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OCT 06 2015

Form 3160-5
(February 2005)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Farmington Field Office
Bureau of Land Management

FORM 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.

1. Type of Well		5. Lease Serial No. NMSF0078362
☒ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator WPX Energy Production, LLC		7. If Unit of CA/Agreement, Name and/or No. NMNM 132829
3a. Address PO Box 640 Aztec, NM 87410		8. Well Name and No. NE Chaco Com 912H
3b. Phone No. (include area code) 505-333-1816		9. API Well No. 30-039-31298
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SHL: 2425' FNL & 231' FWL SEC 5 T23N 6W BHL: 950' FNL & 330' FEL SEC 8 T23N 6W		10. Field and Pool or Exploratory Area Chaco Unit NE HZ
		11. Country or Parish, State Rio Arriba, 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	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other NAME/LATERAL CHANGE
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple 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 recomple 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 request to change the well name from the NE CHACO COM #263H to NE CHACO COM #912H and to change the lateral orientation. Attached are the updated directional plan, ops and C102.

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

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

CONFIDENTIAL

OIL CONS. DIV DIST. 3

OCT 26 2015

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) LACEY GRANILLO		Title Permit Tech III
Signature		Date 10/6/15
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by Abdelgadir Elmadaoui		Title PE
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.		Date 10/21/15
		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)

NMOCD

RV

ADHERE TO PREVIOUS NMOCD CONDITIONS OF APPROVAL

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to
Appropriate District Office

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 30-039-31298		*Pool Code 98088	*Pool Name CHACO UNIT NE HZ (OIL)
*Property Code 313800	*Property Name NE CHACO COM		*Well Number 912H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6882'

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
E	5	23N	6W		2425	NORTH	231	WEST	RIO ARriba

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
A	8	23N	6W		950	NORTH	330	EAST	RIO ARriba
¹² Dedicated Acres 960.56		Entire Section 5 N/2 - Section 8			¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-13817-A		

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

POINT-OF-ENTRY
2015' FNL 341' FNL
SECTION 5, T23N, R6W
LAT: 36.255128°N
LONG: 107.499720°W
DATUM: NAD1927

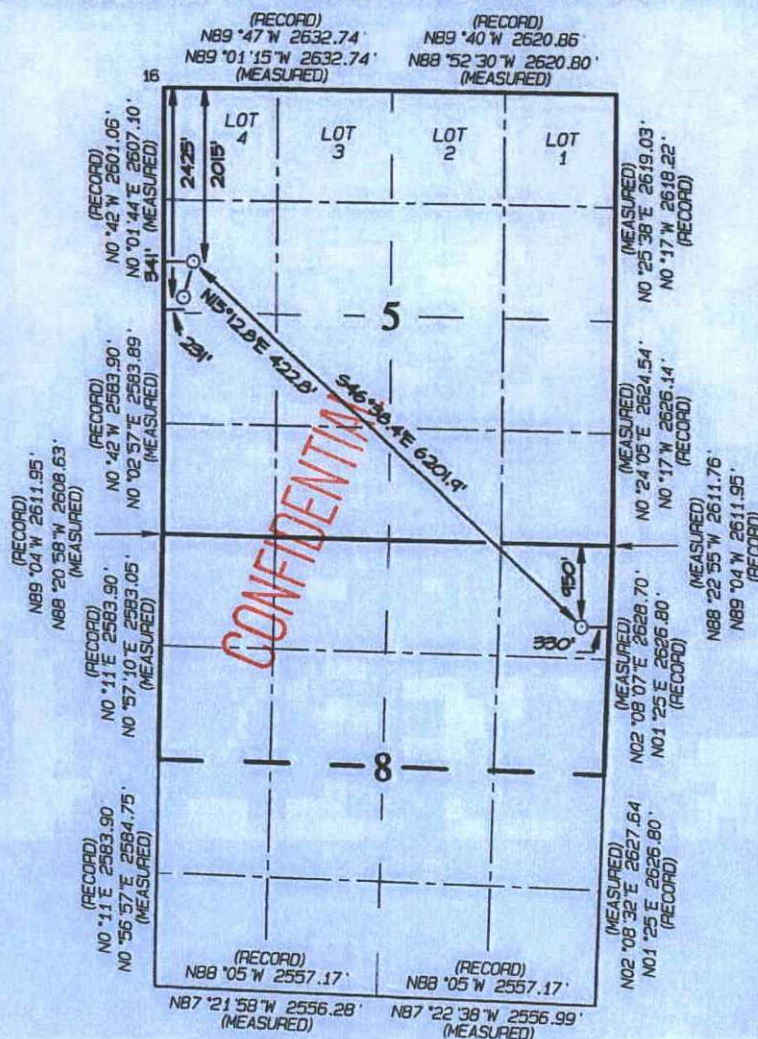
LAT: 36.255141°N
LONG: 107.500325°W
DATUM: NAD1983

SURFACE LOCATION
2425' FNL 231' FNL
SECTION 5, T23N, R6W
LAT: 36.254004°N
LONG: 107.500078°W
DATUM: NAD1927

LAT: 36.254017°N
LONG: 107.500683°W
DATUM: NAD1983

END-OF-LATERAL
950' FNL 330' FEL
SECTION 8, T23N, R6W
LAT: 36.243592°N
LONG: 107.484246°W
DATUM: NAD1927

LAT: 36.243606°N
LONG: 107.484850°W
DATUM: NAD1983



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

LACEY GRANILLO

Date

10/16/15

Printed Name

LACEY.GRANILLO@WPXENERGY.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.

Date Revised: OCTOBER 5, 2015
Survey Date: DECEMBER 17, 2013

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number

15269



WPX Energy

Operations Plan

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

DATE: October 6, 2015 **FIELD:** Chaco Unit NE HZ (OIL)
WELL NAME: NE Chaco COM 912H **SURFACE:** BLM
SH Location: SWNW Sec 5-23N-06W **ELEVATION:** 6882' GR
BH Location: NENE Sec 8-23N-06W **MINERALS:** FED

MEASURED DEPTH: 12,161.83

I. GEOLOGY: SURFACE FORMATION - San Jose

A. FORMATION TOPS (KB)

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	1484	1474	POINT LOOKOUT	4439	4332
KIRTLAND	1800	1780	MANCOS	4679	4564
PICTURED CLIFFS	1483	2073	GALLUP	5102	4979
LEWIS	2203	2170	KICKOFF POINT	4,740.13	4,622.99
CHACRA	2556	2511	TOP TARGET	5807	5424
CLIFF HOUSE	3682	3600	LANDING POINT	6855	5440
MENEFEE	3723	3639	BASE TARGET	6855	5440
			TD	12,161.83	5,386.00

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:

CASING TYPE	OH SIZE (IN)	DEPTH (MD)	CSG SIZE	WEIGHT	GRADE	Connection
SURFACE	12.25"	320'	9.625"	36 LBS	J-55	ST&C
INTERMEDIATE	8.75"	5,960'	7"	23 LBS	K-55	LT&C
PRODUCTION	6.125"	5,810' – 12,161'	4.5"	11.6 LBS	N-80	LT&C
TIE BACK	N/A	Surf – 5,810'	4.5"	11.6 LBS	N-80	LT&C

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.

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. 13.1 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. PROD. 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™ System. Yield 1.36 cuft/sk 13.3 ppg (622 sx /846 cuft /151 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/- 140 bbl Fr Water. Total Cement (622 sx /846bbls).

I. COMPLETION

A. CBL

Run CCL for perforating

A. 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.

B. 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.

C. 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:

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.

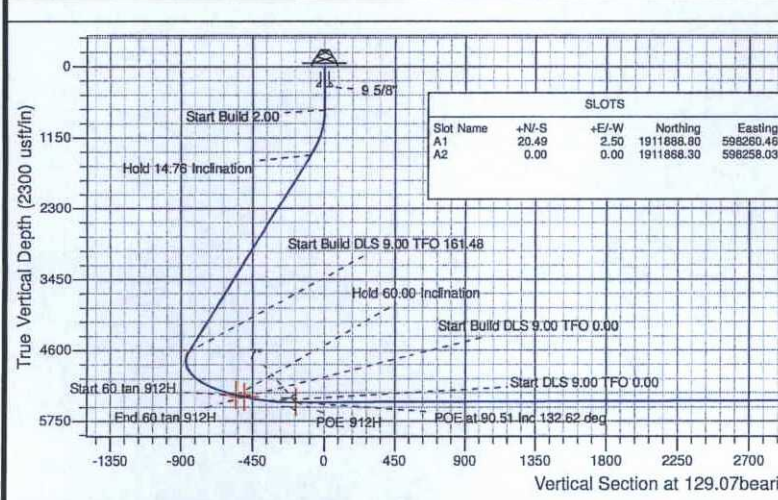
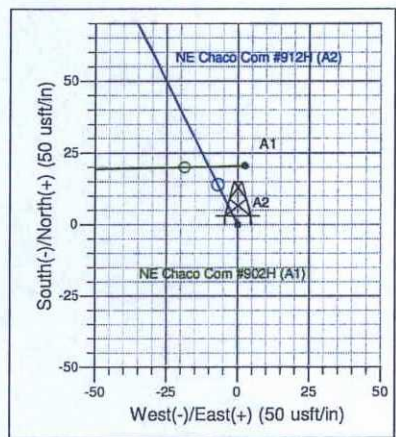
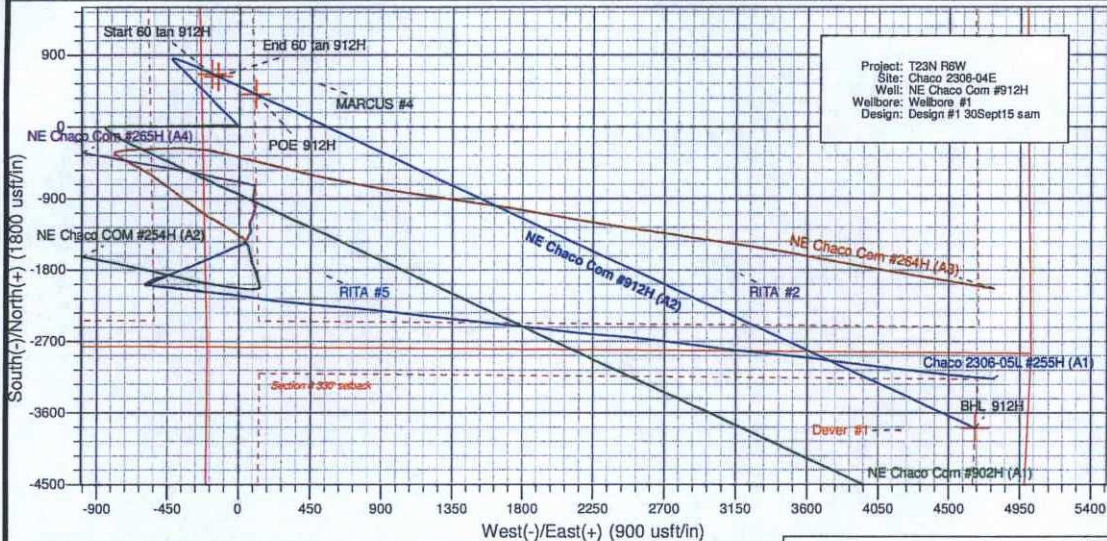
After cementing and TOL clean up operations are complete, the TOL will be tested to 1500 psi (per BLM).

No Tie back string will be ran in this well. All stimulation will be performed down the 7" casing.



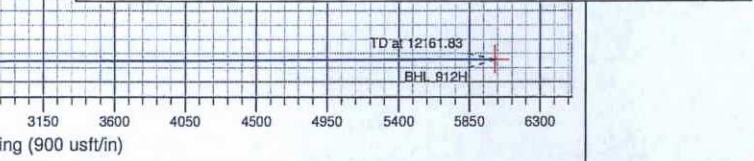
Well Name: NE Chaco Com #912H
 Surface Location: Chaco 2306-04E
 NAD 1927 (NADCON CONUS) , US State Plane 1927 (Exact solution) New Mexico West 3003
 Ground Elevation: 6882.00
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.00 0.00 1911868.30 598258.03 36.254004 -107.500078 A2
 KB @ 6896.00usft (Aztec 920)

Azimuths to True North
 Magnetic North: 9.20°
 Magnetic Field
 Strength: 50063.3nT
 Dip Angle: 62.99°
 Date: 9/30/2015
 Model: IGRF2010



DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
Start 60 tan 912H	5325.73	663.90	-170.94	1912531.61	598084.81	36.255828	-107.500658	Point	
End 60 tan 912H	5355.73	628.72	-132.70	1912496.56	598123.17	36.255731	-107.500529	Point	
POE 912H	5441.00	409.36	105.69	1912278.02	598362.31	36.255128	-107.499720	Point	
BHL 912H	5386.00	-3789.59	4668.90	1908094.79	602939.94	36.243592	-107.484246	Point	

ANNOTATIONS									
TVD	MD	Inc	Ad	+N/-S	+E/-W	V/Sect	Departure	Annotation	
700.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00	
1430.00	1438.14	14.76	333.25	84.45	-42.57	-86.27	94.57	Hold 14.76 Inclination	
4622.99	4740.13	14.76	333.25	835.80	-421.28	-853.82	935.97	Start Build DLS 9.00 TFO 161.48	
5325.73	5561.47	60.00	132.62	663.90	-170.94	-551.11	1421.77	Hold 60.00 Inclination	
5355.73	5621.47	60.00	132.62	628.72	-132.70	-459.25	1473.73	Start Build DLS 9.00 TFO 0.00	
5419.13	5787.35	74.93	132.62	525.27	-20.28	-346.77	1828.51	Start DLS 9.00 TFO 0.00	
5441.00	5960.45	90.51	132.62	409.36	105.69	-175.92	1797.69	POE at 90.51 Inc 132.62 deg	
5386.00	12161.83	90.51	132.62	-3789.59	4668.90	6013.29	7998.83	TD at 12161.83	





WPX Energy

T23N R6W

Chaco 2306-04E

NE Chaco Com #912H - Slot A2

Wellbore #1

Plan: Design #1 30Sept15 sam

Standard Planning Report

30 September, 2015

WPX

Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well NE Chaco Corn #912H (A2) - Slot A2
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 Corn #912H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 30Sept15 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:	13.200 in
		Latitude:	36.253610
		Longitude:	-107.480790
		Grid Convergence:	0.21 °

Well	NE Chaco Corn #912H - Slot A2		
Well Position	+N/-S	143.89 usft	Northing:
	+E/-W	-5,687.14 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	36.254004
		Longitude:	-107.500079
		Ground Level:	6,882.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	9/30/2015	9.20
			Dip Angle (°)
			62.99
			Field Strength (nT)
			50,063

Design	Design #1 30Sept15 sam		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction (bearing)
			129.07

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	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	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,438.14	14.76	333.25	1,430.00	84.45	-42.57	2.00	2.00	0.00	333.25	
4,740.13	14.76	333.25	4,622.99	835.80	-421.28	0.00	0.00	0.00	0.00	
5,561.47	60.00	132.62	5,325.73	663.90	-170.94	9.00	5.51	19.40	161.48	Start 60 tan 912H
5,621.47	60.00	132.62	5,355.73	628.72	-132.70	0.00	0.00	0.00	0.00	End 60 tan 912H
5,787.35	74.93	132.62	5,419.13	525.27	-20.28	9.00	9.00	0.00	0.00	
5,960.45	90.51	132.62	5,441.00	409.36	105.69	9.00	9.00	0.00	0.00	POE 912H
12,161.83	90.51	132.62	5,386.00	-3,789.59	4,668.90	0.00	0.00	0.00	0.00	BHL 912H

WPX
Planning Report

Database: COMPASS
Company: WPX Energy
Project: T23N R6W
Site: Chaco 2306-04E
Well: NE Chaco Com #912H
Wellbore: Wellbore #1
Design: Design #1 30Sept15 sam

Local Co-ordinate Reference: Well NE Chaco Com #912H (A2) - Slot A2
TVD Reference: KB @ 6896.00usft (Aztec 920)
MD Reference: KB @ 6896.00usft (Aztec 920)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	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"									
500.00	0.00	0.00	500.00	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
Start Build 2.00									
1,000.00	6.00	333.25	999.45	14.01	-7.06	-14.32	2.00	2.00	0.00
1,438.14	14.76	333.25	1,430.00	84.45	-42.57	-86.27	2.00	2.00	0.00
Hold 14.76 Inclination									
1,500.00	14.76	333.25	1,489.82	98.52	-49.66	-100.65	0.00	0.00	0.00
2,000.00	14.76	333.25	1,973.31	212.30	-107.01	-216.87	0.00	0.00	0.00
2,500.00	14.76	333.25	2,456.81	326.07	-164.35	-333.10	0.00	0.00	0.00
3,000.00	14.76	333.25	2,940.30	439.84	-221.70	-449.33	0.00	0.00	0.00
3,500.00	14.76	333.25	3,423.80	553.62	-279.05	-565.55	0.00	0.00	0.00
4,000.00	14.76	333.25	3,907.29	667.39	-336.39	-681.78	0.00	0.00	0.00
4,500.00	14.76	333.25	4,390.79	781.16	-393.74	-798.00	0.00	0.00	0.00
4,740.13	14.76	333.25	4,622.99	835.80	-421.28	-853.82	0.00	0.00	0.00
Start Build DLS 9.00 TFO 161.48									
5,000.00	10.44	109.15	4,880.00	857.96	-413.84	-862.01	9.00	-1.66	52.30
5,500.00	54.49	131.98	5,292.49	698.69	-209.15	-602.71	9.00	8.81	4.57
5,561.47	60.00	132.62	5,325.73	663.90	-170.94	-551.11	9.00	8.96	1.03
Hold 60.00 Inclination									
5,621.47	60.00	132.62	5,355.73	628.72	-132.70	-499.25	0.00	0.00	0.00
Start Build DLS 9.00 TFO 0.00									
5,787.35	74.93	132.62	5,419.13	525.27	-20.28	-346.77	9.00	9.00	0.00
Start DLS 9.00 TFO 0.00									
5,960.00	90.47	132.62	5,441.00	409.67	105.36	-176.37	9.00	9.00	0.00
7"									
5,960.45	90.51	132.62	5,441.00	409.36	105.69	-175.92	9.00	9.00	0.00
POE at 90.51 Inc 132.62 deg									
6,000.00	90.51	132.62	5,440.65	382.58	134.79	-136.45	0.00	0.00	0.00
6,500.00	90.51	132.62	5,436.21	44.03	502.71	362.57	0.00	0.00	0.00
7,000.00	90.51	132.62	5,431.78	-294.52	870.63	861.59	0.00	0.00	0.00
7,500.00	90.51	132.62	5,427.35	-633.07	1,238.55	1,360.61	0.00	0.00	0.00
8,000.00	90.51	132.62	5,422.91	-971.62	1,606.47	1,859.63	0.00	0.00	0.00
8,500.00	90.51	132.62	5,418.48	-1,310.17	1,974.38	2,358.64	0.00	0.00	0.00
9,000.00	90.51	132.62	5,414.04	-1,648.72	2,342.30	2,857.66	0.00	0.00	0.00
9,500.00	90.51	132.62	5,409.61	-1,987.27	2,710.22	3,356.68	0.00	0.00	0.00
10,000.00	90.51	132.62	5,405.17	-2,325.82	3,078.14	3,855.70	0.00	0.00	0.00
10,500.00	90.51	132.62	5,400.74	-2,664.37	3,446.06	4,354.72	0.00	0.00	0.00
11,000.00	90.51	132.62	5,396.30	-3,002.92	3,813.98	4,853.74	0.00	0.00	0.00
11,500.00	90.51	132.62	5,391.87	-3,341.47	4,181.90	5,352.76	0.00	0.00	0.00
12,000.00	90.51	132.62	5,387.44	-3,680.02	4,549.82	5,851.77	0.00	0.00	0.00
12,161.83	90.51	132.62	5,386.00	-3,789.59	4,668.90	6,013.29	0.00	0.00	0.00
TD at 12161.83									

WPX Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well NE Chaco Com #912H (A2) - Slot A2
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 #912H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 30Sept15 sam		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Start 60 tan 912H - plan hits target center - Point	0.00	0.00	5,325.73	663.90	-170.94	1,912,531.61	598,084.81	36.255828	-107.500659
End 60 tan 912H - plan hits target center - Point	0.00	0.00	5,355.73	628.72	-132.70	1,912,496.56	598,123.17	36.255731	-107.500529
BHL 912H - plan hits target center - Point	0.00	0.00	5,386.00	-3,789.59	4,668.90	1,908,094.79	602,939.94	36.243592	-107.484246
POE 912H - plan hits target center - Point	0.00	0.00	5,441.00	409.36	105.69	1,912,278.02	598,362.31	36.255128	-107.499720

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (in)	Hole Diameter (in)
320.00	320.00	9 5/8"		9.625	12.250
5,960.00	5,441.00	7"		7.000	8.750

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
700.00	700.00	0.00	0.00	Start Build 2.00	
1,438.14	1,430.00	84.45	-42.57	Hold 14.76 Inclination	
4,740.13	4,622.99	835.80	-421.28	Start Build DLS 9.00 TFO 161.48	
5,561.47	5,325.73	663.90	-170.94	Hold 60.00 Inclination	
5,621.47	5,355.73	628.72	-132.70	Start Build DLS 9.00 TFO 0.00	
5,787.35	5,419.13	525.27	-20.28	Start DLS 9.00 TFO 0.00	
5,960.45	5,441.00	409.36	105.69	POE at 90.51 Inc 132.62 deg	
12,161.83	5,386.00	-3,789.59	4,668.90	TD at 12161.83	



WPX Energy

T23N R6W

Chaco 2306-04E

NE Chaco Com #912H

Wellbore #1

Design #1 30Sept15 sam

Anticollision Summary Report

30 September, 2015

WPX

Anticollision Summary Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco Com #912H (A2) - Slot A2
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 #912H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	COMPASS
Reference Design:	Design #1 30Sept15 sam	Offset TVD Reference:	Offset Datum

Reference	Design #1 30Sept15 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 9/30/2015			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	12,161.83	Design #1 30Sept15 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						
Chaco 2306-04E						
NE Chaco Com #902H (A1) - Wellbore #1 - Plan #2 18Sep	827.56	827.05	20.13	16.69	5.852	CC
NE Chaco Com #902H (A1) - Wellbore #1 - Plan #2 18Sep	840.00	839.40	20.15	16.65	5.758	ES
NE Chaco Com #902H (A1) - Wellbore #1 - Plan #2 18Sep	12,161.83	11,856.45	1,002.90	674.47	3.054	SF
Chaco 2306-05L						
Chaco 2306-05L #255H (A1) - Wellbore #1 - Wellbore #1	52.00	0.00	1,464.99	1,464.95	10,000.000	CC
Chaco 2306-05L #255H (A1) - Wellbore #1 - Wellbore #1	180.00	122.29	1,465.16	1,464.70	3,178.181	ES
Chaco 2306-05L #255H (A1) - Wellbore #1 - Wellbore #1	8,220.00	6,018.00	2,011.75	1,930.86	24.871	SF
Chaco 2306-05L #255H (A1) - Wellbore #2 ST 1 - Wellbore	10,894.52	9,797.45	196.37	122.35	2.653	CC
Chaco 2306-05L #255H (A1) - Wellbore #2 ST 1 - Wellbore	11,220.00	10,084.71	248.33	80.97	1.484	Level 3, ES
Chaco 2306-05L #255H (A1) - Wellbore #2 ST 1 - Wellbore	11,280.00	10,134.38	267.36	84.77	1.464	Level 3, SF
NE Chaco COM #254H (A2) - Wellbore #1 - Wellbore #1	532.92	481.00	1,441.16	1,439.15	717.474	CC, ES
NE Chaco COM #254H (A2) - Wellbore #1 - Wellbore #1	8,580.00	792.00	4,996.39	4,961.26	142.236	SF
NE Chaco COM #254H (A2) - Wellbore #2 ST 1 - Wellbore	416.94	364.58	1,441.37	1,439.87	959.875	CC
NE Chaco COM #254H (A2) - Wellbore #2 ST 1 - Wellbore	450.00	390.85	1,441.46	1,439.83	883.130	ES
NE Chaco COM #254H (A2) - Wellbore #2 ST 1 - Wellbore	8,250.00	5,043.00	1,930.40	1,853.52	25.110	SF
NE Chaco Com #264H (A3) - Wellbore #1 - Wellbore #1	8,033.55	8,108.03	199.20	156.82	4.701	CC
NE Chaco Com #264H (A3) - Wellbore #1 - Wellbore #1	8,220.00	8,276.47	215.48	152.96	3.447	ES
NE Chaco Com #264H (A3) - Wellbore #1 - Wellbore #1	8,610.00	8,635.78	313.74	197.85	2.707	SF
NE Chaco Com #265H (A4) - Wellbore #1 - Wellbore #1	6,637.62	5,295.00	887.51	843.15	20.008	CC
NE Chaco Com #265H (A4) - Wellbore #1 - Wellbore #1	6,660.00	5,295.00	887.79	842.89	19.771	ES
NE Chaco Com #265H (A4) - Wellbore #1 - Wellbore #1	6,900.00	5,231.00	921.37	872.75	18.949	SF
Section 04 offsets						
Lough Erne #1 - Wellbore #1 - Wellbore #1						Out of range
Section 05 offsets						
MARCUS #4 - Wellbore #1 - Wellbore #1	6,166.66	5,538.31	363.74	235.49	2.836	CC, ES
MARCUS #4 - Wellbore #1 - Wellbore #1	6,180.00	5,538.19	363.99	235.57	2.834	SF
RITA #2 - Wellbore #1 - Wellbore #1	9,756.32	5,284.47	416.88	172.96	1.709	CC, ES
RITA #2 - Wellbore #1 - Wellbore #1	9,780.00	5,284.26	417.55	173.04	1.708	SF
RITA #5 - Wellbore #1 - Wellbore #1	7,833.21	5,348.53	1,377.59	1,193.00	7.463	CC
RITA #5 - Wellbore #1 - Wellbore #1	7,860.00	5,348.29	1,377.85	1,192.67	7.441	ES
RITA #5 - Wellbore #1 - Wellbore #1	8,010.00	5,346.96	1,388.89	1,200.84	7.386	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 #912H (A2) - Slot A2
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 #912H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	COMPASS
Reference Design:	Design #1 30Sept15 sam	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance		Separation Factor	Warning
			Between Centres (usft)	Between Ellipses (usft)		
Section 06 offsets						
GRACE FEDERAL #6-1R - Wellbore #1 - Wellbore #1	3,410.91	3,335.00	3,401.43	3,301.18	33.928	CC
GRACE FEDERAL #6-1R - Wellbore #1 - Wellbore #1	4,410.00	4,300.85	3,411.02	3,292.14	28.693	ES
GRACE FEDERAL #6-1R - Wellbore #1 - Wellbore #1	5,340.00	5,181.44	3,492.35	3,358.77	26.144	SF
GRACE FEDERAL 6 - #2 - Wellbore #1 - Wellbore #1						Out of range
GRACE FEDERAL-6 #1 - Wellbore #1 - Wellbore #1	3,717.04	3,656.72	3,728.10	3,552.71	21.257	CC
GRACE FEDERAL-6 #1 - Wellbore #1 - Wellbore #1	4,740.00	4,646.06	3,737.20	3,543.16	19.260	ES
GRACE FEDERAL-6 #1 - Wellbore #1 - Wellbore #1	5,250.00	5,201.00	3,795.38	3,591.78	18.642	SF
MARCUS #2 - Wellbore #1 - Wellbore #1	690.00	667.00	2,173.57	2,073.08	21.629	CC
MARCUS #2 - Wellbore #1 - Wellbore #1	1,200.00	1,174.47	2,174.79	2,071.69	21.092	ES
MARCUS #2 - Wellbore #1 - Wellbore #1	5,760.00	5,388.67	2,443.18	2,276.62	14.668	SF
MARCUS #5 - Wellbore #1 - Wellbore #1	4,838.54	4,815.70	4,355.20	4,208.12	29.611	CC
MARCUS #5 - Wellbore #1 - Wellbore #1	4,860.00	4,837.04	4,355.44	4,207.96	29.532	ES
MARCUS #5 - Wellbore #1 - Wellbore #1	5,190.00	5,155.63	4,418.59	4,265.94	28.946	SF
MARCUS A #2 - Wellbore #1 - Wellbore #1	4,808.10	4,735.59	1,855.98	1,746.42	16.939	CC
MARCUS A #2 - Wellbore #1 - Wellbore #1	4,830.00	4,757.26	1,856.18	1,746.15	16.870	ES
MARCUS A #2 - Wellbore #1 - Wellbore #1	5,130.00	5,050.95	1,896.54	1,781.01	16.416	SF
MARCUS A #5 (RINCON 7) - Wellbore #1 - Wellbore #1	4,924.62	4,998.18	1,109.76	969.37	7.904	CC
MARCUS A #5 (RINCON 7) - Wellbore #1 - Wellbore #1	4,950.00	5,023.43	1,110.21	969.13	7.869	ES
MARCUS A #5 (RINCON 7) - Wellbore #1 - Wellbore #1	5,070.00	5,140.95	1,124.43	980.24	7.798	SF
RINCON 8 - Wellbore #1 - Wellbore #1	4,861.20	4,807.43	2,985.67	2,864.39	24.618	CC
RINCON 8 - Wellbore #1 - Wellbore #1	4,890.00	4,836.12	2,986.21	2,864.20	24.475	ES
RINCON 8 - Wellbore #1 - Wellbore #1	5,190.00	5,124.87	3,054.59	2,926.16	23.783	SF
Section 08 offsets						
Dever #1 - Wellbore #1 - Wellbore #1	11,833.98	5,285.91	342.45	29.53	1.094	Level 2, CC, ES, SF
Federal 8 #1 - Wellbore #1 - Wellbore #1	12,161.83	5,354.18	2,141.59	1,896.79	8.748	CC, ES, SF
Marcus A 1 - Wellbore #1 - Wellbore #1	10,784.39	5,326.40	4,702.11	4,465.85	19.902	CC
Marcus A 1 - Wellbore #1 - Wellbore #1	10,890.00	5,325.46	4,703.30	4,464.50	19.696	ES
Marcus A 1 - Wellbore #1 - Wellbore #1	12,120.00	5,314.55	4,888.11	4,625.49	18.613	SF
Rita COM #4 - Wellbore #1 - Wellbore #1	10,453.30	5,316.34	2,765.81	2,537.98	12.139	CC
Rita COM #4 - Wellbore #1 - Wellbore #1	10,530.00	5,315.66	2,766.88	2,537.26	12.050	ES
Rita COM #4 - Wellbore #1 - Wellbore #1	10,950.00	5,311.93	2,810.06	2,572.49	11.828	SF

WPX

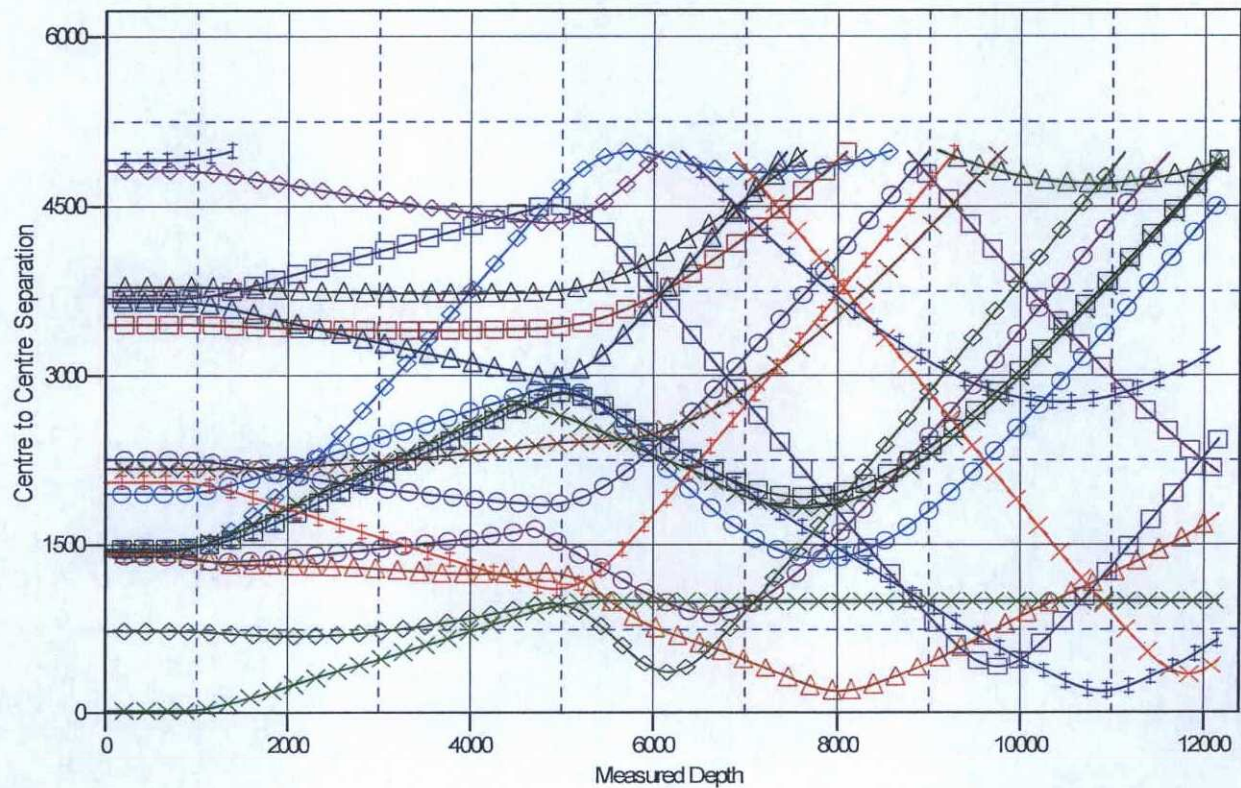
Anticollision Summary Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco Com #912H (A2) - Slot A2
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 #912H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	COMPASS
Reference Design:	Design #1 30Sept15 sam	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 -107.833334

Coordinates are relative to: NE Chaco Com #912H (A2) - Slot A2
Coordinate System is US State Plane 1927 (Exact solution), New Mexico West 3003
Grid Convergence at Surface is: 0.20°

Ladder Plot



LEGEND

1) Wellbore #1, Plan #2 18Sep15 sam V0	MARCUS #4, Wellbore #1, Wellbore #1 V0	MARCUS A #2, Wellbore #1, Wellbore #1 V0
A1), Wellbore #1, Wellbore #1 V0	RITA #2, Wellbore #1, Wellbore #1 V0	MARCUS A #5 (RINCON 7), Wellbore #1, Wellbore #1 V0
A1), Wellbore #2 ST 1, Wellbore #2 ST 1 V0	RITA #5, Wellbore #1, Wellbore #1 V0	RINCON 8, Wellbore #1, Wellbore #1 V0
2), Wellbore #1, Wellbore #1 V0	GRACE FEDERAL #6-1R, Wellbore #1, Wellbore #1 V0	Dever #1, Wellbore #1, Wellbore #1 V0
2), Wellbore #2 ST 1, Wellbore #2 ST 1 V0	GRACE FEDERAL #6 #1, Wellbore #1, Wellbore #1 V0	Federal 8 #1, Wellbore #1, Wellbore #1 V0
3) Wellbore #1, Wellbore #1 V0	MARCUS #2, Wellbore #1, Wellbore #1 V0	Marcus A 1, Wellbore #1, Wellbore #1 V0
4) Wellbore #1, Wellbore #1 V0	MARCUS #5, Wellbore #1, Wellbore #1 V0	Rita COM #4, Wellbore #1, Wellbore #1 V0

WPX

Anticollision Summary Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well NE Chaco Com #912H (A2) - Slot A2
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 #912H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	COMPASS
Reference Design:	Design #1 30Sept15 sam	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 -107.833334

Coordinates are relative to: NE Chaco Com #912H (A2) - Slot A2
Coordinate System is US State Plane 1927 (Exact solution), New Mexico West 3003
Grid Convergence at Surface is: 0.20°

