

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised August 1, 2011

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-043-21166
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator WPX Energy Production, LLC		6. State Oil & Gas Lease No. V09210
3. Address of Operator P. O. Box 640, Aztec, NM 87410 (505) 333-1808		7. Lease Name or Unit Agreement Name Chaco 2206-16I
4. Well Location Unit Letter <u>I</u> : <u>1478'</u> feet from the <u>SOUTH</u> line and <u>280'</u> feet from the <u>EAST</u> line Section <u>16</u> Township <u>22N</u> Range <u>6W</u> NMPM County <u>Sandoval</u>		8. Well Number <u>#905H</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 7194' GR		9. OGRID Number 120782
		10. Pool name or Wildcat Lybrook Gallup

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ **CHANGE PLANS** ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

WPX Energy request to change the lateral on the Directional Drill & OPS plan for the above well.

Attached: C-102 package, Directional Drill & OPS Plan.

OIL CONS. DIV DIST. 3

AUG 07 2015

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Marie E. Jaramillo TITLE Permit Tech DATE 8/6/15

Type or print name Marie E. Jaramillo E-mail address: marie.jaramillo@wpxenergy.com PHONE: (505) 333-1808
For State Use Only

APPROVED BY: Charles TITLE SUPERVISOR DISTRICT #3 DATE AUG 21 2015
Conditions of Approval (if any): AV

NSL # 7024

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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

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-043-21166	*Pool Code 42289	*Pool Name LYBROOK GALLUP
*Property Code 39969	*Property Name CHACO 2206-16I	*Well Number 905H
*OGRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC	*Elevation 7194

¹⁰ Surface Location

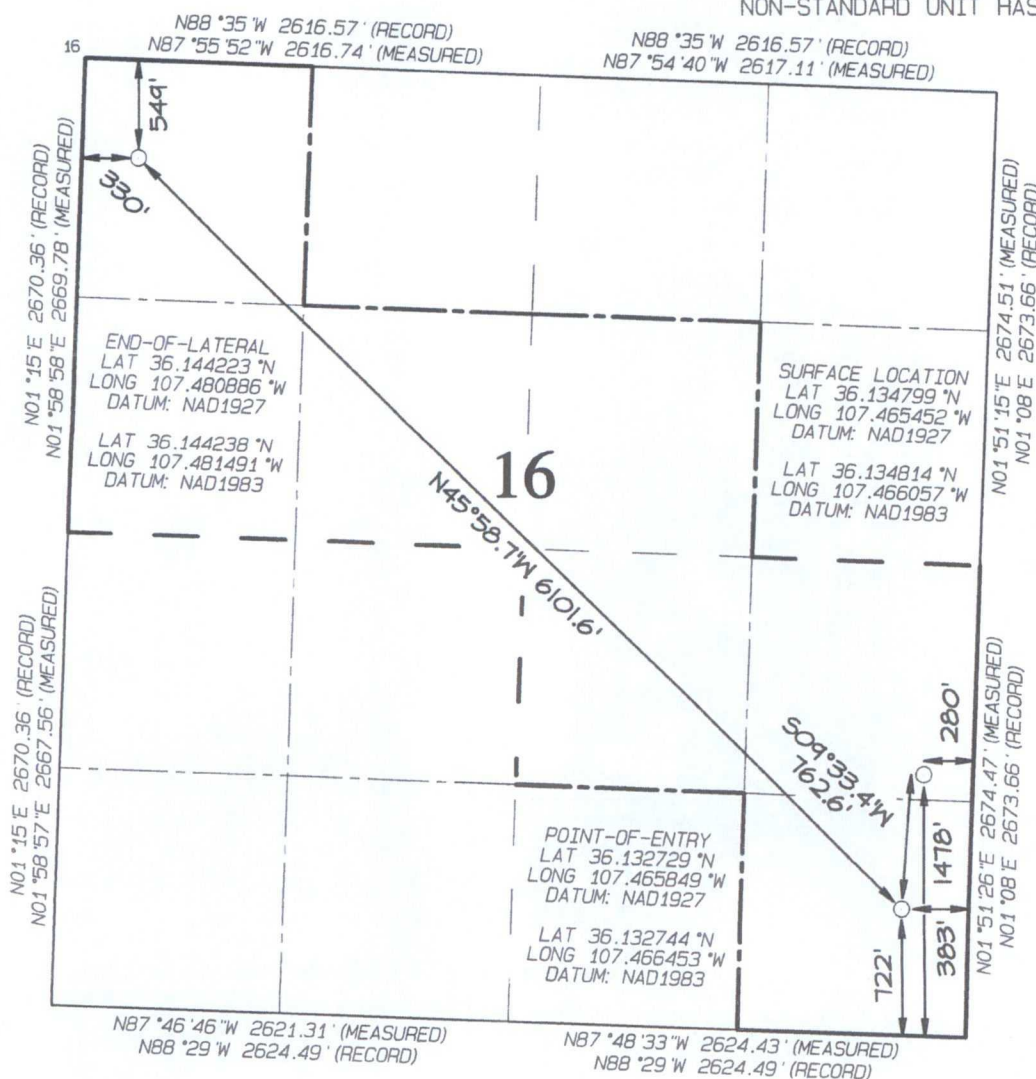
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	16	22N	6W		1478	SOUTH	280	EAST	SANDOVAL

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
D	16	22N	6W		549	NORTH	330	WEST	SANDOVAL

¹² Dedicated Acres 280.0 NW/4 NW/4, S/2 NW/4 SW/4 NE/4, N/2 SE/4 SE/4 SE/4 Section 16	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No R-13817-A
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETE			

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 Walter A. Carter Date 8/6/15

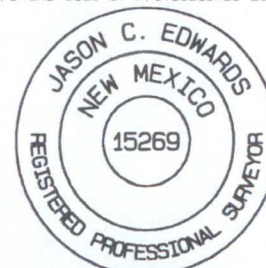
Marie E. Jaramillo
Printed Name
marie.jaramillo@wpenergy.com
E-mail Address

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.

Date Revised: AUGUST 5, 2015
Date of Survey: JUNE 21, 2012

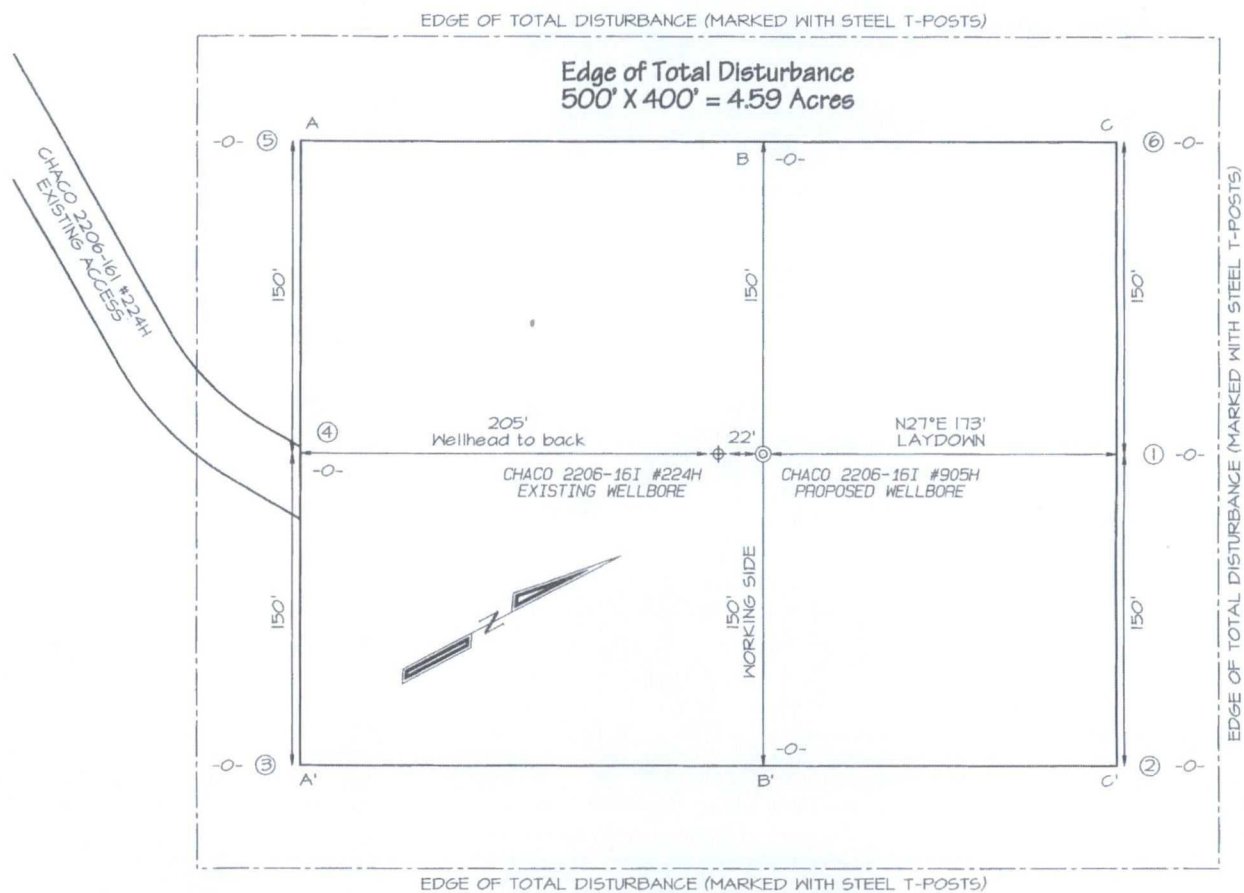
Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number	15269
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WPX ENERGY PRODUCTION, LLC CHACO 2206-16I #905H
 1478' FSL & 280' FEL, SECTION 16, T22N, R6W, NMPM
 SANDOVAL COUNTY, NEW MEXICO ELEVATION: 7194'
 LAT: 36.134814°N LONG: 107.466057°W DATUM: NAD1983



~ SURFACE OWNER ~
 State of New Mexico Land



Steel T-Posts have been set to define the Edge of Disturbance limits which are 50' offset from the edge of the staked wellpad.

WPX ENERGY PRODUCTION, LLC CHACO 2206-16I #905H
1478' FSL & 280' FEL, SECTION 16, T22N, R6W, NMPM
SANDOVAL COUNTY, NEW MEXICO ELEVATION: 7194'

HORIZONTAL SCALE
1"=40'

C/L

VERTICAL SCALE
1"=30'

A-A'								
7204'								
7194'								
7184'								

C/L

B-B'								
7204'								
7194'								
7184'								

C/L

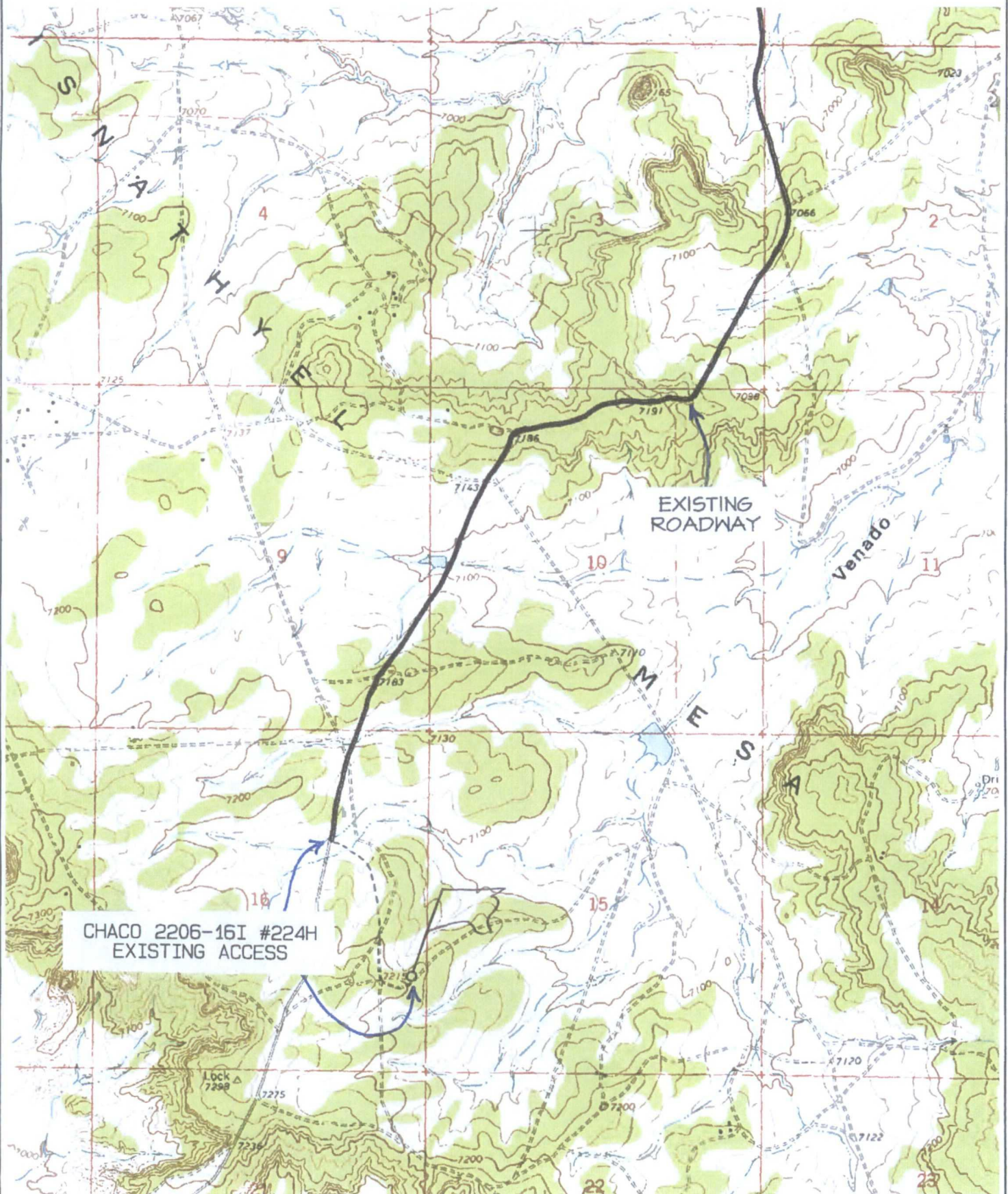
C-C'								
7204'								
7194'								
7184'								

NCE SURVEYS IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CONTACT ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND UTILITIES OR PIPELINES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.

WPX ENERGY PRODUCTION, LLC CHACO 2206-16I #905H

1478' FSL & 280' FEL, SECTION 16, T22N, R6W, N.M.P.M.
SANDOVAL COUNTY, NEW MEXICO



NAME OF TOPO MAP : COUNSELOR

⊕ PRODUCING WELL

⊗ PLUGGED & ABANDONED WELL



WPX ENERGY

Operations Plan

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

DATE: 08/06/2015

FIELD: Lybrook Gallup

WELL NAME: Chaco 2206-16I #905H

SURFACE: State

SH Location: NESE Section 16 22N-06W

ELEVATION: 7194' GR

BH Location: NWNW Section 16 22N-06W
Sandoval CO., NM

MINERALS: State

MEASURED DEPTH:

I. GEOLOGY: Surface formation – San Jose

A. FORMATION TOPS: (KB)

Name	MD	TVD	Name	MD	TVD
Ojo Alamo	1284	1276	Point Lookout	4343	4131
Kirtland	1479	1463	Mancos	4464	4244
Picture Cliffs	1853	1812	Gallup	4864	4633
Lewis	2011	1959	Kickoff Point	4412	4195
Chacra	2301	2229	Top Target	5344	4977
Cliff House	3452	3301	Landing Point	5687	5068
Menefee	3508	3353	Base Target	5687	5068
			TD	11788	5088

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"	5,687	7"	23#	K-55
Prod. Liner	6.125"	5537' - 11788'	4-1/2"	11.6#	N-80
Tie-Back String	N/A	Surf. - 5537'	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: Tie back to surface w/ 4-1/2" N-80 casing.

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™ System. Yield 1.29 cu ft/sk, 13.5 ppg, (498 sx / 677 cu ft. / 120 bbls). **Tail Spacer:** 20 BBL of MMCR. **Displacement:** Displace w/ +/- 156 bbl Fr Water. Total Cement (677 cu ft / 120 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.

WPX Energy

T22N R6W

Chaco 2206-16l

Chaco 2206-16l #905H - Slot A1

Wellbore #1

Plan: Design #1 23July15 sam

Standard Planning Report

23 July, 2015

WPX

Planning Report

Database:	San Juan	Local Co-ordinate Reference:	Well Chaco 2206-16I #905H (A1) - Slot A1
Company:	WPX Energy	TVD Reference:	KB @ 7208.00usft (Original Well Elev)
Project:	T22N R6W	MD Reference:	KB @ 7208.00usft (Original Well Elev)
Site:	Chaco 2206-16I	North Reference:	True
Well:	Chaco 2206-16I #905H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 23July15 sam		

Project	T22N 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 2206-16I			
Site Position:		Northing:	1,868,513.58 usft	Latitude:	36.1348000
From:	Lat/Long	Easting:	608,632.58 usft	Longitude:	-107.4654500
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	0.22 °

Well	Chaco 2206-16I #905H - Slot A1					
Well Position	+N/-S	0.00 usft	Northing:	1,868,513.58 usft	Latitude:	36.1348000
	+E/-W	0.00 usft	Easting:	608,632.58 usft	Longitude:	-107.4654500
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	7,194.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/20/2015	9.20	62.90	50,016

Design	Design #1 23July15 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	306.97

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	
1,619.30	21.39	160.07	1,594.64	-185.44	67.24	2.00	2.00	0.00	160.07	
4,412.34	21.39	160.07	4,195.37	-1,142.92	414.41	0.00	0.00	0.00	0.00	
5,295.34	60.00	313.65	4,952.71	-1,008.00	148.58	9.00	4.37	17.39	156.92	Start 60 deg tan #905
5,355.34	60.00	313.65	4,982.71	-972.13	110.98	0.00	0.00	0.00	0.00	End 60 deg tan #905
5,494.75	72.55	313.86	5,038.69	-884.04	18.98	9.01	9.01	0.15	0.90	
5,686.62	89.81	313.31	5,068.00	-753.84	-117.85	9.00	9.00	-0.28	-1.83	POE #905H
11,787.54	89.81	313.30	5,088.00	3,430.55	-4,557.64	0.00	0.00	0.00	-103.10	BHL #905H

WPX

Planning Report

Database:	San Juan	Local Co-ordinate Reference:	Well Chaco 2206-16I #905H (A1) - Slot A1
Company:	WPX Energy	TVD Reference:	KB @ 7208.00usft (Original Well Elev)
Project:	T22N R6W	MD Reference:	KB @ 7208.00usft (Original Well Elev)
Site:	Chaco 2206-16I	North Reference:	True
Well:	Chaco 2206-16I #905H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 23July15 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	160.07	998.15	-33.16	12.02	-29.55	2.00	2.00	0.00
1,500.00	19.00	160.07	1,482.68	-146.73	53.20	-130.75	2.00	2.00	0.00
1,619.30	21.39	160.07	1,594.64	-185.44	67.24	-165.24	2.00	2.00	0.00
Hold 21.39 Inclination									
2,000.00	21.39	160.07	1,949.13	-315.95	114.56	-281.53	0.00	0.00	0.00
2,500.00	21.39	160.07	2,414.70	-487.35	176.71	-434.27	0.00	0.00	0.00
3,000.00	21.39	160.07	2,880.28	-658.76	238.86	-587.00	0.00	0.00	0.00
3,500.00	21.39	160.07	3,345.85	-830.16	301.00	-739.74	0.00	0.00	0.00
4,000.00	21.39	160.07	3,811.42	-1,001.57	363.15	-892.47	0.00	0.00	0.00
4,412.34	21.39	160.07	4,195.37	-1,142.92	414.41	-1,018.43	0.00	0.00	0.00
Start Build DLS 9.00 TFO 156.92									
4,500.00	14.45	172.52	4,278.76	-1,168.83	421.29	-1,039.51	9.00	-7.92	14.21
5,000.00	33.97	306.06	4,752.81	-1,147.34	310.74	-938.26	9.00	3.90	26.71
5,295.34	60.00	313.65	4,952.71	-1,008.00	148.58	-724.90	9.00	8.81	2.57
Hold 60.00 Inclination									
5,355.34	60.00	313.65	4,982.71	-972.13	110.98	-673.29	0.00	0.00	0.00
Start Build DLS 9.01 TFO 0.90									
5,494.75	72.55	313.86	5,038.69	-884.04	18.98	-546.81	9.01	9.01	0.15
Start DLS 9.00 TFO -1.83									
5,500.00	73.03	313.84	5,040.24	-880.56	15.36	-541.83	9.00	9.00	-0.30
5,686.00	89.76	313.31	5,067.98	-754.26	-117.41	-359.79	9.00	9.00	-0.28
7" 23# J-55									
5,686.62	89.81	313.31	5,067.98	-753.83	-117.86	-359.18	9.00	9.00	-0.27
POE at 89.81 deg at 313.31									
6,000.00	89.81	313.31	5,069.02	-538.87	-345.88	-47.72	0.00	0.00	0.00
6,500.00	89.81	313.31	5,070.64	-195.90	-709.71	449.22	0.00	0.00	0.00
7,000.00	89.81	313.31	5,072.27	147.07	-1,073.54	946.16	0.00	0.00	0.00
7,500.00	89.81	313.31	5,073.90	490.02	-1,437.38	1,443.10	0.00	0.00	0.00
8,000.00	89.81	313.31	5,075.54	832.97	-1,801.22	1,940.04	0.00	0.00	0.00
8,500.00	89.81	313.30	5,077.17	1,175.91	-2,165.08	2,436.98	0.00	0.00	0.00
9,000.00	89.81	313.30	5,078.81	1,518.84	-2,528.94	2,933.93	0.00	0.00	0.00
9,500.00	89.81	313.30	5,080.46	1,861.76	-2,892.81	3,430.87	0.00	0.00	0.00
10,000.00	89.81	313.30	5,082.10	2,204.68	-3,256.69	3,927.82	0.00	0.00	0.00
10,500.00	89.81	313.30	5,083.75	2,547.58	-3,620.57	4,424.77	0.00	0.00	0.00
11,000.00	89.81	313.30	5,085.40	2,890.48	-3,984.47	4,921.72	0.00	0.00	0.00
11,500.00	89.81	313.30	5,087.05	3,233.37	-4,348.37	5,418.67	0.00	0.00	0.00
11,787.54	89.81	313.30	5,088.00	3,430.55	-4,557.64	5,704.45	0.00	0.00	0.00
TD									

WPX

Planning Report

Database:	San Juan	Local Co-ordinate Reference:	Well Chaco 2206-16I #905H (A1) - Slot A1
Company:	WPX Energy	TVD Reference:	KB @ 7208.00usft (Original Well Elev)
Project:	T22N R6W	MD Reference:	KB @ 7208.00usft (Original Well Elev)
Site:	Chaco 2206-16I	North Reference:	True
Well:	Chaco 2206-16I #905H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 23July15 sam		

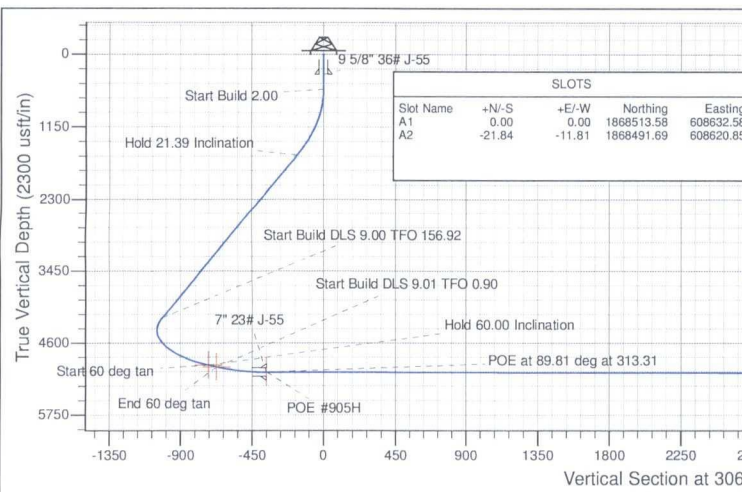
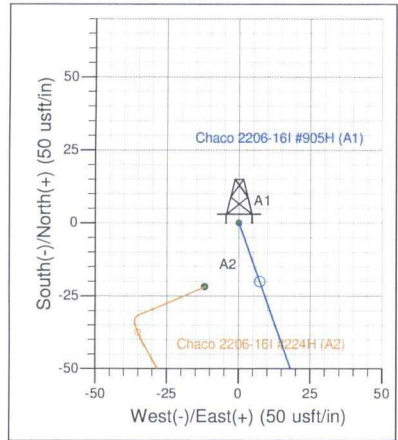
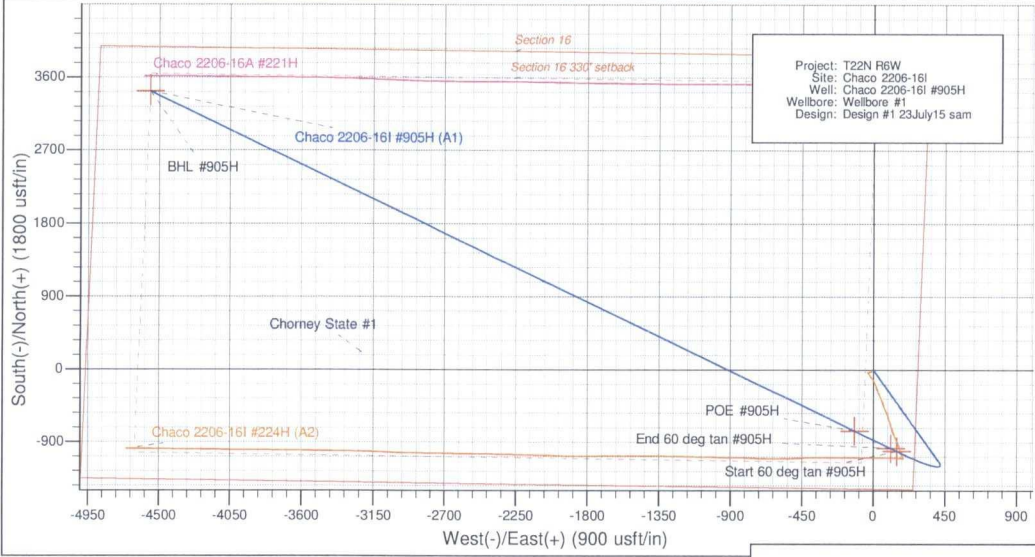
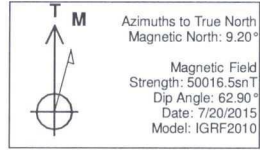
Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Start 60 deg tan #905H - plan hits target center - Point	0.00	0.00	4,952.71	-1,008.00	148.58	1,867,506.15	608,784.98	36.1320308	-107.4649469
End 60 deg tan #905H - plan hits target center - Point	0.00	0.00	4,982.71	-972.13	110.98	1,867,541.88	608,747.24	36.1321294	-107.4650742
POE #905H - plan misses target center by 0.02usft at 5686.61usft MD (5067.98 TVD, -753.84 N, -117.85 E) - Point	0.00	0.00	5,068.00	-753.84	-117.85	1,867,759.30	608,517.58	36.1327291	-107.4658491
BHL #905H - plan hits target center - Point	0.00	0.00	5,088.00	3,430.55	-4,557.64	1,871,926.85	604,061.98	36.1442233	-107.4808861

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
320.00	320.00	9 5/8" 36# J-55	9.62	12.25	
5,686.00	5,067.98	7" 23# J-55	7.00	8.75	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
550.00	550.00	0.00	0.00	Start Build 2.00	
1,619.30	1,594.64	-185.44	67.24	Hold 21.39 Inclination	
4,412.34	4,195.37	-1,142.92	414.41	Start Build DLS 9.00 TFO 156.92	
5,295.34	4,952.71	-1,008.00	148.58	Hold 60.00 Inclination	
5,355.34	4,982.71	-972.13	110.98	Start Build DLS 9.01 TFO 0.90	
5,494.75	5,038.69	-884.04	18.98	Start DLS 9.00 TFO -1.83	
5,686.62	5,067.98	-753.83	-117.86	POE at 89.81 deg at 313.31	
11,787.54	5,088.00	3,430.55	-4,557.64	TD	



Well Name: Chaco 2206-16I #905H
Surface Location: Chaco 2206-16I
NAD 1927 (NADCON CONUS) , US State Plane 1927 (Exact solution) New Mexico West 3003
Ground Elevation: 7194.00
+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 1868513.58 608632.58 36.1348000 -107.4654500
KB @ 7208.00usft (Original Well Elev)



DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
Start 60 deg tan #905H	4952.71	-1008.00	148.58	1867506.15	608784.97	36.1320309	-107.4649469	Point	
- plan hits target center									
End 60 deg tan #905H	4982.71	-972.13	110.98	1867541.88	608747.24	36.1321294	-107.4650742	Point	
- plan hits target center									
POE #905H	5068.00	-753.84	-117.85	1867759.30	608517.58	36.1327291	-107.4658491	Point	
- plan hits target center									
BHL #905H	5088.00	3430.55	-4557.64	1871926.85	604061.98	36.1442233	-107.4808861	Point	
- plan hits target center									

ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	V Sect	Departure	Annotation	
550.00	550.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00	
1594.64	1619.30	21.39	160.07	-185.44	67.24	-165.24	197.25	Hold 21.39 Inclination	
4195.37	4412.34	21.39	160.07	-1142.92	414.41	-1018.43	1215.73	Start Build DLS 9.00 TFO 156.92	
4952.71	5295.34	60.00	313.65	-1008.00	148.58	-724.90	1600.60	Hold 60.00 Inclination	
4982.71	5355.34	60.00	313.65	-972.13	110.98	-673.29	1652.56	Start Build DLS 9.01 TFO 0.90	
5038.09	5494.75	72.55	313.86	-884.04	18.98	-548.81	1779.94	Start DLS 9.00 TFO -1.83	
5067.98	5686.62	89.81	313.31	-753.83	-117.86	-359.18	1968.82	POE at 89.81 deg at 313.31	
5088.00	11787.54	89.81	313.30	3430.55	-4557.64	5704.45	8069.71	TD	

WPX Energy

T22N R6W

Chaco 2206-16l

Chaco 2206-16l #905H

Wellbore #1

Design #1 23July15 sam

Anticollision Summary Report

23 July, 2015

WPX

Anticollision Summary Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well Chaco 2206-16I #905H (A1) - Slot A1
Project:	T22N R6W	TVD Reference:	KB @ 7208.00usft (Original Well Elev)
Reference Site:	Chaco 2206-16I	MD Reference:	KB @ 7208.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Chaco 2206-16I #905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	San Juan
Reference Design:	Design #1 23July15 sam	Offset TVD Reference:	Offset Datum

Reference	Design #1 23July15 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 7/23/2015			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	11,787.54	Design #1 23July15 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 2206-16A						
Chaco 2206-16A #221H - Wellbore #1 - Wellbore #1	11,700.00	9,997.67	371.61	214.30	2.362	SF
Chaco 2206-16A #221H - Wellbore #1 - Wellbore #1	11,787.54	10,063.27	333.33	195.33	2.415	CC, ES
Chaco 2206-16I						
Chaco 2206-16I #224H (A2) - Wellbore #1 - Wellbore #1	0.00	0.00	24.83			
Chaco 2206-16I #224H (A2) - Wellbore #1 - Wellbore #1	5,187.75	5,051.18	39.78	-1.17	0.971	Level 1, ES, SF
Section 16 offsets						
Chorney State #1 - Wellbore #1 - Wellbore #1	8,615.28	2,550.00	2,942.97	2,869.19	39.890	CC
Chorney State #1 - Wellbore #1 - Wellbore #1	8,640.00	2,550.00	2,943.07	2,868.97	39.715	ES
Chorney State #1 - Wellbore #1 - Wellbore #1	10,200.00	2,550.00	3,342.50	3,247.40	35.148	SF

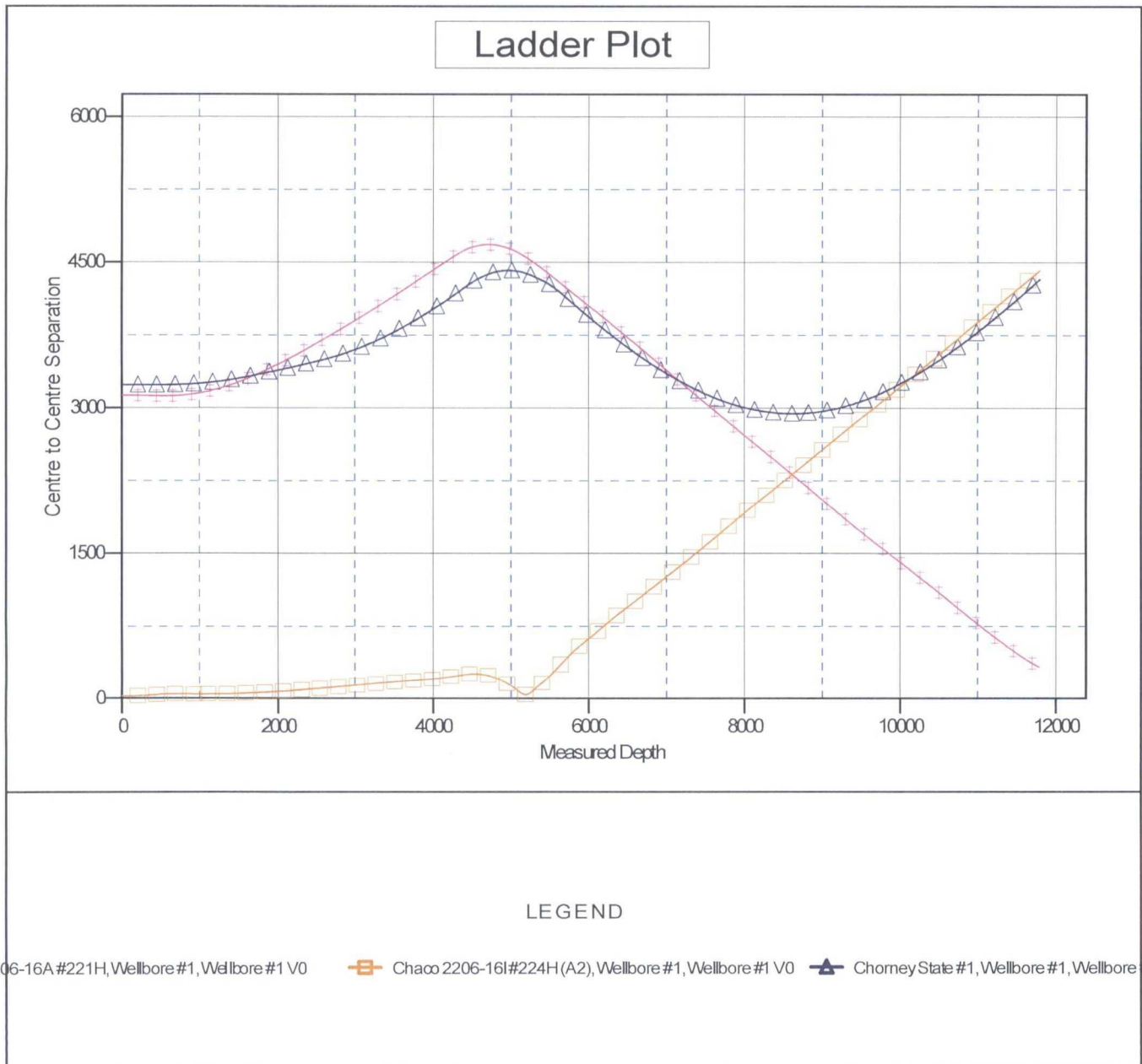
WPX

Anticollision Summary Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well Chaco 2206-16I #905H (A1) - Slot A1
Project:	T22N R6W	TVD Reference:	KB @ 7208.00usft (Original Well Elev)
Reference Site:	Chaco 2206-16I	MD Reference:	KB @ 7208.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Chaco 2206-16I #905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	San Juan
Reference Design:	Design #1 23July15 sam	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 7208.00usft (Original Well Elev)
Offset Depths are relative to Offset Datum
Central Meridian is -107.8333334

Coordinates are relative to: Chaco 2206-16I #905H (A1) - Slot A1
Coordinate System is US State Plane 1927 (Exact solution), New Mexico West 3003
Grid Convergence at Surface is: 0.22°



WPX

Anticollision Summary Report

Company:	WPX Energy	Local Co-ordinate Reference:	Well Chaco 2206-16I #905H (A1) - Slot A1
Project:	T22N R6W	TVD Reference:	KB @ 7208.00usft (Original Well Elev)
Reference Site:	Chaco 2206-16I	MD Reference:	KB @ 7208.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	Chaco 2206-16I #905H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	San Juan
Reference Design:	Design #1 23July15 sam	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 7208.00usft (Original Well Elev)

Offset Depths are relative to Offset Datum

Central Meridian is -107.8333334

Coordinates are relative to: Chaco 2206-16I #905H (A1) - Slot A1

Coordinate System is US State Plane 1927 (Exact solution), New Mexico West 3003

Grid Convergence at Surface is: 0.22°

