

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary-Designate

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-3 APD form.

Operator Signature Date: 11/22/14

Well information:

Operator WPX, Well Name and Number Chaco 2307-12E 169H

API# 30-039-31211, Section 12, Township 23 N/S, Range 7 E W

Conditions of Approval:

(See the below checked and handwritten conditions)

- ☒ Notify Aztec OCD 24hrs prior to casing & cement.
- ☒ Hold C-104 for directional survey & "As Drilled" Plat
- ☐ Hold C-104 for NSL, NSP, DHC
- ☐ Spacing rule violation. Operator must follow up with change of status notification on other well to be shut in or abandoned
- ☐ Regarding the use of a pit, closed loop system or below grade tank, the operator must comply with the following as applicable:
 - A pit requires a complete C-144 be submitted and approved prior to the construction or use of the pit, pursuant to 19.15.17.8.A
 - A closed loop system requires notification prior to use, pursuant to 19.15.17.9.A
 - A below grade tank requires a registration be filed prior to the construction or use of the below grade tank, pursuant to 19.15.17.8.C
- ☐ Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
- ☐ Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils

Charlie [Signature]
NMOCD Approved by Signature

2-13-14 ca
Date

RECEIVED

FORM APPROVED
OMB No. 1004-0136
Expires January 31, 2004UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JAN 22 2014

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

NMSF-078362

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.

Chaco 2307-12E #169H

9. API Well No.

3003931211

10. Field and Pool, or Exploratory

Lybrook Gallup

11. Sec., T., R., M., or Blk. and Survey or Area

Section 12, 23N, 7W

12. County or Parish

Rio Arriba County

13. State

NM

1a. Type of Work: ☒ DRILL☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other☒ Single Zone ☐ Multiple Zone

2. Name of Operator

WPX Energy Production, LLC

3a. Address

P.O. Box 640 Aztec, NM 87410

3b. Phone No. (include area code)

(505) 333-1808

4. Location of Well (Report location clearly and in accordance with any State requirements. *)

At surface 1524' FNL & 262' FWL, sec 12, T23N, R7W

At proposed prod. zone 1810' FNL & 230' FWL, sec 11, T23N, R7W

14. Distance in miles and direction from nearest town or post office*

approximately 2 miles northeast of Lybrook, New Mexico

15. Distance from proposed*

location to nearest
property or lease line, ft.

(Also to nearest drig. unit line, if any) 262'

16. No. of Acres in lease

2565-24. 2530.37

17. Spacing Unit dedicated to this well

160 acres S2 N2 N2

18. Distance from proposed location*

to nearest well, drilling, completed,
applied for, on this lease, ft.

40'

19. Proposed Depth

3318'

5566' TVD / 10648' MD

20. BLM/BIA Bond No. on file

UTB000178

RCVD FEB 6 '14

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

7039' GR

22. Approximate date work will start*

April 1, 2014

23. Estimated duration

1 month

OIL CONS. DIV.

24. Attachments

DIST. 3

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the
SUPO shall be filed with the appropriate Forest Service Office).4. Bond to cover the operations unless covered by an existing bond on file (see
Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the
authorized officer.

25. Signature

Name (Printed/Typed)

Larry Higgins

Date

1/22/14

Title

Regulatory Specialist

Approved by (Signature)

Name (Printed/Typed)

Office

FFO

Date

2/5/14

Application approval 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.

Conditions of approval, if any, are attached.

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 reverse)

WPX Energy Production, LLC, proposes to develop the Lybrook Gallup formation at the above described location in accordance with the attached drilling and
surface use plans.

The well pad surface is on lease under jurisdiction of the BLM.

This location has been archaeologically surveyed by the BLM and Archaeological Consultants. Copies of their report have been submitted directly to the BLM.

No new access road is needed.

This well shares pad with Chaco 2307-12E #168H (API #30-039-31173). The 168H has been drilled.

This action is subject to technical
and procedural review pursuant to
43 CFR 3165.3 and appeal
pursuant to 43 CFR 3165.4BLM'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 LANDSDRILLING OPERATIONS
AUTHORIZED ARE SUBJECT TO
COMPLIANCE WITH THE BLM'S
"GENERAL REQUIREMENTS"NMCCD
A

APD Certification:

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 22nd day of January, 2014.

Name Larry Higgins

Position Title Regulatory Specialist

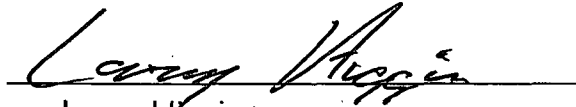
Address P.O. Box 640, Aztec, NM 87410

Telephone (505) 333-1808

Field representative (if not above signatory) _____

E-mail larry.higgins@wpxenergy.com

Date: 01/22/14


Larry Higgins
Regulatory Spec.
WPX Energy Production, LLC

District I
3525 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

JAN 22 2014

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102

*API Number 30-039-31211	*Pool Code 42289	*Pool Name LYBROOK GALLUP
*Property Code 39688	*Property Name CHACO 2307-12E	*Well Number 169H
*OGRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC	*Elevation 7039'

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	12	23N	7W		1524	NORTH	262	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	Feet from the	East/West line	County
E	11	23N	7W		1810	NORTH	230	WEST	RIO ARriba

12 Dedicated Acres 160.0 Acres S/2 N/2 - Section 11	13 Joint or Infill	14 Consolidation Code	15 Order No.
---	--------------------	-----------------------	--------------

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

END-OF-LATERAL
1810' FNL 230' FWL
SECTION 11, T23N, R7W
LAT: 36.24246°N
LONG: 107.55209°W
DATUM: NAD1927

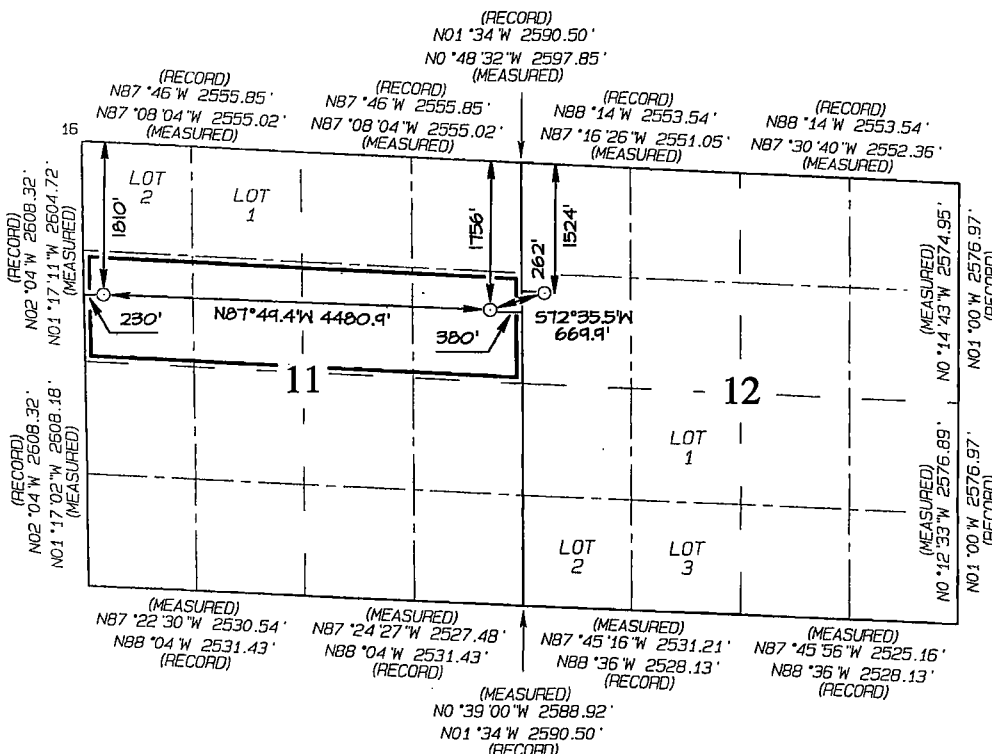
LAT: 36.24247°N
LONG: 107.55269°W
DATUM: NAD1983

POINT-OF-ENTRY
1756' FNL 380' FEL
SECTION 11, T23N, R7W
LAT: 36.24215°N
LONG: 107.53690°W
DATUM: NAD1927

LAT: 36.24217°N
LONG: 107.53750°W
DATUM: NAD1983

SURFACE LOCATION
1524' FNL 262' FWL
SECTION 12, T23N, R7W
LAT: 36.24273°N
LONG: 107.53474°W
DATUM: NAD1927

LAT: 36.24274°N
LONG: 107.53534°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: *Larry Higgins* Date: 1/22/14

Printed Name: Larry Higgins

E-mail Address: larry.higgins@wpxenergy.com

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: JANUARY 22, 2014
Survey Date: AUGUST 20, 2012

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269

WPX ENERGY**Operations Plan***(Note: This procedure will be adjusted on site based upon actual conditions)*

<u>DATE:</u>	1/15/2013	<u>FIELD:</u>	Lybrook (Gallup)
<u>WELL NAME:</u>	Chaco 2307-12E #169H	<u>SURFACE:</u>	BLM
<u>SH Location:</u>	SWNW Sec 12-23N-7W	<u>ELEVATION:</u>	7,039' GR
<u>BH Location:</u>	SWNW Sec 11-23N-7W Rio Arriba Co, NM	<u>MINERALS:</u>	BLM
<u>MEASURED DEPTH:</u>	10,548'	<u>LEASE #:</u>	NMSF-078362

I. GEOLOGY: Surface formation – San Jose

A. FORMATION TOPS: (KB)

Name	MD	TVD	Name	MD	TVD
Ojo Alamo	1,444	1,439	Point Lookout	4,348	4,334
Kirtland	1,757	1,750	Mancos	4,567	4,553
Pictured Cliffs	2,047	2,038	Kickoff Point	4,988	4,975
Lewis	2,161	2,151	Target Top	5,717	5,557
Chacra	2,496	2,483	Landing Point	6,066	5,641
Cliff House	3,567	3,553	Target Base	6,066	5,641
Menefee	3,627	3,613			
			TD	10,548	5,518

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

C. LOGGING PROGRAM: LWD GR from surface casing to TD. LWD GR / E- Sonic will be run in Lateral.

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, the curve portion of the wellbore. 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.**

NOTE: Vertical portion of the well (8-3/4 in.) will be directionally drilled as per attached Directional Plan to +/- 4,988' (MD) / 4,975' (TVD). Curve portion of wellbore will be drilled and landed at +/- 90 deg. at +/- 6,066' (MD) / 5,641' (TVD). 7 in. csg will be set at this point. A 6-1/8" Lateral will be drilled as per the attached Directional Plan to +/- 10,548' (MD) / 5,518' (TVD). Will run 4-1/2 in. Production Liner from +/- 5,916 ft. to TD and cemented. Liner will be tied back to surface w / 4-1/2" Casing for stimulation / testing, then removed from the well.

III. MATERIALS**A. CASING PROGRAM:**

CASING TYPE	OH SIZE (IN)	DEPTH (MD) (FT)	CASING SIZE (IN)	WEIGHT(LB)	GRADE
Surface	12.25"	400'+	9 5/8	36#	J-55
Intermediate	8.75"	6,066'	7	23#	K-55
Prod. Liner	6.125"	5,916' - 10,548'	4-1/2"	11.6#	N-80
Tie-Back String	N/A	Surf. - 5,916'	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 + (2) RSI (Sliding Sleeves) positioned inside 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: 10 bbl Fr Water Spacer + 190 sx (222.3 cu.ft.) of "Premium Cement" + 2% Calcium Chloride Cement + 0.125# pps of Poly-E-Flake, 15.8 #/gal (1.17 cu ft./sk, Vol 39.58 Bbls.). The 100% excess should circulate cement to the surface. WOC 12 hours. Test csg to 600psi. Total Volume: (222.3 cu-ft/190 sx/39.6 Bbls).
2. INTERMEDIATE: 20 bbl (112 cu-ft) Mud Flush III spacer + Lead: 850 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: 1216 cu-ft / 216.5 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). Test Casing to 1500 PSI for 30 minutes. Total Cement Volume: (1050 sx / 1461 cu-ft / 260 bbls). Mix with +/- 84,000 SCF Nitrogen. TOC at surface.
3. PRODUCTION LINER: **STAGE 1**: 10 bbl (56 cu-ft) Fr Water Spacer. **STAGE 2**: 40 bbl 9.5 ppg (224.6 cu-ft) Tuned Spacer III + 0.5 gal/bbl Musol + 38.75 ppb Barite + 0.5 gal/bbl SEM-7. **STAGE 3**: 10 bbl Fr Water Spacer. **STAGE 4: Lead Cement**: 50 / 50 Poz Premium + 0.2% Versaset + 0.2% Halad -766, Yield 1.43 cu ft/sk, 13.0 ppg, (10 sx / 14.3 cu ft. / 2.5 bbls). **STAGE 5**: 200 sx. Foamed Lead Cement: 50 / 50 Poz Standard + 0.2% Versaset + 0.2% HALAD-766 + 1.5% Chem-Foamer 760. Yield 1.97 cu-ft/sk. 13.0 ppg (200 sx / 394 cu-ft. / 70.2 bbls.). **STAGE 6**: Tail Cement : 100 sx. 50/50 Poz Standard + 0.2% Versaset + 0.05% HALAD-766 + .05% SA-1015, Weight: 13.5 ppg (100 sx / Yield 1.28 cu ft/sk. / 128 cu ft. / 22.8 bbls) **STAGE 7**: Displace w/ +/- 137 bbl Fr Water. Total Cement (563.3 cu ft / 95.5 bbls). Mix Foamed Cement w/ +/- 75,000 SCF Nitrogen. Est. TOC +/- 5,616 ft.

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. 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 point of curve (~5,900' MD).

- 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 (set at 6,066 ft. MD) with a Liner Hanger and pack-off assembly then cemented to +/- 300 ft above the liner hanger. TOL will be +/- 5,916 ft. (MD) +/- 78 degree angle. TOC: +/- 5,616 ft. (MD).

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.

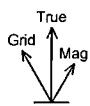
The Drilling Rig will be rigged down at this point and Completion operations will begin. After Stimulation and Testing operations are complete the 4-1/2" tie-back string will be removed from the well.

Note: Changes to formation tops, casing landing points, well TD and Directional Plan

Borehole:	Well:	Field:	Structure:
Original Hole	Chaco 2307-12E #169H	NM, Rio Arriba (NAD 27 CZ)	Sec 12-23N-7W

Gravity & Magnetic Parameters	Surface Location	Miscellaneous
Model: BGGM 2013 Dip: 63.023° Date: 15-Jan-2014	NAD27 New Mexico State Plane, Central Zone, US Feet	Slot: Chaco 2307-12E #169H
MagDec: 9.467° FS: 50157.464nT Gravity FS: 998.488mgn (9.80665 Based)	Lat: N 36 14 33.83 Northing: 1910075.137ft Grid Conv: -0.7596°	TVD Ref: RKB(7053ft above MSL)
	Lon: W 107 32 5.06 Easting: 121145.669ft Scale Fact: 1.00006425	Plan: Chaco 2307-12E #169H R0 mdy 15Jan14

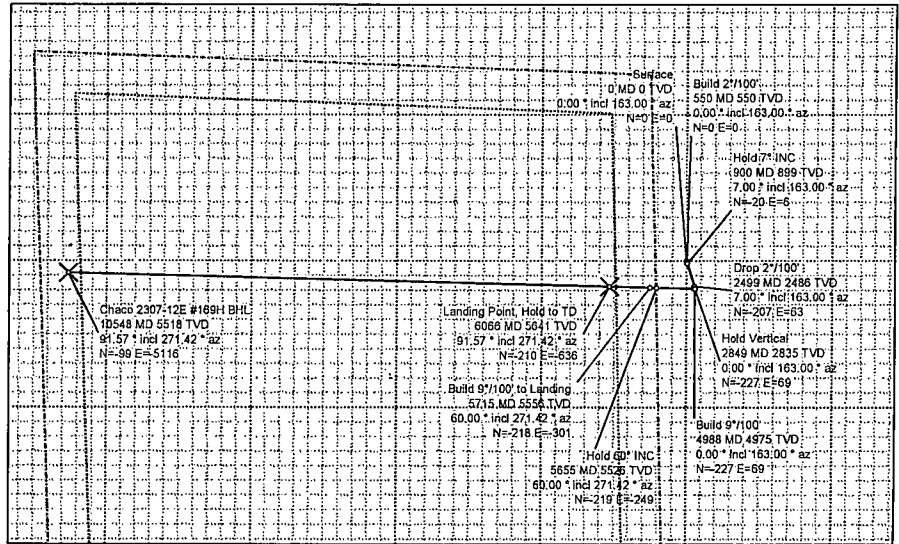
Proposal



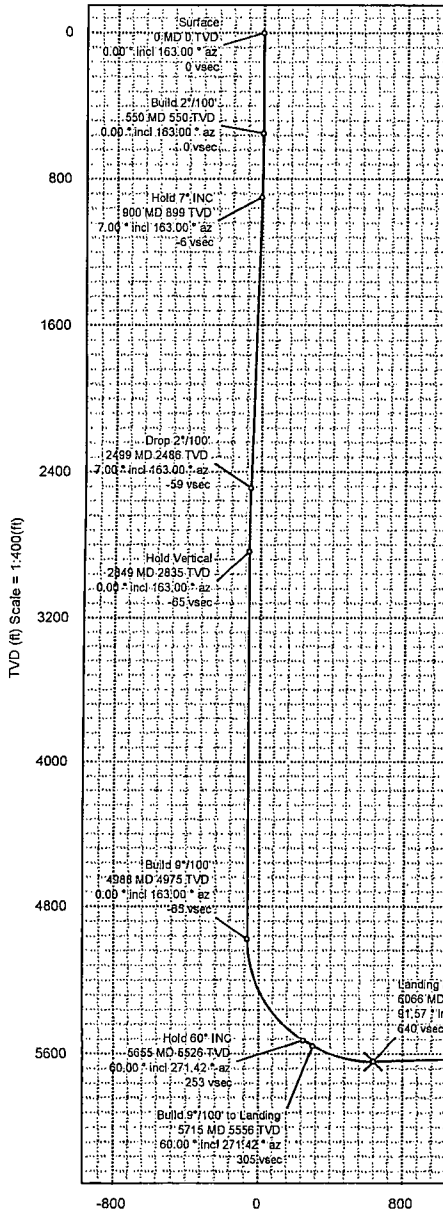
True North
Tot Corr (M→T 9.467°)
Mag Dec (9.467°)
Grid Conv (-0.760°)



EW (ft) Scale = 1:600(ft)



NS (ft) Scale = 1:600(ft)



Surface Location								
Northing: 1910075.137		Easting: 121145.669		Latitude: N 36 14 33.83		Longitude: W 107 32 5.06		VSec Azimuth: 268.894
Target Description		Grid Coord					Local Coord	
Target Name	Latitude	Longitude	Northing	Easting	TVD	VSec	N(+)/S(-)	E(+)/W(-)
Chaco 2307-12E #169H BHL	N 36 14 32.85	W 107 33 7.51	1910044.22	116026.92	5518.00	5116.52	-98.74	-5115.57
Chaco 2307-12E #169H PP	N 36 14 31.76	W 107 32 12.83	1909873.99	120506.49	5641.00	640.35	-209.60	-636.42
Chaco 2307-12E #169H Section Line	N 36 14 33.83	W 107 32 5.06	1910075.14	121145.67	7053.00	0.00	0.00	0.00
Chaco 2307-12E #169H 330' Setback	N 36 14 33.83	W 107 32 5.06	1910075.14	121145.67	7053.00	0.00	0.00	0.00
Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
Surface	0.00	0.00	163.00	0.00	0.00	0.00	0.00	
Build 2°/100'	550.00	0.00	163.00	550.00	0.00	0.00	0.00	0.00
Hold 7° INC	899.86	7.00	163.00	898.99	-5.84	-20.40	6.24	2.00
Drop 2°/100'	2498.78	7.00	163.00	2486.01	-59.19	-206.68	63.19	0.00
Hold Vertical	2848.65	0.00	163.00	2835.00	-65.03	-227.08	69.43	2.00
Build 9°/100'	4988.27	0.00	163.00	4974.62	-65.03	-227.08	69.43	0.00
Hold 60° INC	5654.93	60.00	271.42	5525.95	252.97	-219.19	-248.78	9.00
Build 9°/100' to Landing	5714.93	60.00	271.42	5555.95	304.88	-217.90	-300.73	0.00
Landing Point, Hold to TD	6065.76	91.57	271.42	5641.00	640.35	-209.60	-636.42	9.00
Chaco 2307-12E #169H BHL	10547.97	91.57	271.42	5518.00	5116.53	-98.74	-5115.57	0.00

Vertical Section (ft) Azim = 268.894° Scale = 1:400(ft) Origin = 0N-S, 0E-W



Chaco 2307-12E #169H R0 mdv 15Jan14 Proposal Geodetic Report



(Def Plan)

Report Date: January 15, 2014 - 10:22 AM
Client: WPX Energy
Field: NM, Rio Arriba (NAD 27 CZ)
Structure / Slot: WPX Sec 12-23N-7W (Chaco 2307-12E #169H) / Chaco 2307-12E #169H
Well: Chaco 2307-12E #169H
Borehole: Original Hole
UWI / API#: Unknown / Unknown
Survey Name: Chaco 2307-12E #169H R0 mdv 15Jan14
Survey Date: January 15, 2014
Tort / AHD / DDI / ERD Ratio: 105.574 * / 5424.047 ft / 6.030 / 0.951
Coordinate Reference System: NAD27 New Mexico State Plane, Central Zone, US Feet
Location Lat / Long: N 36° 14' 33.82800", W 107° 32' 5.06400"
Location Grid N/E Y/X: N 1910075.137 RUS, E 121145.669 ftUS
CRS Grid Convergence Angle: -0.7596 *
Grid Scale Factor: 1.00006425
Version / Patch: 2.7.1043.0
Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 268.894 * (True North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 7053.000 ft above MSL
Seabed / Ground Elevation: 7039.000 ft above MSL
Magnetic Declination: 9.467 *
Total Gravity Field Strength: 998.4879mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 50157.464 nT
Magnetic Dip Angle: 63.023 *
Declination Date: January 15, 2014
Magnetic Declination Model: BGGM 2013
North Reference: True North
Grid Convergence Used: 0.0000 *
Total Corr Mag North->True North: 9.4673 *
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Surface	0.00	0.00	163.00	0.00	0.00	0.00	0.00	N/A	1910075.14	121145.67	N 36 14 33.83	W 107 32 5.06
	100.00	0.00	163.00	100.00	0.00	0.00	0.00	0.00	1910075.14	121145.67	N 36 14 33.83	W 107 32 5.06
	200.00	0.00	163.00	200.00	0.00	0.00	0.00	0.00	1910075.14	121145.67	N 36 14 33.83	W 107 32 5.06
	300.00	0.00	163.00	300.00	0.00	0.00	0.00	0.00	1910075.14	121145.67	N 36 14 33.83	W 107 32 5.06
	400.00	0.00	163.00	400.00	0.00	0.00	0.00	0.00	1910075.14	121145.67	N 36 14 33.83	W 107 32 5.06
	500.00	0.00	163.00	500.00	0.00	0.00	0.00	0.00	1910075.14	121145.67	N 36 14 33.83	W 107 32 5.06
Build 2"/100'	550.00	0.00	163.00	550.00	0.00	0.00	0.00	0.00	1910075.14	121145.67	N 36 14 33.83	W 107 32 5.06
	600.00	1.00	163.00	600.00	-0.12	-0.42	0.13	2.00	1910074.72	121145.79	N 36 14 33.82	W 107 32 5.06
	700.00	3.00	163.00	699.93	-1.08	-3.75	1.15	2.00	1910071.37	121146.77	N 36 14 33.79	W 107 32 5.05
	800.00	5.00	163.00	799.68	-2.99	-10.42	3.19	2.00	1910064.67	121148.72	N 36 14 33.72	W 107 32 5.03
Hold 7" INC	899.86	7.00	163.00	898.99	-5.84	-20.40	6.24	2.00	1910054.65	121151.64	N 36 14 33.63	W 107 32 4.99
	900.00	7.00	163.00	899.13	-5.85	-20.42	6.24	0.00	1910054.63	121151.64	N 36 14 33.63	W 107 32 4.99
	1000.00	7.00	163.00	998.39	-9.18	-32.07	9.81	0.00	1910042.94	121155.05	N 36 14 33.51	W 107 32 4.94
	1100.00	7.00	163.00	1097.64	-12.52	-43.72	13.37	0.00	1910031.24	121158.46	N 36 14 33.40	W 107 32 4.90
	1200.00	7.00	163.00	1196.90	-15.86	-55.37	16.93	0.00	1910019.54	121161.86	N 36 14 33.28	W 107 32 4.86
	1300.00	7.00	163.00	1296.15	-19.19	-67.02	20.49	0.00	1910007.85	121165.27	N 36 14 33.17	W 107 32 4.81
	1400.00	7.00	163.00	1395.41	-22.53	-78.67	24.05	0.00	1909996.15	121168.68	N 36 14 33.05	W 107 32 4.77
	1500.00	7.00	163.00	1494.66	-25.87	-90.32	27.62	0.00	1909984.45	121172.09	N 36 14 32.93	W 107 32 4.73
	1600.00	7.00	163.00	1593.92	-29.20	-101.97	31.18	0.00	1909972.76	121175.49	N 36 14 32.82	W 107 32 4.68
	1700.00	7.00	163.00	1693.17	-32.54	-113.62	34.74	0.00	1909961.06	121178.90	N 36 14 32.70	W 107 32 4.64
	1800.00	7.00	163.00	1792.43	-35.88	-125.27	38.30	0.00	1909949.36	121182.31	N 36 14 32.59	W 107 32 4.60
	1900.00	7.00	163.00	1891.68	-39.21	-136.92	41.86	0.00	1909937.67	121185.72	N 36 14 32.47	W 107 32 4.55
	2000.00	7.00	163.00	1990.94	-42.55	-148.57	45.42	0.00	1909925.97	121189.12	N 36 14 32.36	W 107 32 4.51
	2100.00	7.00	163.00	2090.19	-45.89	-160.22	48.99	0.00	1909914.27	121192.53	N 36 14 32.24	W 107 32 4.47
	2200.00	7.00	163.00	2189.45	-49.22	-171.87	52.55	0.00	1909902.58	121195.94	N 36 14 32.13	W 107 32 4.42
	2300.00	7.00	163.00	2288.70	-52.56	-183.52	56.11	0.00	1909890.88	121199.35	N 36 14 32.01	W 107 32 4.38
Drop 2"/100'	2400.00	7.00	163.00	2387.96	-55.90	-195.17	59.67	0.00	1909879.18	121202.75	N 36 14 31.90	W 107 32 4.34
	2498.78	7.00	163.00	2486.01	-59.19	-206.68	63.19	0.00	1909867.63	121206.12	N 36 14 31.78	W 107 32 4.29
	2500.00	6.97	163.00	2487.21	-59.23	-206.82	63.23	2.00	1909867.49	121206.16	N 36 14 31.78	W 107 32 4.29
	2600.00	4.97	163.00	2586.67	-62.08	-216.77	66.28	2.00	1909857.50	121209.07	N 36 14 31.68	W 107 32 4.25
	2700.00	2.97	163.00	2686.42	-63.98	-223.39	68.30	2.00	1909850.84	121211.01	N 36 14 31.62	W 107 32 4.23
	2800.00	0.97	163.00	2786.36	-64.92	-226.69	69.31	2.00	1909847.54	121211.97	N 36 14 31.59	W 107 32 4.22
Hold Vertical	2848.65	0.00	163.00	2835.00	-65.03	-227.08	69.43	2.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
	2900.00	0.00	163.00	2886.35	-65.03	-227.08	69.43	0.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
	3000.00	0.00	163.00	2986.35	-65.03	-227.08	69.43	0.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
	3100.00	0.00	163.00	3086.35	-65.03	-227.08	69.43	0.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
	3200.00	0.00	163.00	3186.35	-65.03	-227.08	69.43	0.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
	3300.00	0.00	163.00	3286.35	-65.03	-227.08	69.43	0.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
	3400.00	0.00	163.00	3386.35	-65.03	-227.08	69.43	0.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
	3500.00	0.00	163.00	3486.35	-65.03	-227.08	69.43	0.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
	3600.00	0.00	163.00	3586.35	-65.03	-227.08	69.43	0.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
	3700.00	0.00	163.00	3686.35	-65.03	-227.08	69.43	0.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
	3800.00	0.00	163.00	3786.35	-65.03	-227.08	69.43	0.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
	3900.00	0.00	163.00	3886.35	-65.03	-227.08	69.43	0.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
	4000.00	0.00	163.00	3986.35	-65.03	-227.08	69.43	0.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
	4100.00	0.00	163.00	4086.35	-65.03	-227.08	69.43	0.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
	4200.00	0.00	163.00	4186.35	-65.03	-227.08	69.43	0.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
	4300.00	0.00	163.00	4286.35	-65.03	-227.08	69.43	0.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
	4400.00	0.00	163.00	4386.35	-65.03	-227.08	69.43	0.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
	4500.00	0.00	163.00	4486.35	-65.03	-227.08	69.43	0.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
	4600.00	0.00	163.00	4586.35	-65.03	-227.08	69.43	0.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
	4700.00	0.00	163.00	4686.35	-65.03	-227.08	69.43	0.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
	4800.00	0.00	163.00	4786.35	-65.03	-227.08	69.43	0.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
	4900.00	0.00	163.00	4886.35	-65.03	-227.08	69.43	0.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
Build 9"/100'	4988.27	0.00	163.00	4974.62	-65.03	-227.08	69.43	0.00	1909847.14	121212.09	N 36 14 31.58	W 107 32 4.22
	5000.00	1.06	271.42	4986.35	-64.93	-227.08	69.32	9.00	1909847.15	121211.98	N 36 14 31.58	W 107 32 4.22
	5100.00	10.06	271.42	5085.78	-55.26	-226.84	59.65	9.00	1909847.51	121202.31	N 36 14 31.58	W 107 32 4.34
	5200.00	19.06	271.42	5182.47	-30.18	-228.22	34.55	9.00	1909848.47	121177.22	N 36 14 31.59	W 107 32 4.64
	5300.00	28.06	271.42	5274.04	9.70	-225.23	-5.36	9.00	1909849.99	121137.33	N 36 14 31.60	W 107 32 5.13
	5400.00	37.06	271.42	5358.24	63.41	-223.89	-59.10	9.00	1909852.03	121083.60	N 36 14 31.61	W 107 32 5.79
	5500.00	46.06	271.42	5433.00	129.61	-222.25	-125.34	9.00	1909854.55	121017.38	N 36 14 31.63	W 107 32 6.59
	5600.00	55.06	271.42	5496.46	206.68	-220.34	-202.47	9.00	1909857.49	120940.29	N 36 14 31.65	W 107 32 7.54
Hold 60" INC	5654.93	60.00	271.42	5525.95	252.97	-219.19	-248.78	9.00	1909859.25	120893.99	N 36 14 31.66	W 107 32 8.10
	5700.00	60.00	271.42	5548.48	291.96	-218.22	-287.80	0.00	1909860.73	120854.98	N 36 14 31.67	W 107 32 8.58
Build 9"/100' to Landing	5714.93	60.00	271.42	5555.95	304.88	-217.90	-300.73	0.00	1909861.23	120842.06	N 36 14 31.67	W 107 32 8.73
	5800.00	67.66	271.42	5593.44	381.09	-218.01	-376.99	9.00	1909864.13	120765.82	N 36 14 31.69	W 107 32 9.67
	5900.00	76.66	271.42	5624.05	476.09	-213.66	-472.05	9.00	1909867.74	120670.79	N 36 14 31.72	W 107 32 10.83
	6000.00	85.66	271.42	5639.41	574.70	-211.22	-570.73	9.00	1909871.49	120572.15	N 36 14 31.74	W 107 32 12.03
Landing Point, Hold to TD	6065.76	91.57	271.42	5641.00	640.35	-209.60	-636.42	9.00	1909873.98	120506.49	N 36 14 31.76	W 107 32 12.83
	6100.00	91.57	271.42	5640.06	674.55	-208.75	-670.64	0.00	1909875.28	120472.28	N 36 14 31.76	W 107 32 13.25
	6200.00	91.57	271.42	5637.31	774.41	-206.28	-770.57	0.00	1909879.08	120		

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (*/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	6700.00	91.57	271.42	5623.58	1273.74	-183.93	-1270.23	0.00	1909889.05	119872.90	N 36 14 31.91	W 107 32 20.57
	6800.00	91.57	271.42	5620.83	1373.60	-191.46	-1370.16	0.00	1909901.85	119773.00	N 36 14 31.93	W 107 32 21.79
	6900.00	91.57	271.42	5618.09	1473.47	-188.99	-1470.10	0.00	1909905.64	119873.10	N 36 14 31.96	W 107 32 23.01
	7000.00	91.57	271.42	5615.34	1573.34	-188.52	-1570.03	0.00	1909909.44	119573.21	N 36 14 31.98	W 107 32 24.23
	7100.00	91.57	271.42	5612.60	1673.20	-184.05	-1669.96	0.00	1909913.24	119473.31	N 36 14 32.01	W 107 32 25.45
	7200.00	91.57	271.42	5609.85	1773.07	-181.58	-1769.89	0.00	1909917.03	119373.42	N 36 14 32.03	W 107 32 26.67
	7300.00	91.57	271.42	5607.11	1872.93	-179.10	-1869.82	0.00	1909920.83	119273.52	N 36 14 32.06	W 107 32 27.89
	7400.00	91.57	271.42	5604.36	1972.80	-176.63	-1969.76	0.00	1909924.62	119173.62	N 36 14 32.08	W 107 32 29.11
	7500.00	91.57	271.42	5601.62	2072.66	-174.16	-2069.69	0.00	1909928.42	119073.73	N 36 14 32.10	W 107 32 30.33
	7600.00	91.57	271.42	5598.87	2172.53	-171.69	-2169.62	0.00	1909932.22	118973.83	N 36 14 32.13	W 107 32 31.55
	7700.00	91.57	271.42	5596.13	2272.39	-169.22	-2269.55	0.00	1909936.01	118873.93	N 36 14 32.15	W 107 32 32.77
	7800.00	91.57	271.42	5593.38	2372.26	-166.75	-2369.48	0.00	1909939.81	118774.04	N 36 14 32.18	W 107 32 33.99
	7900.00	91.57	271.42	5590.64	2472.12	-164.27	-2469.41	0.00	1909943.61	118674.14	N 36 14 32.20	W 107 32 35.21
	8000.00	91.57	271.42	5587.89	2571.99	-161.80	-2569.35	0.00	1909947.41	118574.24	N 36 14 32.23	W 107 32 36.43
	8100.00	91.57	271.42	5585.15	2671.86	-159.33	-2669.28	0.00	1909951.20	118474.35	N 36 14 32.25	W 107 32 37.65
	8200.00	91.57	271.42	5582.40	2771.72	-156.85	-2769.21	0.00	1909955.00	118374.45	N 36 14 32.28	W 107 32 38.87
	8300.00	91.57	271.42	5579.66	2871.59	-154.38	-2869.14	0.00	1909958.80	118274.56	N 36 14 32.30	W 107 32 40.09
	8400.00	91.57	271.42	5576.91	2971.45	-151.91	-2969.07	0.00	1909962.60	118174.66	N 36 14 32.32	W 107 32 41.31
	8500.00	91.57	271.42	5574.17	3071.32	-149.43	-3069.00	0.00	1909966.40	118074.76	N 36 14 32.35	W 107 32 42.53
	8600.00	91.57	271.42	5571.43	3171.18	-146.96	-3168.94	0.00	1909970.20	117974.87	N 36 14 32.37	W 107 32 43.75
	8700.00	91.57	271.42	5568.68	3271.05	-144.49	-3268.87	0.00	1909973.99	117874.97	N 36 14 32.40	W 107 32 44.97
	8800.00	91.57	271.42	5565.94	3370.91	-142.01	-3368.80	0.00	1909977.79	117775.07	N 36 14 32.42	W 107 32 46.19
	8900.00	91.57	271.42	5563.20	3470.78	-139.54	-3468.73	0.00	1909981.59	117675.18	N 36 14 32.45	W 107 32 47.41
	9000.00	91.57	271.42	5560.45	3570.64	-137.06	-3568.66	0.00	1909985.39	117575.28	N 36 14 32.47	W 107 32 48.63
	9100.00	91.57	271.42	5557.71	3670.51	-134.59	-3668.59	0.00	1909989.19	117475.38	N 36 14 32.49	W 107 32 49.85
	9200.00	91.57	271.42	5554.97	3770.37	-132.12	-3768.53	0.00	1909992.99	117375.49	N 36 14 32.52	W 107 32 51.07
	9300.00	91.57	271.42	5552.22	3870.24	-129.64	-3868.46	0.00	1909996.78	117275.59	N 36 14 32.54	W 107 32 52.29
	9400.00	91.57	271.42	5549.48	3970.11	-127.17	-3968.39	0.00	1910000.59	117175.70	N 36 14 32.57	W 107 32 53.51
	9500.00	91.57	271.42	5546.74	4069.97	-124.69	-4068.32	0.00	1910004.39	117075.80	N 36 14 32.59	W 107 32 54.73
	9600.00	91.57	271.42	5543.99	4169.84	-122.22	-4168.25	0.00	1910008.19	116975.90	N 36 14 32.62	W 107 32 55.95
	9700.00	91.57	271.42	5541.25	4269.70	-119.74	-4268.19	0.00	1910011.99	116876.01	N 36 14 32.64	W 107 32 57.17
	9800.00	91.57	271.42	5538.51	4369.57	-117.26	-4368.12	0.00	1910015.79	116776.11	N 36 14 32.67	W 107 32 58.39
	9900.00	91.57	271.42	5535.77	4469.43	-114.79	-4468.05	0.00	1910019.59	116676.21	N 36 14 32.69	W 107 32 59.61
	10000.00	91.57	271.42	5533.02	4569.30	-112.31	-4567.98	0.00	1910023.39	116576.32	N 36 14 32.71	W 107 33 0.83
	10100.00	91.57	271.42	5530.28	4669.16	-109.84	-4667.91	0.00	1910027.19	116476.42	N 36 14 32.74	W 107 33 2.05
	10200.00	91.57	271.42	5527.54	4769.03	-107.36	-4767.84	0.00	1910030.99	116376.52	N 36 14 32.76	W 107 33 3.27
	10300.00	91.57	271.42	5524.80	4868.89	-104.88	-4867.78	0.00	1910034.79	116276.63	N 36 14 32.79	W 107 33 4.49
	10400.00	91.57	271.42	5522.06	4968.76	-102.41	-4967.71	0.00	1910038.60	116176.73	N 36 14 32.81	W 107 33 5.70
	10500.00	91.57	271.42	5519.32	5068.62	-99.93	-5067.64	0.00	1910042.40	116076.84	N 36 14 32.84	W 107 33 6.92

Chaco 2307-12E #169H BHL 10547.97 91.57 271.42 5518.00 5116.53 -98.74 -5115.57 0.00 1910044.22 116028.92 N 36 14 32.85 W 107 33 7.51

Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	14.000	1/100.000	30.000	30.000	SLB_MWD-STD-Depth Only	Original Hole / Chaco 2307-12E #169H R0 mdv 15Jan14
	1	14.000	10547.966	1/100.000	30.000	30.000	SLB_MWD-STD	Original Hole / Chaco 2307-12E #169H R0 mdv 15Jan14

WPX will maintain the 168H road as outlined in the Road Maintenance Plan (Appendix C).

If the 168H well is plugged before the 169H well, WPX will continue to operate and maintain the 168H access road as described in the 168H SUPO, and the road will be reclaimed after the 169H well is plugged. In such a case, the 168H access road will be reclaimed following the Reclamation Plan (Appendix A).

4. LOCATION OF EXISTING WELLS

There no recorded water wells within a 1-mile radius of the 168H/169H well pad.

The plugged and abandoned oil and gas wells, active oil and gas wells, and proposed oil and gas wells within a 1-mile radius of the well pad are depicted on Figure 2 (Appendix B).

5. LOCATION OF PRODUCTION FACILITIES

After the drilling and completion phases of the 169H well, the production facilities will be located within the 1.0-acre teardrop / facility area described in Section 10 (Well Site Layout), below.

A depiction of the production facility layout will be deferred until the facility on-site meeting is held with the BLM-FFO. All production equipment will comply with Visual Resource Management requirements. Within 90 days of installation, above-ground structures not subject to safety requirements will be painted Juniper Green (Federal 595a-34127) to blend with vegetation and reduce visual resource impacts.

6. WATER SUPPLY

The well will be horizontally drilled, and completion will include well stimulation (hydraulic fracturing). Water for drilling and completion operations will be purchased from San Juan Basin Water Haulers Association. San Juan Basin Water Haulers Association will obtain water from the following two permitted water wells:

- Turtle Mountain: SJ-960-S-3
- Blanco Trading Post: WR711

The water hauler(s) will access the well pad via the roads described in Sections 2 (Project Location and Existing Roads) and 3 (New or Reconstructed Access Roads).

7. WELL PAD CONSTRUCTION MATERIAL

The 168H well pad has already been constructed. Because the addition of the 169H twin to the well pad will not result in the expansion of the well pad, there will be no additional construction materials associated with the 169H project.

Construction plats are provided in the APD permit package.

8. METHODS FOR HANDLING WASTE DISPOSAL

Drilling operations will utilize a closed-loop system. Drilling of the horizontal lateral may be done with oil-based mud. All oil-based mud cuttings will be hauled to a commercial disposal facility or land farm.

A 30-mil reinforced liner will be placed under the drill rig mats and all drilling machinery, as shown on Figure 3 (Appendix B). This area will be enclosed by a containment berm and ditches, which will drain to

sump areas for spill prevention and control. The containment berm will be ramped to allow access to the solids control area.

WPX will follow New Mexico Oil Conservation Division "Pit Rule" guidelines and Onshore Order Nos. 1 and 7 regarding the placement, operation, and closure of any reserve pits or closed-loop systems. No blow pit will be used.

The project area will not be fully reclaimed until the 169H and 168H APDs expire.

All garbage and trash will be placed in a metal trash basket. The trash and garbage will be hauled off site and dumped in an approved landfill, as needed.

Portable toilets will be provided and maintained during drilling and completion operations.

9. ANCILLARY FACILITIES

Pipelines will be permitted and constructed at a later date.

One plugged and abandoned well pad (Range Production Company's Federal 12 No. 1) will be used as a staging area for the project. The staging area is located approximately 350 feet northeast of the 168H/169H well pad. The Federal 12 No. 1 well has been plugged, and the well pad has been reclaimed. During staging, WPX will stay within the boundaries of the original well pad area, which measures approximately 1.8 acres (estimated from an aerial photograph). During interim reclamation, WPX will repair any damage to the staging area and will reseed the staging area. The staging area is depicted in Appendix B (Figure 1).

10. WELL SITE LAYOUT

The interim reclamation/long-term disturbance layout is depicted in Figure 4, Appendix B, and is described below.

WPX will utilize the disturbance already permitted for the 168H well. This includes the following features:

- The teardrop / facility area (known as the "non-reseed working areas") will remain unreclaimed throughout the lifetime of the project. This approximately 1.0-acre area will include the 35-foot-wide tear drop driving surface and the production facilities.
- A 210-by-180-foot potential workover area will surround each wellhead (known as the "reseed working areas"). This area may be used for future activities within the well pad, but will not be used for daily activities. The reseed working area will be reseeded (but not recontoured) during interim reclamation. After excluding the portions of this area that overlap the non-reseed working areas, this area measures approximately 0.6 acre.

The approximate cuts, approximate fills, and orientation for the well pad are depicted on the construction plats in the APD permit package. The location of drilling equipment, rig orientation, and the location of topsoil or spoil material stockpiles are provided on Figure 3 (Appendix B).

After the drilling and completion phases of the project, WPX will meet with the BLM-FFO for a facility on-site meeting. A depiction of the production facility layout will be deferred until the facility on-site meeting is held with the BLM-FFO.

