

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 30 2014

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

☒ 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)
505-333-1808

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

SHL: 1757' FNL & 203' FWL, sec 19, T23N, R6W –
BHL: 1187' FNL & 230' FEL, Sec 19, T23N, R6W

1801/N, 302/W
1296/N, 230/E

Lease Serial No.

NMSF-078360

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
Chaco 2306-19E #205H

9. API Well No.
30-043-21204

10. Field and Pool or Exploratory Area
Lybrook Gallup

11. Country or Parish, State
SANDOVAL County, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other: sidetrack intermediate
	☐ 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 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.)

Due to collision with Chaco 2306-19E #188H WPX needs to plug back 50' into surface casing and sidetrack this well. Copy of revised directional plan attached. This confirms verbal approval from Jim Lovato, BLM @1645 hr and Brandon Powell, NMOCD @1705 hr 6/28/14.

OIL CONS. DIV DIST. 3

JUL 08 2014

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

Name (Printed/Typed)

Larry Higgins

Title Regulatory Specialist

Signature

Date 6/30/14

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Petr. Eng

Date 7/3/14

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

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

WELL DETAILS: Chaco 2306-19E #205H

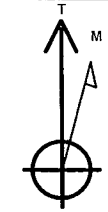
GL 6965' & RKB 14' @ 6979.00ft
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 1899266.26 126313.58 36° 12' 47.628 N 107° 31' 0.264 W

PROJECT DETAILS: Sandoval County, NM NAD27

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico Central 3002
 System Datum: Mean Sea Level
 Local North: True

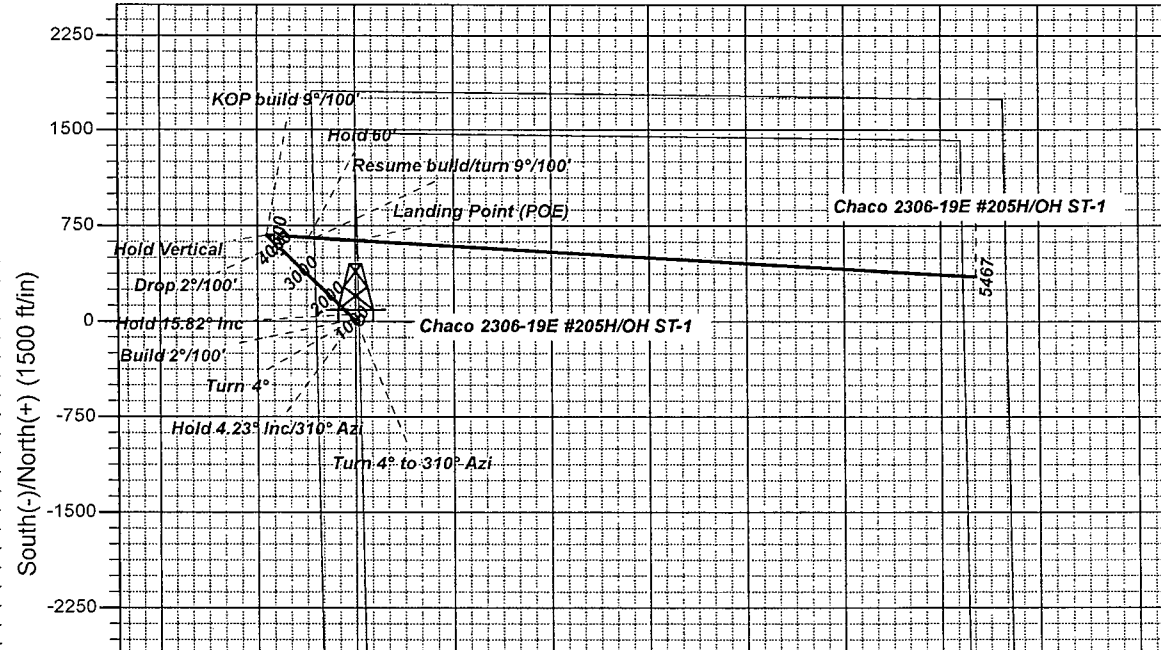
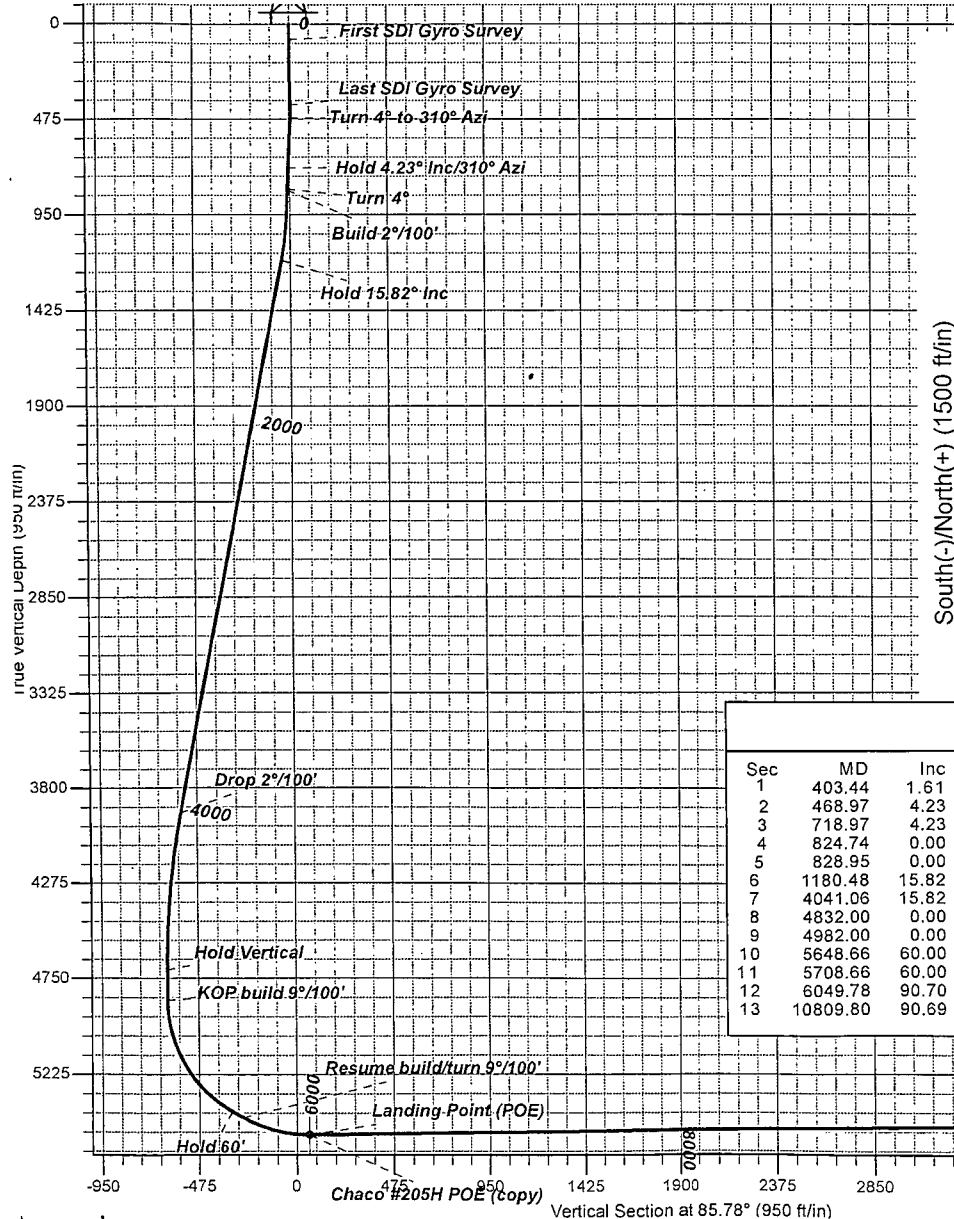
Plan: Plan #1 (Chaco 2306-19E #205H/OH ST-1)

Created By: Janie Collins Date: 3:42, June 30 2014



Azimuths to True North
 Magnetic North: 9.4°

Magnetic Field
 Strength: 50090.0sn
 Dip Angle: 62.95
 Date: 6/29/201
 Model: BGGM201



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target	Annotation
1	403.44	1.61	96.47	403.41	-0.25	4.54	0.00	0.00	4.51		
2	468.97	4.23	310.00	468.84	2.26	5.03	12.07	-70.65	5.19		Turn 4° to 310° Azi
3	718.97	4.23	310.00	718.16	14.12	-9.09	0.00	0.00	-8.03		Hold 4.23° Inc/310° Azi
4	824.74	0.00	0.00	823.84	16.63	-12.09	4.00	180.00	-10.83		Turn 4°
5	828.95	0.00	0.00	828.05	16.63	-12.09	0.00	0.00	-10.83		Build 2°/100'
6	1180.48	15.82	314.53	1175.13	50.44	-46.46	4.50	314.53	-42.63		Hold 15.82° Inc
7	4041.06	15.82	314.53	3927.37	597.27	-602.37	0.00	0.00	-556.83		Drop 2°/100'
8	4832.00	0.00	0.00	4708.30	673.35	-679.72	2.00	180.00	-628.38		Hold Vertical
9	4982.00	0.00	0.00	4858.30	673.35	-679.72	0.00	0.00	-628.38		KOP build 9°/100'
10	5648.66	60.00	93.50	5409.63	653.92	-362.00	9.00	93.50	-312.95		Hold 60°
11	5708.66	60.00	93.50	5439.63	650.75	-310.14	0.00	0.00	-261.46		Resume build/turn 9°/100'
12	6049.78	90.70	93.35	5524.87	631.30	15.37	9.00	-0.30	61.74	Chaco #205H POE (copy)	Landing Point (POE)
13	10809.80	90.69	93.39	5467.00	351.39	4766.80	0.00	98.25	4779.74	Chaco #205H PBHL (copy)	

Chaco 2306-19E #205H/OH ST-1/Plan #1

Chaco #205H PBHL (copy)

Vertical Section at 85.78° (950 ft/in)

WPX Energy

Sandoval County, NM NAD27

Chaco 2306-19E

Chaco 2306-19E #205H

OH-ST-1

Plan: Plan #1

Standard Planning Report - Geographic

30 June, 2014

Scientific Drilling

Planning Report - Geographic

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Chaco 2306-19E #205H
Company:	WPX Energy	TVD Reference:	GL 6965' & RKB 14' @ 6979.00ft
Project:	Sandoval County, NM NAD27	MD Reference:	GL 6965' & RKB 14' @ 6979.00ft
Site:	Chaco 2306-19E	North Reference:	True
Well:	Chaco 2306-19E #205H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH ST-1		
Design:	Plan #1		

Project	Sandoval County, NM NAD27		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico Central 3002		

Site	Chaco 2306-19E			
Site Position:	From:	Lat/Long	Northing:	1,899,266.25 usft
			Easting:	126,313.58 usft
			Latitude:	36° 12' 47.628 N
			Longitude:	107° 31' 0.264 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: -0.75 °

Well	Chaco 2306-19E #205H			
Well Position	+N/-S	0.00 ft	Northing:	1,899,266.26 usft
	+E/-W	0.00 ft	Easting:	126,313.58 usft
			Latitude:	36° 12' 47.628 N
			Longitude:	107° 31' 0.264 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level: 6,965.00 ft

Wellbore	OH ST-1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	6/29/2014	9.41	62.99	50,090

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	403.44
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	85.78

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
403.44	1.61	96.47	403.41	-0.25	4.54	0.00	0.00	0.00	0.00	
468.97	4.23	310.00	468.84	2.26	5.03	12.07	4.00	-223.53	-70.65	
718.97	4.23	310.00	718.16	14.12	-9.09	0.00	0.00	0.00	0.00	
824.74	0.00	0.00	823.84	16.63	-12.09	4.00	-4.00	0.00	180.00	
828.95	0.00	0.00	828.05	16.63	-12.09	0.00	0.00	0.00	0.00	
1,180.48	15.82	314.53	1,175.13	50.44	-46.46	4.50	4.50	0.00	314.53	
4,041.06	15.82	314.53	3,927.37	597.27	-602.37	0.00	0.00	0.00	0.00	
4,832.00	0.00	0.00	4,708.30	673.35	-679.72	2.00	-2.00	0.00	180.00	
4,982.00	0.00	0.00	4,858.30	673.35	-679.72	0.00	0.00	0.00	0.00	
5,648.66	60.00	93.50	5,409.63	653.92	-362.00	9.00	9.00	0.00	93.50	
5,708.66	60.00	93.50	5,439.63	650.75	-310.14	0.00	0.00	0.00	0.00	
6,049.78	90.70	93.35	5,524.87	631.30	15.37	9.00	9.00	-0.04	-0.30	Chaco #205H POE (c
10,809.80	90.69	93.39	5,467.00	351.39	4,766.80	0.00	0.00	0.00	98.25	Chaco #205H PBHL (

Scientific Drilling

Planning Report - Geographic

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Chaco 2306-19E #205H
Company:	WPX Energy	TVD Reference:	GL 6965' & RKB 14' @ 6979.00ft
Project:	Sandoval County, NM NAD27	MD Reference:	GL 6965' & RKB 14' @ 6979.00ft
Site:	Chaco 2306-19E	North Reference:	True
Well:	Chaco 2306-19E #205H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH ST-1		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
403.44	1.61	96.47	403.41	-0.25	4.54	1,899,265.96	126,318.12	36° 12' 47.626 N	107° 31' 0.209 W
468.97	4.23	310.00	468.84	2.26	5.03	1,899,268.46	126,318.64	36° 12' 47.650 N	107° 31' 0.203 W
Turn 4° to 310° Azi									
500.00	4.23	310.00	499.79	3.74	3.28	1,899,269.96	126,316.91	36° 12' 47.665 N	107° 31' 0.224 W
600.00	4.23	310.00	599.52	8.48	-2.37	1,899,274.77	126,311.32	36° 12' 47.712 N	107° 31' 0.293 W
700.00	4.23	310.00	699.25	13.22	-8.02	1,899,279.59	126,305.73	36° 12' 47.759 N	107° 31' 0.362 W
718.97	4.23	310.00	718.16	14.12	-9.09	1,899,280.50	126,304.67	36° 12' 47.768 N	107° 31' 0.375 W
Hold 4.23° Inc/310° Azi									
800.00	0.99	310.00	799.10	16.49	-11.92	1,899,282.91	126,301.87	36° 12' 47.791 N	107° 31' 0.409 W
824.74	0.00	0.00	823.84	16.63	-12.09	1,899,283.05	126,301.71	36° 12' 47.792 N	107° 31' 0.411 W
Turn 4°									
828.95	0.00	0.00	828.05	16.63	-12.09	1,899,283.05	126,301.71	36° 12' 47.792 N	107° 31' 0.411 W
Build 2°/100'									
900.00	3.20	314.53	899.06	18.02	-13.50	1,899,284.46	126,300.32	36° 12' 47.806 N	107° 31' 0.429 W
1,000.00	7.70	314.53	998.58	24.67	-20.26	1,899,291.20	126,293.64	36° 12' 47.872 N	107° 31' 0.511 W
1,100.00	12.20	314.53	1,097.05	36.78	-32.58	1,899,303.47	126,281.49	36° 12' 47.992 N	107° 31' 0.661 W
1,180.48	15.82	314.53	1,175.13	50.44	-46.46	1,899,317.31	126,267.78	36° 12' 48.127 N	107° 31' 0.831 W
Hold 15.82° Inc									
1,200.00	15.82	314.53	1,193.91	54.17	-50.25	1,899,321.09	126,264.04	36° 12' 48.164 N	107° 31' 0.877 W
1,300.00	15.82	314.53	1,290.12	73.29	-69.69	1,899,340.46	126,244.85	36° 12' 48.353 N	107° 31' 1.114 W
1,400.00	15.82	314.53	1,386.34	92.41	-89.12	1,899,359.83	126,225.67	36° 12' 48.542 N	107° 31' 1.351 W
1,500.00	15.82	314.53	1,482.55	111.52	-108.56	1,899,379.19	126,206.49	36° 12' 48.731 N	107° 31' 1.589 W
1,600.00	15.82	314.53	1,578.76	130.64	-127.99	1,899,398.56	126,187.31	36° 12' 48.920 N	107° 31' 1.826 W
1,700.00	15.82	314.53	1,674.97	149.75	-147.42	1,899,417.93	126,168.12	36° 12' 49.109 N	107° 31' 2.063 W
1,800.00	15.82	314.53	1,771.19	168.87	-166.86	1,899,437.30	126,148.94	36° 12' 49.298 N	107° 31' 2.300 W
1,900.00	15.82	314.53	1,867.40	187.99	-186.29	1,899,456.67	126,129.76	36° 12' 49.487 N	107° 31' 2.537 W
2,000.00	15.82	314.53	1,963.61	207.10	-205.72	1,899,476.04	126,110.58	36° 12' 49.676 N	107° 31' 2.774 W
2,100.00	15.82	314.53	2,059.83	226.22	-225.16	1,899,495.40	126,091.40	36° 12' 49.865 N	107° 31' 3.011 W
2,200.00	15.82	314.53	2,156.04	245.33	-244.59	1,899,514.77	126,072.21	36° 12' 50.054 N	107° 31' 3.248 W
2,300.00	15.82	314.53	2,252.25	264.45	-264.02	1,899,534.14	126,053.03	36° 12' 50.243 N	107° 31' 3.486 W
2,400.00	15.82	314.53	2,348.46	283.57	-283.46	1,899,553.51	126,033.85	36° 12' 50.432 N	107° 31' 3.723 W
2,500.00	15.82	314.53	2,444.68	302.68	-302.89	1,899,572.88	126,014.67	36° 12' 50.621 N	107° 31' 3.960 W
2,600.00	15.82	314.53	2,540.89	321.80	-322.32	1,899,592.24	125,995.49	36° 12' 50.810 N	107° 31' 4.197 W
2,700.00	15.82	314.53	2,637.10	340.91	-341.76	1,899,611.61	125,976.30	36° 12' 50.999 N	107° 31' 4.434 W
2,800.00	15.82	314.53	2,733.32	360.03	-361.19	1,899,630.98	125,957.12	36° 12' 51.188 N	107° 31' 4.671 W
2,900.00	15.82	314.53	2,829.53	379.15	-380.63	1,899,650.35	125,937.94	36° 12' 51.377 N	107° 31' 4.908 W
3,000.00	15.82	314.53	2,925.74	398.26	-400.06	1,899,669.72	125,918.76	36° 12' 51.566 N	107° 31' 5.145 W
3,100.00	15.82	314.53	3,021.95	417.38	-419.49	1,899,689.08	125,899.57	36° 12' 51.755 N	107° 31' 5.383 W
3,200.00	15.82	314.53	3,118.17	436.49	-438.93	1,899,708.45	125,880.39	36° 12' 51.944 N	107° 31' 5.620 W
3,300.00	15.82	314.53	3,214.38	455.61	-458.36	1,899,727.82	125,861.21	36° 12' 52.133 N	107° 31' 5.857 W
3,400.00	15.82	314.53	3,310.59	474.72	-477.79	1,899,747.19	125,842.03	36° 12' 52.322 N	107° 31' 6.094 W
3,500.00	15.82	314.53	3,406.81	493.84	-497.23	1,899,766.56	125,822.85	36° 12' 52.511 N	107° 31' 6.331 W
3,600.00	15.82	314.53	3,503.02	512.96	-516.66	1,899,785.92	125,803.66	36° 12' 52.700 N	107° 31' 6.568 W
3,700.00	15.82	314.53	3,599.23	532.07	-536.09	1,899,805.29	125,784.48	36° 12' 52.889 N	107° 31' 6.805 W
3,800.00	15.82	314.53	3,695.44	551.19	-555.53	1,899,824.66	125,765.30	36° 12' 53.078 N	107° 31' 7.043 W
3,900.00	15.82	314.53	3,791.66	570.30	-574.96	1,899,844.03	125,746.12	36° 12' 53.267 N	107° 31' 7.280 W
4,000.00	15.82	314.53	3,887.87	589.42	-594.40	1,899,863.40	125,726.93	36° 12' 53.456 N	107° 31' 7.517 W
4,041.06	15.82	314.53	3,927.37	597.27	-602.37	1,899,871.35	125,719.06	36° 12' 53.534 N	107° 31' 7.614 W
Drop 2°/100'									
4,100.00	14.64	314.53	3,984.24	608.13	-613.41	1,899,882.35	125,708.16	36° 12' 53.641 N	107° 31' 7.749 W
4,200.00	12.64	314.53	4,081.42	624.66	-630.22	1,899,899.10	125,691.57	36° 12' 53.805 N	107° 31' 7.954 W
4,300.00	10.64	314.53	4,179.36	638.81	-644.61	1,899,913.44	125,677.37	36° 12' 53.945 N	107° 31' 8.130 W
4,400.00	8.64	314.53	4,277.94	650.55	-656.54	1,899,925.34	125,665.59	36° 12' 54.061 N	107° 31' 8.275 W
4,500.00	6.64	314.53	4,377.05	659.87	-666.02	1,899,934.78	125,656.24	36° 12' 54.153 N	107° 31' 8.391 W

Scientific Drilling

Planning Report - Geographic

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Chaco 2306-19E #205H
Company:	WPX Energy	TVD Reference:	GL 6965' & RKB 14' @ 6979.00ft
Project:	Sandoval County, NM NAD27	MD Reference:	GL 6965' & RKB 14' @ 6979.00ft
Site:	Chaco 2306-19E	North Reference:	True
Well:	Chaco 2306-19E #205H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH ST-1		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,600.00	4.64	314.53	4,476.56	666.77	-673.03	1,899,941.76	125,649.32	36° 12' 54.221 N	107° 31' 8.476 W
4,700.00	2.64	314.53	4,576.35	671.22	-677.55	1,899,946.27	125,644.85	36° 12' 54.265 N	107° 31' 8.532 W
4,800.00	0.64	314.53	4,676.31	673.22	-679.59	1,899,948.31	125,642.84	36° 12' 54.285 N	107° 31' 8.556 W
4,832.00	0.00	0.00	4,708.30	673.35	-679.72	1,899,948.43	125,642.71	36° 12' 54.286 N	107° 31' 8.558 W
Hold Vertical									
4,900.00	0.00	0.00	4,776.30	673.35	-679.72	1,899,948.43	125,642.71	36° 12' 54.286 N	107° 31' 8.558 W
4,982.00	0.00	0.00	4,858.30	673.35	-679.72	1,899,948.43	125,642.71	36° 12' 54.286 N	107° 31' 8.558 W
KOP build 9°/100'									
5,000.00	1.62	93.50	4,876.30	673.33	-679.47	1,899,948.42	125,642.97	36° 12' 54.286 N	107° 31' 8.555 W
5,100.00	10.62	93.50	4,975.63	672.68	-668.83	1,899,947.63	125,653.59	36° 12' 54.280 N	107° 31' 8.425 W
5,200.00	19.62	93.50	5,072.07	671.09	-642.83	1,899,945.70	125,679.58	36° 12' 54.264 N	107° 31' 8.108 W
5,300.00	28.62	93.50	5,163.24	668.60	-602.08	1,899,942.67	125,720.29	36° 12' 54.239 N	107° 31' 7.611 W
5,400.00	37.62	93.50	5,246.91	665.27	-547.60	1,899,938.63	125,774.72	36° 12' 54.206 N	107° 31' 6.946 W
5,500.00	46.62	93.50	5,321.01	661.18	-480.72	1,899,933.66	125,841.54	36° 12' 54.166 N	107° 31' 6.130 W
5,600.00	55.62	93.50	5,383.71	656.43	-403.10	1,899,927.90	125,919.09	36° 12' 54.119 N	107° 31' 5.183 W
5,648.66	60.00	93.50	5,409.63	653.92	-362.01	1,899,924.85	125,960.15	36° 12' 54.094 N	107° 31' 4.681 W
Hold 60'									
5,700.00	60.00	93.50	5,435.30	651.20	-317.63	1,899,921.56	126,004.49	36° 12' 54.067 N	107° 31' 4.140 W
5,708.66	60.00	93.50	5,439.63	650.75	-310.14	1,899,921.00	126,011.97	36° 12' 54.063 N	107° 31' 4.048 W
Resume build/turn 9°/100'									
5,800.00	68.22	93.45	5,479.48	645.77	-228.19	1,899,914.96	126,093.84	36° 12' 54.014 N	107° 31' 3.048 W
5,900.00	77.22	93.41	5,509.15	640.06	-132.97	1,899,908.00	126,188.98	36° 12' 53.957 N	107° 31' 1.887 W
6,000.00	86.22	93.37	5,523.54	634.21	-34.29	1,899,900.87	126,287.58	36° 12' 53.899 N	107° 31' 0.682 W
6,049.78	90.70	93.35	5,524.87	631.30	15.37	1,899,897.31	126,337.20	36° 12' 53.871 N	107° 31' 0.076 W
Landing Point (POE)									
6,050.99	90.70	93.35	5,524.86	631.23	16.58	1,899,897.22	126,338.41	36° 12' 53.870 N	107° 31' 0.062 W
Chaco #205H POE (copy)									
6,100.00	90.70	93.35	5,524.26	628.37	65.51	1,899,893.72	126,387.29	36° 12' 53.842 N	107° 30' 59.465 W
6,200.00	90.70	93.35	5,523.04	622.53	165.33	1,899,886.58	126,487.02	36° 12' 53.784 N	107° 30' 58.247 W
6,300.00	90.70	93.35	5,521.82	616.68	265.15	1,899,879.43	126,586.76	36° 12' 53.726 N	107° 30' 57.029 W
6,400.00	90.70	93.35	5,520.60	610.84	364.97	1,899,872.28	126,686.50	36° 12' 53.668 N	107° 30' 55.811 W
6,500.00	90.70	93.35	5,519.38	604.99	464.79	1,899,865.13	126,786.23	36° 12' 53.610 N	107° 30' 54.593 W
6,600.00	90.70	93.35	5,518.16	599.14	564.61	1,899,857.98	126,885.97	36° 12' 53.552 N	107° 30' 53.375 W
6,700.00	90.70	93.35	5,516.93	593.29	664.43	1,899,850.82	126,985.70	36° 12' 53.495 N	107° 30' 52.157 W
6,800.00	90.70	93.36	5,515.71	587.44	764.26	1,899,843.67	127,085.44	36° 12' 53.437 N	107° 30' 50.939 W
6,900.00	90.70	93.36	5,514.50	581.59	864.08	1,899,836.51	127,185.18	36° 12' 53.379 N	107° 30' 49.721 W
7,000.00	90.70	93.36	5,513.28	575.73	963.90	1,899,829.35	127,284.91	36° 12' 53.321 N	107° 30' 48.502 W
7,100.00	90.70	93.36	5,512.06	569.87	1,063.72	1,899,822.19	127,384.65	36° 12' 53.263 N	107° 30' 47.284 W
7,200.00	90.70	93.36	5,510.84	564.02	1,163.54	1,899,815.03	127,484.38	36° 12' 53.205 N	107° 30' 46.066 W
7,300.00	90.70	93.36	5,509.62	558.16	1,263.36	1,899,807.87	127,584.12	36° 12' 53.147 N	107° 30' 44.848 W
7,400.00	90.70	93.36	5,508.40	552.29	1,363.18	1,899,800.70	127,683.85	36° 12' 53.089 N	107° 30' 43.630 W
7,500.00	90.70	93.36	5,507.18	546.43	1,463.00	1,899,793.53	127,783.59	36° 12' 53.031 N	107° 30' 42.412 W
7,600.00	90.70	93.36	5,505.96	540.56	1,562.82	1,899,786.37	127,883.32	36° 12' 52.973 N	107° 30' 41.194 W
7,700.00	90.70	93.36	5,504.75	534.70	1,662.64	1,899,779.19	127,983.06	36° 12' 52.915 N	107° 30' 39.976 W
7,800.00	90.70	93.37	5,503.53	528.83	1,762.46	1,899,772.02	128,082.79	36° 12' 52.857 N	107° 30' 38.758 W
7,900.00	90.70	93.37	5,502.31	522.96	1,862.28	1,899,764.85	128,182.53	36° 12' 52.799 N	107° 30' 37.540 W
8,000.00	90.70	93.37	5,501.09	517.09	1,962.10	1,899,757.67	128,282.26	36° 12' 52.740 N	107° 30' 36.322 W
8,100.00	90.70	93.37	5,499.88	511.21	2,061.92	1,899,750.50	128,382.00	36° 12' 52.682 N	107° 30' 35.104 W
8,200.00	90.70	93.37	5,498.66	505.34	2,161.74	1,899,743.32	128,481.73	36° 12' 52.624 N	107° 30' 33.886 W
8,300.00	90.70	93.37	5,497.44	499.46	2,261.56	1,899,736.14	128,581.47	36° 12' 52.566 N	107° 30' 32.668 W
8,400.00	90.70	93.37	5,496.23	493.58	2,361.38	1,899,728.95	128,681.20	36° 12' 52.508 N	107° 30' 31.450 W
8,500.00	90.70	93.37	5,495.01	487.70	2,461.20	1,899,721.77	128,780.94	36° 12' 52.449 N	107° 30' 30.232 W
8,600.00	90.70	93.37	5,493.80	481.82	2,561.02	1,899,714.58	128,880.67	36° 12' 52.391 N	107° 30' 29.014 W
8,700.00	90.70	93.37	5,492.58	475.93	2,660.84	1,899,707.39	128,980.40	36° 12' 52.333 N	107° 30' 27.796 W

Scientific Drilling

Planning Report - Geographic

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Chaco 2306-19E #205H
Company:	WPX Energy	TVD Reference:	GL 6965' & RKB 14' @ 6979.00ft
Project:	Sandoval County, NM NAD27	MD Reference:	GL 6965' & RKB 14' @ 6979.00ft
Site:	Chaco 2306-19E	North Reference:	True
Well:	Chaco 2306-19E #205H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH ST-1		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,800.00	90.70	93.38	5,491.37	470.05	2,760.66	1,899,700.21	129,080.14	36° 12' 52.275 N	107° 30' 26.578 W
8,900.00	90.70	93.38	5,490.15	464.16	2,860.48	1,899,693.01	129,179.87	36° 12' 52.216 N	107° 30' 25.360 W
9,000.00	90.70	93.38	5,488.94	458.27	2,960.30	1,899,685.82	129,279.60	36° 12' 52.158 N	107° 30' 24.142 W
9,100.00	90.70	93.38	5,487.72	452.38	3,060.12	1,899,678.63	129,379.34	36° 12' 52.100 N	107° 30' 22.924 W
9,200.00	90.70	93.38	5,486.51	446.49	3,159.93	1,899,671.43	129,479.07	36° 12' 52.041 N	107° 30' 21.707 W
9,300.00	90.70	93.38	5,485.30	440.59	3,259.75	1,899,664.23	129,578.80	36° 12' 51.983 N	107° 30' 20.489 W
9,400.00	90.70	93.38	5,484.08	434.70	3,359.57	1,899,657.03	129,678.54	36° 12' 51.924 N	107° 30' 19.271 W
9,500.00	90.70	93.38	5,482.87	428.80	3,459.39	1,899,649.83	129,778.27	36° 12' 51.866 N	107° 30' 18.053 W
9,600.00	90.69	93.38	5,481.66	422.90	3,559.21	1,899,642.63	129,878.00	36° 12' 51.808 N	107° 30' 16.835 W
9,700.00	90.69	93.38	5,480.44	417.00	3,659.03	1,899,635.43	129,977.73	36° 12' 51.749 N	107° 30' 15.617 W
9,800.00	90.69	93.38	5,479.23	411.10	3,758.85	1,899,628.22	130,077.47	36° 12' 51.691 N	107° 30' 14.399 W
9,900.00	90.69	93.39	5,478.02	405.19	3,858.66	1,899,621.01	130,177.20	36° 12' 51.632 N	107° 30' 13.181 W
10,000.00	90.69	93.39	5,476.81	399.28	3,958.48	1,899,613.80	130,276.93	36° 12' 51.574 N	107° 30' 11.963 W
10,100.00	90.69	93.39	5,475.59	393.38	4,058.30	1,899,606.59	130,376.66	36° 12' 51.515 N	107° 30' 10.745 W
10,200.00	90.69	93.39	5,474.38	387.47	4,158.12	1,899,599.38	130,476.39	36° 12' 51.456 N	107° 30' 9.527 W
10,300.00	90.69	93.39	5,473.17	381.56	4,257.94	1,899,592.16	130,576.13	36° 12' 51.398 N	107° 30' 8.309 W
10,400.00	90.69	93.39	5,471.96	375.64	4,357.75	1,899,584.95	130,675.86	36° 12' 51.339 N	107° 30' 7.091 W
10,500.00	90.69	93.39	5,470.75	369.73	4,457.57	1,899,577.73	130,775.59	36° 12' 51.281 N	107° 30' 5.873 W
10,600.00	90.69	93.39	5,469.54	363.81	4,557.39	1,899,570.51	130,875.32	36° 12' 51.222 N	107° 30' 4.655 W
10,700.00	90.69	93.39	5,468.33	357.89	4,657.21	1,899,563.29	130,975.05	36° 12' 51.163 N	107° 30' 3.437 W
10,800.00	90.69	93.39	5,467.12	351.97	4,757.02	1,899,556.06	131,074.78	36° 12' 51.104 N	107° 30' 2.219 W
10,809.80	90.69	93.39	5,467.00	351.39	4,766.80	1,899,555.35	131,084.56	36° 12' 51.099 N	107° 30' 2.100 W

Chaco #205H PBHL (copy)

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Chaco #205H PBHL (copy) - plan hits target center - Point	0.00	0.00	5,467.00	351.39	4,766.80	1,899,555.35	131,084.56	36° 12' 51.099 N	107° 30' 2.100 W
Chaco #205H POE (copy) - plan misses target center by 0.14ft at 6050.99ft MD (5524.86 TVD, 631.23 N, 16.58 E) - Point	0.00	0.00	5,525.00	631.23	16.59	1,899,897.22	126,338.41	36° 12' 53.870 N	107° 31' 0.062 W

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
468.97	468.84	2.26	5.03	Turn 4° to 310° Azi
718.97	718.16	14.12	-9.09	Hold 4.23° Inc/310° Azi
824.74	823.84	16.63	-12.09	Turn 4°
828.95	828.05	16.63	-12.09	Build 2°/100'
1,180.48	1,175.13	50.44	-46.46	Hold 15.82° Inc
4,041.06	3,927.37	597.27	-602.37	Drop 2°/100'
4,832.00	4,708.30	673.35	-679.72	Hold Vertical
4,982.00	4,858.30	673.35	-679.72	KOP build 9°/100'
5,648.66	5,409.63	653.92	-362.01	Hold 60'
5,708.66	5,439.63	650.75	-310.14	Resume build/turn 9°/100'
6,049.78	5,524.87	631.30	15.37	Landing Point (POE)