0 ppg + 0.1% Halad 766 + 0.2% Versaset + 1.5% Chem-Foamer 760 (Yield :1.43 cu-ft/ sk. / Vol: 1001 cu-ft / 178.3 Bbls.) + TAIL: 100 sx 13.5 #/gal. + 0.2% Versaset + 0.15% HALAD-766 (Yield: 1.28 cu-ft / sk / Vol: 128 cu-ft / 22.8 Bbls.). + Fresh Water Displacement (1,362 cu-ft / +/- 242 Bbls) + 100 sx Top-Out Cement Premium: Yield: (1.17 cu-ft/ sk / (Vol: 117 cu-ft / 20.8 Bbls). WOC 12 hrs. Test Casing to 1500 PSI for 30 minutes. Total Cement Volume: (900 sx / 1246 cu-ft / 222 bbls). Mix with +/- 84,000 SCF Nitrogen. TOC at surface.
3. PRODUCTION LINER: **Spacer #1:**10 bbl (56.cu-ft) Water Spacer. **Spacer #2:** 40 bbl 9.5 ppg (224.6 cu-ft) Tuned Spacer III. **Spacer #3:** 10 bbl Water Spacer. **Lead Cement:** Extencem TM System. Yield 1.29 cu ft/sk, 13.5 ppg, (558 sx / 760 cu ft. / 135 bbls). **Tail Spacer:** 20 BBL of MMCR. **Displacement:** Displace w/ +/- 170 bbl Fr Water. Total Cement (760 cu ft / 135 bbls).

IV. COMPLETION

A. CBL

1. Run CCL for perforating.

B. PRESSURE TEST

1. Pressure test 4-1/2" casing to 4500 psi max, hold at 1500 psi for 30 minutes. Increase pressure to Open RSI sleeves.

C. STIMULATION

1. Stimulate with approximately 2,805,000# 20/40 mesh sand and 340,000# 16/30 mesh sand in 619,113 gallons water with 42,696 mscf N2 for 17 stages.
2. Isolate stages with flow through frac plug.
3. Drill out frac plugs and flowback lateral.

D. RUNNING TUBING

1. *Production Tubing:* Run 2-7/8", 6.5#, J-55, EUE tubing with a SN on top of bottom joint. Land tubing near Top of Liner.

- Although this horizontal well will be drilled past the applicable setbacks, an unorthodox location application is not required because the completed interval in this well, as defined by 19.15.16.7 B(1) NMAC, will be entirely within the applicable setbacks. This approach complies with all applicable rules, including 19.15.16.14 A(3) NMAC, 19.15.16.14 B(2) NMAC, 19.15.16.15 B(2) NMAC, and 19.15.16.15 B(4) NMAC.

NOTE:

Installation of RSI sleeves at Toe of Lateral.

Proposed Operations:

A 4-1/2" 11.6# N-80 Liner will be run to TD and landed +/- 150 ft. into the 7" 23# K-55 Intermediate casing with a Liner Hanger and pack-off assembly then cemented to top of liner hanger.

After cementing and TOL clean up operations are complete, the TOL will be tested to 1500 psi (per BLM).

A 4-1/2" 11.6# N-80 tie-back string with seal assembly will be run and stung into the PBR of the liner hanger, tested to 1500 PSI and hung off at the surface. After Stimulation and Testing operations are complete the 4-1/2" tie-back string will be removed from the well.

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
Start 60 deg tan #902H	5300.72	-275.75	-643.11	1911610.84	597618.30	36.2533025	-107.5022512	Point	
End 60 deg tan #902H	5300.72	-313.58	-607.90	1911573.13	597653.64	36.2531985	-107.5021317	Point	
	- plan hits target center by 3.42usft at 5567.23usft MD (5330.55 TVD, -311.16 N, -605.49 E)								
POE #902H	5416.00	-531.48	-371.44	1911356.04	597890.85	36.2525999	-107.5013297	Point	
TD / PBHL #902H	5381.00	-5183.96	4677.40	1906720.95	602955.66	36.2398180	-107.4842090	Point	
	- plan hits target center								
POE #902H original	5416.00	-381.49	-370.92	1911506.04	597890.85	36.2530120	-107.5013280	Point	
	- plan misses target center by 110.57usft at 5802.41usft MD (5408.41 TVD, -462.82 N, -445.44 E)								
ANNOTATIONS									
	TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation
	550.00	550.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
	1159.62	1164.32	12.29	269.04	-1.10	-65.60	64.14	65.61	Hold 12.29 Inclination
	4653.05	4739.64	12.29	269.04	-13.91	-826.31	807.82	826.43	Start Build DLS 9.00 TFO -139.71
	5300.72	5507.58	60.00	133.27	-275.75	-643.11	577.16	1176.61	Hold 60.00 Inclination
	5300.72	5567.58	60.00	133.27	-311.37	-605.27	533.12	1228.58	Start Build DLS 9.03 TFO 7.12
	5352.64	5614.44	64.20	133.85	-339.90	-575.27	498.14	1269.98	Start DLS 9.03 TFO -2.71
	5415.96	5903.76	90.29	132.66	-531.49	-371.43	260.91	1549.73	POE at 90.29 Inc 132.66 deg
	5381.00	12769.44	90.29	132.66	-5183.96	4677.40	-5596.68	8415.32	TD at 12769.44

WPX Energy

T23N R6W

Chaco 2306-04E

NE Chaco Com #902H

Wellbore #1

Plan #1 25Jun15 sam

Anticollision Summary Report

25 June, 2015

WPX
Anticollision Summary Report

JUL 17 2015

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco Com #902H (A1) - Slot A1
Project:	T23N R6W	TVD Reference:	KB @ 6896.00usft (Aztec 920)
Reference Site:	Chaco 2306-04E	MD Reference:	KB @ 6896.00usft (Aztec 920)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	NE Chaco Com #902H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	COMPASS-SANJUAN
Reference Design:	Plan #1 25Jun15 sam	Offset TVD Reference:	Offset Datum

Reference	Plan #1 25Jun15 sam		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 30.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 5,000.00 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date 6/25/2015				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	12,769.44	Plan #1 25Jun15 sam (Wellbore #1)	MWD	MWD - Standard	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
<u>Chaco 2306-04E</u>						
NE Chaco Com #263H - Wellbore #1 - Plan # 25Jun15 sam	759.04	759.65	15.87	12.74	5.064	CC, ES
NE Chaco Com #263H - Wellbore #1 - Plan # 25Jun15 sam	780.00	780.49	16.11	12.87	4.982	SF
<u>Chaco 2306-05L</u>						
Chaco 2306-05L #255H (A1) - Wellbore #1 - Wellbore #1	7,301.22	6,018.00	938.97	875.48	14.790	CC
Chaco 2306-05L #255H (A1) - Wellbore #1 - Wellbore #1	7,320.00	6,018.00	939.16	875.23	14.690	ES
Chaco 2306-05L #255H (A1) - Wellbore #1 - Wellbore #1	7,620.00	6,018.00	991.61	920.56	13.956	SF
Chaco 2306-05L #255H (A1) - Wellbore #2 ST 1 - Wellbore	8,852.71	7,815.54	203.97	159.47	4.584	CC
Chaco 2306-05L #255H (A1) - Wellbore #2 ST 1 - Wellbore	9,060.00	7,995.74	230.14	152.31	2.957	ES
Chaco 2306-05L #255H (A1) - Wellbore #2 ST 1 - Wellbore	9,270.00	8,173.82	293.85	178.81	2.554	SF
NE Chaco COM #254H (A2) - Wellbore #2 ST1 - Wellbore	7,267.32	5,200.54	846.34	786.53	14.152	CC
NE Chaco COM #254H (A2) - Wellbore #2 ST1 - Wellbore	7,290.00	5,195.68	846.67	786.39	14.048	ES
NE Chaco COM #254H (A2) - Wellbore #2 ST1 - Wellbore	7,530.00	5,156.08	884.82	819.55	13.555	SF
NE Chaco Com #264H (A3) - Wellbore #1 - Wellbore #1	5,490.00	5,519.16	70.57	32.43	1.850	ES, SF
NE Chaco Com #264H (A3) - Wellbore #1 - Wellbore #1	5,512.76	5,536.67	68.75	33.95	1.976	CC
NE Chaco Com #265H (A4) - Wellbore #1 - Wellbore #1	6,184.09	5,512.77	82.16	44.78	2.198	CC, ES
NE Chaco Com #265H (A4) - Wellbore #1 - Wellbore #1	6,210.00	5,495.24	84.26	45.08	2.151	SF
<u>Chaco 2306-08E</u>						
Chaco 2306-08E #197H - Wellbore #1 - Wellbore #1	8,040.08	5,236.67	1,710.92	1,628.98	20.881	CC
Chaco 2306-08E #197H - Wellbore #1 - Wellbore #1	8,070.00	5,233.14	1,711.17	1,628.54	20.709	ES
Chaco 2306-08E #197H - Wellbore #1 - Wellbore #1	8,940.00	5,154.00	1,926.31	1,823.39	18.716	SF
Chaco 2306-08E #198H - Wellbore #1 - Wellbore #1	9,058.91	5,095.40	2,951.92	2,847.71	28.326	CC
Chaco 2306-08E #198H - Wellbore #1 - Wellbore #1	9,120.00	5,090.32	2,952.54	2,846.82	27.927	ES
Chaco 2306-08E #198H - Wellbore #1 - Wellbore #1	11,070.00	5,015.00	3,566.09	3,411.86	23.123	SF
Chaco 2306-08E #266 - Wellbore #1 - Wellbore #1	11,255.34	10,071.41	189.63	107.66	2.313	CC
Chaco 2306-08E #266 - Wellbore #1 - Wellbore #1	11,580.00	10,360.58	243.02	59.96	1.328	Level 3, ES
Chaco 2306-08E #266 - Wellbore #1 - Wellbore #1	11,610.00	10,386.99	252.07	60.93	1.319	Level 3, SF
Chaco 2306-08E #267H - Wellbore #1 - Wellbore #1	12,769.44	10,957.79	337.37	59.26	1.213	Level 2, CC, ES, SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

WPX
Anticollision Summary Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco Com #902H (A1) - Slot A1
Project:	T23N R6W	TVD Reference:	KB @ 6896.00usft (Aztec 920)
Reference Site:	Chaco 2306-04E	MD Reference:	KB @ 6896.00usft (Aztec 920)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	NE Chaco Com #902H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	COMPASS-SANJUAN
Reference Design:	Plan #1 25Jun15 sam	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)		Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design							
Section 5 offsets							
MARCUS #4 - Wellbore #1 - Wellbore #1	540.00	639.00	720.02	709.68	69.649	CC	
MARCUS #4 - Wellbore #1 - Wellbore #1	630.00	728.99	720.81	708.62	59.125	ES	
MARCUS #4 - Wellbore #1 - Wellbore #1	6,090.00	5,514.18	1,385.98	1,259.10	10.923	SF	
RITA #2 - Wellbore #1 - Wellbore #1	9,424.58	5,275.19	1,418.04	1,179.31	5.940	CC	
RITA #2 - Wellbore #1 - Wellbore #1	9,450.00	5,275.06	1,418.26	1,178.91	5.925	ES	
RITA #2 - Wellbore #1 - Wellbore #1	9,630.00	5,274.14	1,432.84	1,188.97	5.875	SF	
RITA #5 - Wellbore #1 - Wellbore #1	7,502.80	5,331.99	377.81	198.68	2.109	CC, ES	
RITA #5 - Wellbore #1 - Wellbore #1	7,530.00	5,331.85	378.78	199.00	2.107	SF	
Section 8 offsets							
Dever #1 - Wellbore #1 - Wellbore #1	11,502.72	5,284.46	660.20	352.22	2.144	CC	
Dever #1 - Wellbore #1 - Wellbore #1	11,520.00	5,284.37	660.42	352.01	2.141	ES	
Dever #1 - Wellbore #1 - Wellbore #1	11,550.00	5,284.22	661.89	352.71	2.141	SF	
Federal 8 #1 - Wellbore #1 - Wellbore #1	12,769.44	5,349.18	790.72	496.28	2.686	CC, ES, SF	
Rita COM #4 - Wellbore #1 - Wellbore #1	10,123.82	5,309.67	1,764.16	1,541.41	7.920	CC	
Rita COM #4 - Wellbore #1 - Wellbore #1	10,170.00	5,309.44	1,764.76	1,540.85	7.881	ES	
Rita COM #4 - Wellbore #1 - Wellbore #1	10,470.00	5,307.91	1,797.80	1,566.35	7.767	SF	

WPX

Anticollision Summary Report

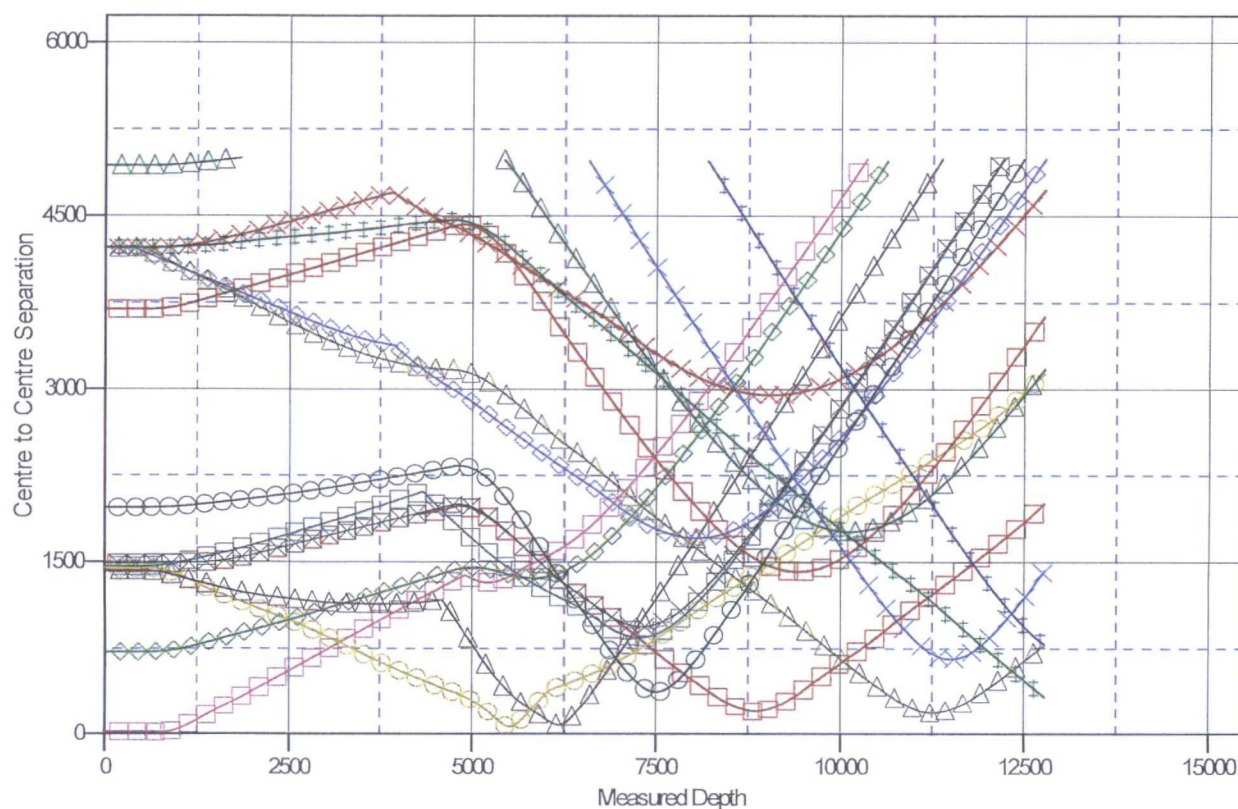
Company: WPX Energy
Project: T23N R6W
Reference Site: Chaco 2306-04E
Site Error: 0.00 usft
Reference Well: NE Chaco Com #902H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 25Jun15 sam

Local Co-ordinate Reference: Well NE Chaco Com #902H (A1) - Slot A1
TVD Reference: KB @ 6896.00usft (Aztec 920)
MD Reference: KB @ 6896.00usft (Aztec 920)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: COMPASS-SANJUAN
Offset TVD Reference: Offset Datum

Reference Depths are relative to KB @ 6896.00usft (Aztec 920)
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.8333334

Coordinates are relative to: NE Chaco Com #902H (A1) - Slot A1
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico West 3003
 Grid Convergence at Surface is: 0.20°

Ladder Plot



LEGEND

Wellbore #1, Plan #25Jun15 sam V0	Chaco 2306-08E #197H, Wellbore #1, Wellbore #1 V0	RITA #5, Wellbore #1, Wellbore #1 V0
A1), Wellbore #2 ST 1, Wellbore #2 ST 1 V0	Chaco 2306-08E #198H, Wellbore #1, Wellbore #1 V0	Dever #1, Wellbore #1, Wellbore #1 V0
A1), Wellbore #1, Wellbore #1 V0	Chaco 2306-08E #266, Wellbore #1, Wellbore #1 V0	Federal 8 #1, Wellbore #1, Wellbore #1 V0
v2), Wellbore #2 ST1, Wellbore #2 ST1 V0	Chaco 2306-08E #267H, Wellbore #1, Wellbore #1 V0	Rita COM #4, Wellbore #1, Wellbore #1 V0
.3), Wellbore #1, Wellbore #1 V0	MARCUS #4, Wellbore #1, Wellbore #1 V0	
.4), Wellbore #1, Wellbore #1 V0	RITA #2, Wellbore #1, Wellbore #1 V0	

WPX

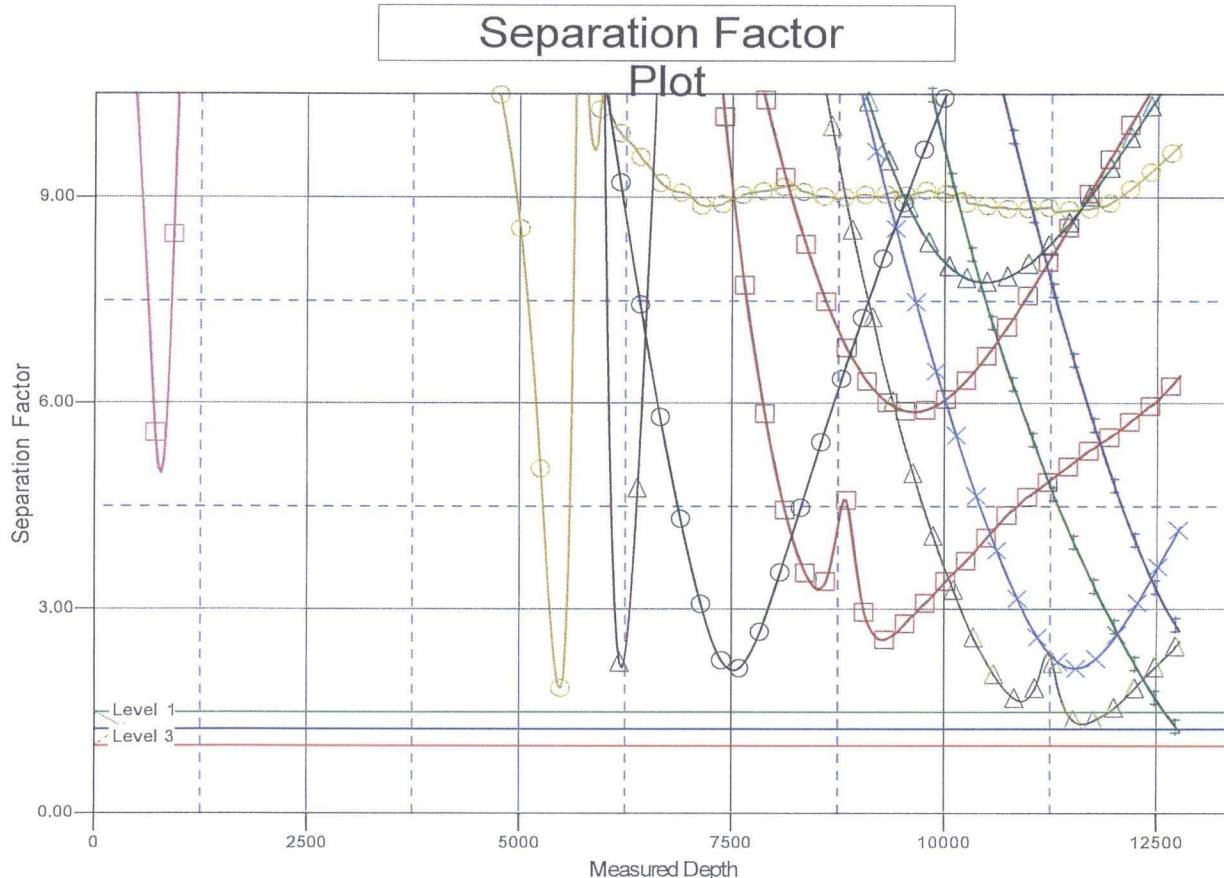
Anticollision Summary Report

Company: WPX Energy
Project: T23N R6W
Reference Site: Chaco 2306-04E
Site Error: 0.00 usft
Reference Well: NE Chaco Com #902H
Well Error: 0.00 usft
Reference Wellbore Wellbore #1
Reference Design: Plan #1 25Jun15 sam

Local Co-ordinate Reference: Well NE Chaco Com #902H (A1) - Slot A1
TVD Reference: KB @ 6896.00usft (Aztec 920)
MD Reference: KB @ 6896.00usft (Aztec 920)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: COMPASS-SANJUAN
Offset TVD Reference: Offset Datum

Reference Depths are relative to KB @ 6896.00usft (Aztec 920)
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.8333334

Coordinates are relative to: NE Chaco Com #902H (A1) - Slot A1
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico West 3003
 Grid Convergence at Surface is: 0.20°



LEGEND

Wellbore #1, Plan #25Jun15 sam V0	Chaco 2306-08E #197H, Wellbore #1, Wellbore #1 V0	RITA #5, Wellbore #1, Wellbore #1 V0
A1), Wellbore #2 ST 1, Wellbore #2 ST 1 V0	Chaco 2306-08E #198H, Wellbore #1, Wellbore #1 V0	Dever #1, Wellbore #1, Wellbore #1 V0
A1), Wellbore #1, Wellbore #1 V0	Chaco 2306-08E #266, Wellbore #1, Wellbore #1 V0	Federal 8 #1, Wellbore #1, Wellbore #1 V0
(2), Wellbore #2 ST 1, Wellbore #2 ST 1 V0	Chaco 2306-08E #267H, Wellbore #1, Wellbore #1 V0	Rita COM #4, Wellbore #1, Wellbore #1 V0
(3), Wellbore #1, Wellbore #1 V0	MARCUS #4, Wellbore #1, Wellbore #1 V0	
(4), Wellbore #1, Wellbore #1 V0	RITA #2, Wellbore #1, Wellbore #1 V0	

WPX Energy

T23N R6W

Chaco 2306-04E

NE Chaco Com #902H - Slot A1

Wellbore #1

Plan: Plan #1 25Jun15 sam

Standard Planning Report

25 June, 2015

WPX

Planning Report

Database:	COMPASS-SANJUAN	Local Co-ordinate Reference:	Well NE Chaco Com #902H (A1) - Slot A1
Company:	WPX Energy	TVD Reference:	KB @ 6896.00usft (Aztec 920)
Project:	T23N R6W	MD Reference:	KB @ 6896.00usft (Aztec 920)
Site:	Chaco 2306-04E	North Reference:	True
Well:	NE Chaco Com #902H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 25Jun15 sam		

Project	T23N R6W		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		

Site	Chaco 2306-04E		
Site Position:		Northing:	1,911,745.11 usft
From:	Lat/Long	Easting:	603,945.66 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	36.2536100
		Longitude:	-107.4807900
		Grid Convergence:	0.21 °

Well	NE Chaco Com #902H - Slot A1					
Well Position	+N/-S	164.38 usft	Northing:	1,911,888.80 usft	Latitude:	36.2540600
	+E/-W	-5,684.64 usft	Easting:	598,260.46 usft	Longitude:	-107.5000700
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,882.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/13/2014	9.31	63.01	50,150

Design	Plan #1 25Jun15 sam			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	137.94

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
550.00	0.00	0.00	550.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,164.32	12.29	269.04	1,159.62	-1.10	-65.60	2.00	2.00	0.00	269.04	
4,739.64	12.29	269.04	4,653.05	-13.91	-826.31	0.00	0.00	0.00	0.00	
5,507.58	60.00	133.27	5,300.72	-275.75	-643.11	9.00	6.21	-17.68	-139.71	Start 60 deg tan #902
5,567.58	60.00	133.27	5,330.72	-311.37	-605.27	0.00	0.00	0.00	0.00	End 60 deg tan #902
5,614.44	64.20	133.85	5,352.64	-339.90	-575.27	9.03	8.96	1.24	7.12	
5,903.76	90.29	132.66	5,416.00	-531.48	-371.44	9.03	9.02	-0.41	-2.71	POE #902H
12,769.44	90.29	132.66	5,381.00	-5,183.96	4,677.40	0.00	0.00	0.00	0.00	TD / PBHL #902H

WPX Planning Report

Database: COMPASS-SANJUAN	Local Co-ordinate Reference: Well NE Chaco Com #902H (A1) - Slot A1
Company: WPX Energy	TVD Reference: KB @ 6896.00usft (Aztec 920)
Project: T23N R6W	MD Reference: KB @ 6896.00usft (Aztec 920)
Site: Chaco 2306-04E	North Reference: True
Well: NE Chaco Com #902H	Survey Calculation Method: Minimum Curvature
Wellbore: Wellbore #1	
Design: Plan #1 25Jun15 sam	

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
320.00	0.00	0.00	320.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8" 36" J-55									
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
550.00	0.00	0.00	550.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,000.00	9.00	269.04	998.15	-0.59	-35.27	-23.18	2.00	2.00	0.00
1,164.32	12.29	269.04	1,159.62	-1.10	-65.60	-43.13	2.00	2.00	0.00
Hold 12.29 Inclination									
1,500.00	12.29	269.04	1,487.61	-2.31	-137.03	-90.08	0.00	0.00	0.00
2,000.00	12.29	269.04	1,976.16	-4.10	-243.41	-160.02	0.00	0.00	0.00
2,500.00	12.29	269.04	2,464.71	-5.89	-349.79	-229.96	0.00	0.00	0.00
3,000.00	12.29	269.04	2,953.26	-7.68	-456.18	-299.89	0.00	0.00	0.00
3,500.00	12.29	269.04	3,441.81	-9.47	-562.56	-369.83	0.00	0.00	0.00
4,000.00	12.29	269.04	3,930.36	-11.26	-668.94	-439.77	0.00	0.00	0.00
4,500.00	12.29	269.04	4,418.90	-13.05	-775.33	-509.71	0.00	0.00	0.00
4,739.64	12.29	269.04	4,653.05	-13.91	-826.31	-543.22	0.00	0.00	0.00
Start Build DLS 9.00 TFO -139.71									
5,000.00	16.04	157.56	4,908.94	-48.10	-840.48	-527.33	9.00	1.44	-42.82
5,500.00	59.33	133.39	5,296.89	-271.26	-647.87	-232.61	9.00	8.66	-4.83
5,507.58	60.00	133.27	5,300.72	-275.75	-643.11	-226.09	9.00	8.88	-1.66
Hold 60.00 Inclination									
5,567.58	60.00	133.27	5,330.72	-311.37	-605.27	-174.30	0.00	0.00	0.00
Start Build DLS 9.03 TFO 7.12									
5,614.44	64.20	133.85	5,352.64	-339.90	-575.27	-133.02	9.03	8.96	1.24
Start DLS 9.03 TFO -2.71									
5,903.76	90.29	132.66	5,415.96	-531.49	-371.43	145.78	9.03	9.02	-0.41
POE at 90.29 Inc 132.66 deg									
5,904.00	90.29	132.66	5,416.00	-531.65	-371.26	146.01	0.00	0.00	0.00
7" 23# J-55									
6,000.00	90.29	132.66	5,415.51	-596.70	-300.66	241.60	0.00	0.00	0.00
6,500.00	90.29	132.66	5,412.96	-935.52	67.02	739.48	0.00	0.00	0.00
7,000.00	90.29	132.66	5,410.41	-1,274.34	434.71	1,237.35	0.00	0.00	0.00
7,500.00	90.29	132.66	5,407.86	-1,613.16	802.40	1,735.22	0.00	0.00	0.00
8,000.00	90.29	132.66	5,405.31	-1,951.99	1,170.08	2,233.09	0.00	0.00	0.00
8,500.00	90.29	132.66	5,402.76	-2,290.81	1,537.77	2,730.96	0.00	0.00	0.00
9,000.00	90.29	132.66	5,400.22	-2,629.63	1,905.46	3,228.84	0.00	0.00	0.00
9,500.00	90.29	132.66	5,397.67	-2,968.45	2,273.14	3,726.71	0.00	0.00	0.00
10,000.00	90.29	132.66	5,395.12	-3,307.27	2,640.83	4,224.58	0.00	0.00	0.00
10,500.00	90.29	132.66	5,392.57	-3,646.09	3,008.51	4,722.45	0.00	0.00	0.00
11,000.00	90.29	132.66	5,390.02	-3,984.92	3,376.20	5,220.32	0.00	0.00	0.00
11,500.00	90.29	132.66	5,387.47	-4,323.74	3,743.89	5,718.19	0.00	0.00	0.00
12,000.00	90.29	132.66	5,384.92	-4,662.56	4,111.57	6,216.07	0.00	0.00	0.00
12,500.00	90.29	132.66	5,382.37	-5,001.38	4,479.26	6,713.94	0.00	0.00	0.00
12,769.44	90.29	132.66	5,381.00	-5,183.96	4,677.40	6,982.23	0.00	0.00	0.00
TD at 12769.44									

WPX

Planning Report

Database:	COMPASS-SANJUAN	Local Co-ordinate Reference:	Well NE Chaco Com #902H (A1) - Slot A1
Company:	WPX Energy	TVD Reference:	KB @ 6896.00usft (Aztec 920)
Project:	T23N R6W	MD Reference:	KB @ 6896.00usft (Aztec 920)
Site:	Chaco 2306-04E	North Reference:	True
Well:	NE Chaco Com #902H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 25Jun15 sam		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
Start 60 deg tan #902H	0.00	0.00	5,300.72	-275.75	-643.11	1,911,610.84	597,618.30	36.2533024	-107.5022512
- plan hits target center									
- Point									
End 60 deg tan #902H	0.00	0.00	5,330.72	-313.58	-607.90	1,911,573.13	597,653.64	36.2531985	-107.5021318
- plan misses target center by 3.42usft at 5567.23usft MD (5330.55 TVD, -311.16 N, -605.49 E)									
- Point									
TD / PBHL #902H	0.00	0.00	5,381.00	-5,183.96	4,677.40	1,906,720.96	602,955.67	36.2398180	-107.4842090
- plan hits target center									
- Point									
POE #902H	0.00	0.00	5,416.00	-531.48	-371.44	1,911,356.04	597,890.85	36.2525999	-107.5013298
- plan misses target center by 0.04usft at 5903.76usft MD (5415.96 TVD, -531.49 N, -371.43 E)									
- Point									

Casing Points					
Measured Depth	Vertical Depth			Casing Diameter	Hole Diameter
(usft)	(usft)	Name		(in)	(in)
320.00	320.00	9 5/8" 36" J-55		9.62	12.25
5,904.00	5,416.00	7" 23# J-55		7.00	8.75

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
(usft)	(usft)	(usft)	(usft)		
550.00	550.00	0.00	0.00	Start Build 2.00	
1,164.32	1,159.62	-1.10	-65.60	Hold 12.29 Inclination	
4,739.64	4,653.05	-13.91	-826.31	Start Build DLS 9.00 TFO -139.71	
5,507.58	5,300.72	-275.75	-643.11	Hold 60.00 Inclination	
5,567.58	5,330.72	-311.37	-605.27	Start Build DLS 9.03 TFO 7.12	
5,614.44	5,352.64	-339.90	-575.27	Start DLS 9.03 TFO -2.71	
5,903.76	5,415.96	-531.49	-371.43	POE at 90.29 Inc 132.68 deg	
12,769.44	5,381.00	-5,183.96	4,677.40	TD at 12769.44	