

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: 8/14/14

Well information;

Operator WPX, Well Name and Number Chaco 2306-08 E # 266 H

API# 30039-31263, Section 8, Township 23 N/S, Range 6 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
- Regarding Hydraulic Fracturing, review EPA Underground Injection Control Guidance 84
- 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. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.

Charles Hernandez

NMOCD Approved by Signature

9-5-2014
Date KO

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED
OMB No. 1004-0136
Expires January 31, 2004

AUG 14 2014

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM 28735
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name NE-Chaco-Com
2. Name of Operator WPX Energy Production, LLC		7. If Unit or CA Agreement, Name and No. NMNM132829
3a. Address P.O. Box 640 Aztec, NM 87410		8. Lease Name and Well No. Chaco 2306-08E #266H
3b. Phone No. (include area code) (505) 333-1808		9. API Well No. 30-039-31263
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 1437' FNL & 195' FWL, sec 8, T23N, R6W SWNW At proposed prod. zone 1572' FNL & 231' FEL, sec 8, T23N, R6W SENE		10. Field and Pool, or Exploratory Counselors Gallup-Dakota
14. Distance in miles and direction from nearest town or post office* approximately 4 miles northeast of Lybrook, New Mexico		11. Sec., T., R., M., or Blk. and Survey or Area SHL: Section 8, T23N, R6W BHL: Section 8, T23N, R6W
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 195'	16. No. of Acres in lease 160	12. County or Parish Rio Arriba County
17. Spacing Unit dedicated to this well 200 acres	13. State NM	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 22'	19. Proposed Depth 11,274' MD / 5,482' TVD	17. OIL CONS. DIV DIST. 3
20. BLM/BIA Bond No. on file UTB000178	21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6845' GR	22. Estimated duration 1 month
22. Approximate date work will start* October 1, 2014		23. Estimated duration 1 month
24. Attachments		

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. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 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). | 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 8/14/2014
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) AFM	Date 8/27/14
Title AFM	Office FFO	

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 and Counselors Gallup-Dakota formations at the above described location in accordance with the attached drilling and surface use plans.

The well pad surface is under jurisdiction of the BLM and is co-located with the Chaco 2306-08E #197H, 198H and 267H.

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

A 550' access road is needed.
**DRILLING OPERATIONS
AUTHORIZED ARE SUBJECT TO
COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"**

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

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

NMOCDA

CONFIDENTIAL

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

District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to
Appropriate District Office

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

AMENDED REPORT

AUG 14 2014

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-31263		*Pool Code 13379	*Pool Name COUNSELORS GALLUP-DAKOTA
*Property Code 313644	*Property Name CHACO 2306-08E		*Well Number 266H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6845'

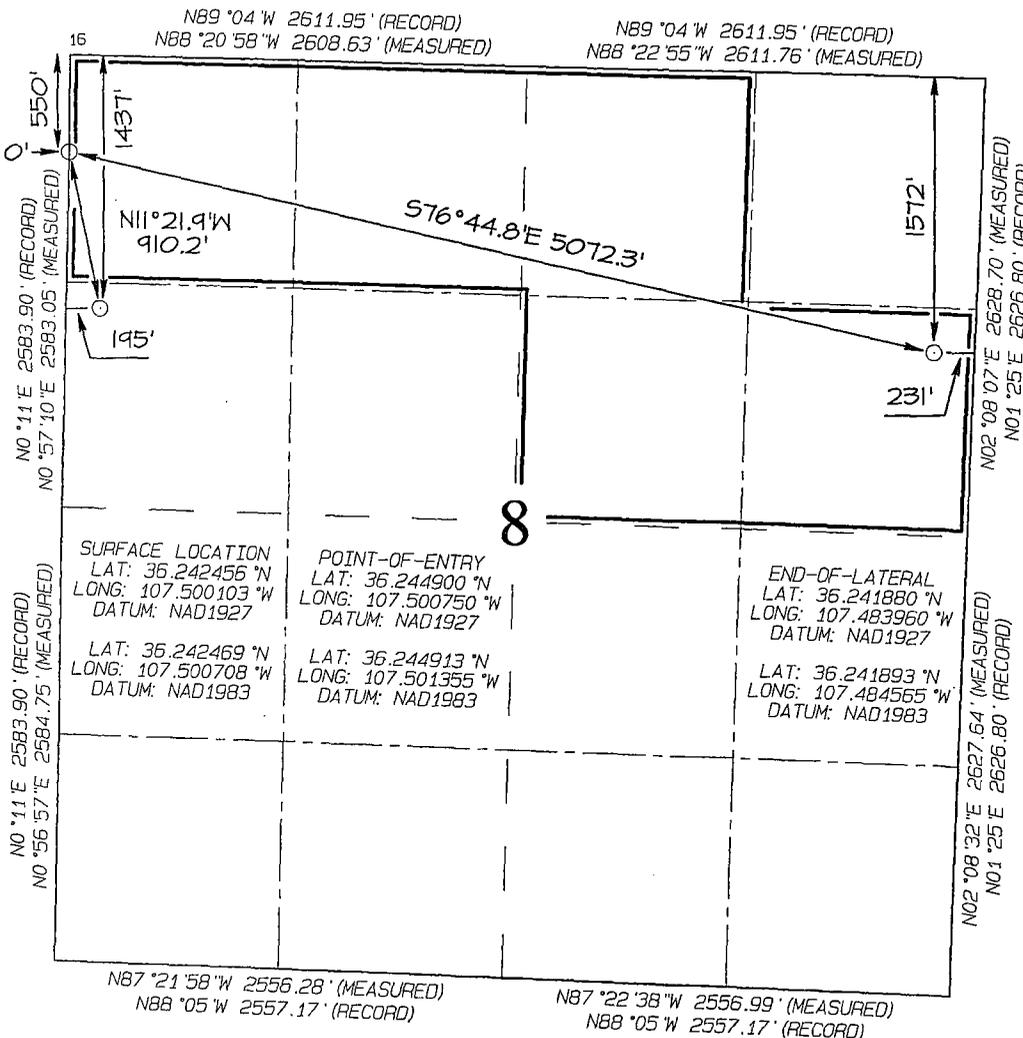
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	8	23N	6W		1437	NORTH	195	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
H	8	23N	6W		1572	NORTH	231	WEST	RIO ARRIBA
¹² Dedicated Acres 200.0 Acres N/2 NW/4, NW/4 NE/4, S/2 NE/4					¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. AUG 28 2014		

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

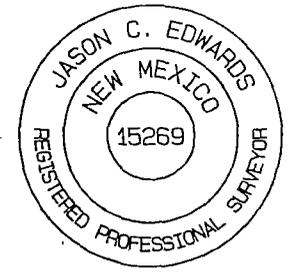


¹⁷ OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to 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: *Larry Higgins* Date: 8/14/14
 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: AUGUST 13, 2014
 Date of Survey: MARCH 31, 2014
 Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

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 14th day of August, 2014.

Name Larry Higgins

Position Title Regulatory Specialist

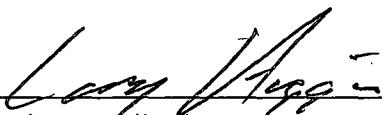
Address P.O. Box 640, Aztec, NM 87410

Telephone (505) 333-1808

Field representative (if not above signatory) _____

E-mail larry.higgins@wpxenergy.com

Date: 08/14/14



Larry Higgins
Regulatory Spec.
WPX Energy Production, LLC

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	OH SIZE (IN)	DEPTH (MD) (FT)	CASING SIZE (IN)	WEIGHT(LB)	GRADE
Surface	12.25"	400'+	9.625"	36#	J-55
Intermediate	8.75"	6,201'	7"	23#	K-55
Prod. Liner	6.125"	6,051' - 11,274'	4-1/2"	11.6#	N-80
Tie-Back String	N/A	Surf. - 5851'	4-1/2"	11.6#	N-80

B. FLOAT EQUIPMENT:

- SURFACE CASING:** 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.
- 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.
- 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 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.
- TIE-BACK CASING:** None

C. CEMENTING:

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

- 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). TOC at Surface.
- 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.
- 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 +/- 5,751 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. 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 point of curve (~5,800' 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 6,201 ft. MD) with a Liner Hanger and pack-off assembly then cemented to +/- 300 ft above the liner hanger. TOL will be +/- 6,051 ft. (MD) +/- 78 degree angle. TOC: +/- 5,751 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.



Well Name: Chaco 2306-08E #266H
 Surface Location: Chaco 2306-08E
 NAD 1927 (NADCON CONUS) , US State Plane 1927 (Exact solution) New Mexico Central 3002
 Ground Elevation: 6845.00
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.00 0.00 1909843.22946 131359.81873 36.24246 -107.50010 266H
 WELL @ 6859.00ustf (Original Well Elev)

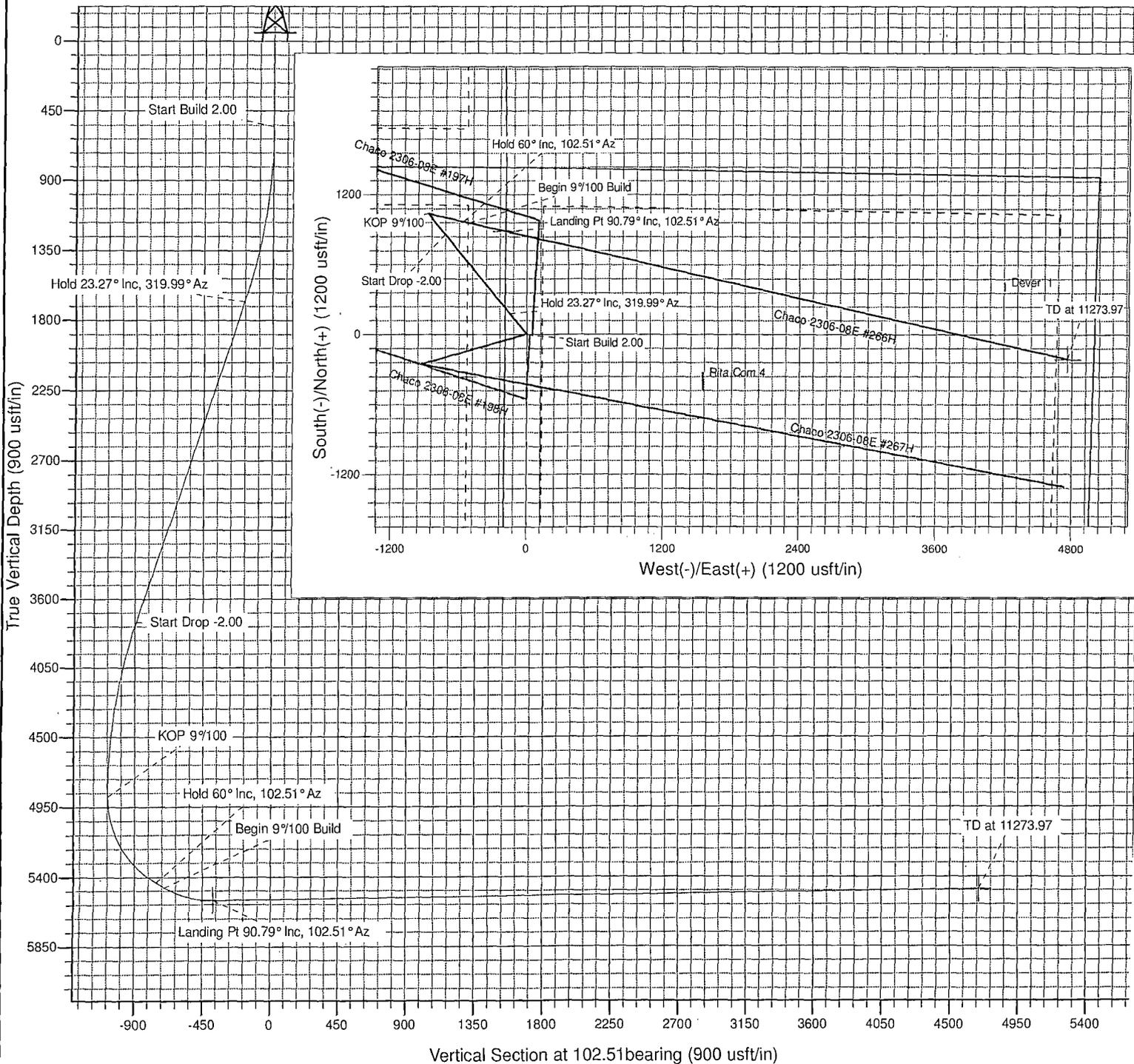


Azimuths to True North
 Magnetic North: 9.34°
 Magnetic Field
 Strength: 50172.2snT
 Dip Angle: 63.01°
 Date: 7/30/2014
 Model: IGRF2010

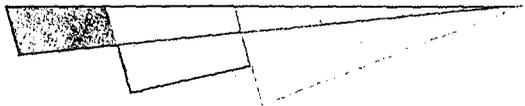
Project: SJ 08-23N-06W
 Site: Chaco 2306-08E
 Well: Chaco 2306-08E #266H
 Design #1 30Jul14 kjs

ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
550.00	550.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00	
1681.76	1713.48	23.27	319.99	178.49	-149.82	-157.57	233.03	Hold 23.27° Inc, 319.99° Az	
3753.68	3968.87	23.27	319.99	860.93	-722.68	-760.05	1124.04	Start Drop -2.00	
4885.44	5132.35	0.00	0.00	1039.42	-872.50	-917.62	1357.07	KOP 9°/100	
5436.77	5799.01	60.00	102.51	970.45	-561.75	-604.13	1675.38	Hold 60° Inc, 102.51° Az	
5466.77	5859.01	60.00	102.51	959.19	-511.03	-552.95	1727.35	Begin 9°/100 Build	
5552.00	6201.13	90.79	102.51	888.32	-191.70	-230.81	2054.44	Landing Pt 90.79° Inc, 102.51° Az	
5482.00	11273.97	90.79	102.51	-210.76	4760.15	4764.82	7126.80	TD at 11273.97	

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
TD / PBHL Chaco 2306-08E #266H	5482.00	-210.76	4760.15	1909571.08092	136116.85623	36.24188	-107.48396	Point	
- plan hits target center									
PP Chaco 2306-08E #266H	5552.00	888.32	-191.70	1910733.94536	131179.59757	36.24490	-107.50075	Point	
- plan hits target center									



WPXENERGYSM



SAN JUAN BASIN

SJ 08-23N-06W

Chaco 2306-08E

Chaco 2306-08E #266H - Slot 266H

Wellbore #1

Plan: Design #1 30Jul14 kjs

Standard Planning Report - Geographic

31 July, 2014

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well Chaco 2306-08E #266H - Slot 266H
Company:	SAN JUAN BASIN	TVD Reference:	WELL @ 6859.00usft (Original Well Elev)
Project:	SJ 08-23N-06W	MD Reference:	WELL @ 6859.00usft (Original Well Elev)
Site:	Chaco 2306-08E	North Reference:	True
Well:	Chaco 2306-08E #266H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 30Jul14 kjs		

Project	SJ 08-23N-06W, Rio Arriba County, NM		
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 2306-08E				
Site Position:		Northing:	1,909,835.37814 usft	Latitude:	36.24244
From:	Lat/Long	Easting:	131,403.96023 usft	Longitude:	-107.49995
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	-0.74 °

Well	Chaco 2306-08E #266H - Slot 266H					
Well Position	+N/-S	0.00 usft	Northing:	1,909,843.22946 usft	Latitude:	36.24246
	+E/-W	0.00 usft	Easting:	131,359.81873 usft	Longitude:	-107.50010
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,845.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	7/30/2014	(°)	(°)	(nT)
			9.34	63.01	50,172

Design	Design #1 30Jul14 kjs			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(bearing)
	0.00	0.00	0.00	102.51

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
550.00	0.00	0.00	550.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,713.48	23.27	319.99	1,681.76	178.49	-149.82	2.00	2.00	0.00	319.99	
3,968.87	23.27	319.99	3,753.68	860.93	-722.68	0.00	0.00	0.00	0.00	
5,132.35	0.00	0.00	4,885.44	1,039.42	-872.50	2.00	-2.00	0.00	180.00	
5,799.01	60.00	102.51	5,436.77	970.45	-561.75	9.00	9.00	0.00	102.51	
5,859.01	60.00	102.51	5,466.77	959.19	-511.03	0.00	0.00	0.00	0.00	
6,201.13	90.79	102.51	5,552.00	888.32	-191.70	9.00	9.00	0.00	0.00	
11,273.97	90.79	102.51	5,482.00	-210.76	4,760.15	0.00	0.00	0.00	0.00	TD / PBHL Chaco 230



WPX
Planning Report - Geographic

Database: COMPASS-PICEANCE
 Company: SAN JUAN BASIN
 Project: SJ 08-23N-06W
 Site: Chaco 2306-08E
 Well: Chaco 2306-08E #266H
 Wellbore: Wellbore #1
 Design: Design #1 30Jul14 kjs

Local Co-ordinate Reference: Well Chaco 2306-08E #266H - Slot 266H
 TVD Reference: WELL @ 6859.00usft (Original Well Elev)
 MD Reference: WELL @ 6859.00usft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	1,909,843.22946	131,359.81873	36.24246	-107.50010
200.00	0.00	0.00	200.00	0.00	0.00	1,909,843.22946	131,359.81873	36.24246	-107.50010
400.00	0.00	0.00	400.00	0.00	0.00	1,909,843.22946	131,359.81873	36.24246	-107.50010
550.00	0.00	0.00	550.00	0.00	0.00	1,909,843.22946	131,359.81873	36.24246	-107.50010
Start Build 2.00									
600.00	1.00	319.99	600.00	0.33	-0.28	1,909,843.56724	131,359.54254	36.24246	-107.50010
800.00	5.00	319.99	799.68	8.35	-7.01	1,909,851.66886	131,352.91823	36.24248	-107.50013
1,000.00	9.00	319.99	998.15	27.01	-22.68	1,909,870.53425	131,337.49289	36.24254	-107.50018
1,200.00	13.00	319.99	1,194.44	56.24	-47.21	1,909,900.07150	131,313.34166	36.24262	-107.50026
1,400.00	17.00	319.99	1,387.58	95.88	-80.48	1,909,940.13672	131,280.58220	36.24272	-107.50038
1,600.00	21.00	319.99	1,576.65	145.74	-122.33	1,909,990.53472	131,239.37413	36.24286	-107.50052
1,713.48	23.27	319.99	1,681.76	178.49	-149.82	1,910,023.63372	131,212.31063	36.24295	-107.50061
Hold 23.27° Inc, 319.99° Az									
1,800.00	23.27	319.99	1,761.24	204.67	-171.80	1,910,050.09487	131,190.67460	36.24302	-107.50069
2,000.00	23.27	319.99	1,944.97	265.18	-222.60	1,910,111.26232	131,140.66083	36.24319	-107.50086
2,200.00	23.27	319.99	2,128.70	325.70	-273.40	1,910,172.42977	131,090.64707	36.24336	-107.50103
2,400.00	23.27	319.99	2,312.43	386.22	-324.19	1,910,233.59722	131,040.63331	36.24352	-107.50120
2,600.00	23.27	319.99	2,496.17	446.73	-374.99	1,910,294.76468	130,990.61955	36.24369	-107.50137
2,800.00	23.27	319.99	2,679.90	507.25	-425.79	1,910,355.93213	130,940.60579	36.24385	-107.50155
3,000.00	23.27	319.99	2,863.63	567.77	-476.59	1,910,417.09959	130,890.59203	36.24402	-107.50172
3,200.00	23.27	319.99	3,047.36	628.29	-527.39	1,910,478.26704	130,840.57827	36.24419	-107.50189
3,400.00	23.27	319.99	3,231.09	688.80	-578.19	1,910,539.43450	130,790.56451	36.24435	-107.50206
3,600.00	23.27	319.99	3,414.82	749.32	-628.99	1,910,600.60194	130,740.55075	36.24452	-107.50224
3,800.00	23.27	319.99	3,598.55	809.84	-679.79	1,910,661.76940	130,690.53699	36.24469	-107.50241
3,968.87	23.27	319.99	3,753.68	860.93	-722.68	1,910,713.41480	130,648.30897	36.24483	-107.50255
Start Drop -2.00									
4,000.00	22.65	319.99	3,782.35	870.24	-730.48	1,910,722.81634	130,640.62176	36.24485	-107.50258
4,200.00	18.65	319.99	3,969.47	924.24	-775.82	1,910,777.40008	130,595.99120	36.24500	-107.50273
4,400.00	14.65	319.99	4,161.05	968.11	-812.64	1,910,821.74611	130,559.73153	36.24512	-107.50286
4,600.00	10.65	319.99	4,356.15	1,001.65	-840.79	1,910,855.63838	130,532.01941	36.24521	-107.50295
4,800.00	6.65	319.99	4,553.84	1,024.67	-860.12	1,910,878.91176	130,512.98985	36.24528	-107.50302
5,000.00	2.65	319.99	4,753.14	1,037.08	-870.53	1,910,891.45288	130,502.73557	36.24531	-107.50305
5,132.35	0.00	0.00	4,885.44	1,039.42	-872.50	1,910,893.81906	130,500.80086	36.24532	-107.50306
KOP 9°/100									
5,200.00	6.09	102.51	4,952.97	1,038.64	-866.99	1,910,892.99569	130,504.29672	36.24531	-107.50305
5,400.00	24.09	102.51	5,145.28	1,027.41	-818.38	1,910,881.10889	130,554.76552	36.24528	-107.50288
5,600.00	42.09	102.51	5,312.16	1,003.85	-712.22	1,910,856.17985	130,660.60894	36.24522	-107.50252
5,799.01	60.00	102.51	5,436.77	970.45	-561.75	1,910,820.84505	130,810.63305	36.24513	-107.50201
Hold 60° Inc, 102.51° Az									
5,800.00	60.00	102.51	5,437.26	970.26	-560.92	1,910,820.64888	130,811.46593	36.24513	-107.50200
5,859.01	60.00	102.51	5,466.77	959.19	-511.03	1,910,808.93263	130,861.21065	36.24510	-107.50184
Begin 9°/100 Build									
6,000.00	72.69	102.51	5,523.22	931.27	-385.21	1,910,779.38681	130,986.65585	36.24502	-107.50141
6,200.00	90.69	102.51	5,552.01	888.56	-192.80	1,910,734.20370	131,178.49347	36.24490	-107.50076
6,201.13	90.79	102.51	5,552.00	888.32	-191.70	1,910,733.94375	131,179.59719	36.24490	-107.50075
Landing Pt 90.79° Inc, 102.51° Az - PP Chaco 2306-08E #266H									
6,400.00	90.79	102.51	5,549.26	845.23	2.43	1,910,688.35706	131,373.14823	36.24478	-107.50009
6,600.00	90.79	102.51	5,546.50	801.90	197.66	1,910,642.51041	131,567.80297	36.24466	-107.49943
6,800.00	90.79	102.51	5,543.74	758.57	392.89	1,910,596.66376	131,762.45771	36.24454	-107.49877
7,000.00	90.79	102.51	5,540.98	715.23	588.12	1,910,550.81713	131,957.11246	36.24443	-107.49811
7,200.00	90.79	102.51	5,538.22	671.90	783.35	1,910,504.97048	132,151.76720	36.24431	-107.49745
7,400.00	90.79	102.51	5,535.46	628.57	978.58	1,910,459.12383	132,346.42194	36.24419	-107.49678
7,600.00	90.79	102.51	5,532.70	585.24	1,173.81	1,910,413.27719	132,541.07668	36.24407	-107.49612
7,800.00	90.79	102.51	5,529.94	541.91	1,369.04	1,910,367.43054	132,735.73143	36.24395	-107.49546

Database: COMPASS-PICEANCE
 Company: SAN JUAN BASIN
 Project: SJ 08-23N-06W
 Site: Chaco 2306-08E
 Well: Chaco 2306-08E #266H
 Wellbore: Wellbore #1
 Design: Design #1 30Jul14 kjs

Local Co-ordinate Reference: Well Chaco 2306-08E #266H - Slot 266H
 TVD Reference: WELL @ 6859.00usft (Original Well Elev)
 MD Reference: WELL @ 6859.00usft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,000.00	90.79	102.51	5,527.18	498.58	1,564.27	1,910,321.58389	132,930.38617	36.24383	-107.49480
8,200.00	90.79	102.51	5,524.42	455.24	1,759.50	1,910,275.73725	133,125.04091	36.24371	-107.49414
8,400.00	90.79	102.51	5,521.66	411.91	1,954.73	1,910,229.89060	133,319.69565	36.24359	-107.49347
8,600.00	90.79	102.51	5,518.90	368.58	2,149.96	1,910,184.04395	133,514.35040	36.24347	-107.49281
8,800.00	90.79	102.51	5,516.14	325.25	2,345.19	1,910,138.19732	133,709.00514	36.24335	-107.49215
9,000.00	90.79	102.51	5,513.38	281.92	2,540.42	1,910,092.35067	133,903.65988	36.24323	-107.49149
9,200.00	90.79	102.51	5,510.62	238.59	2,735.65	1,910,046.50403	134,098.31462	36.24312	-107.49083
9,400.00	90.79	102.51	5,507.86	195.26	2,930.88	1,910,000.65738	134,292.96937	36.24300	-107.49017
9,600.00	90.79	102.51	5,505.10	151.92	3,126.11	1,909,954.81073	134,487.62411	36.24288	-107.48950
9,800.00	90.79	102.51	5,502.34	108.59	3,321.34	1,909,908.96409	134,682.27885	36.24276	-107.48884
10,000.00	90.79	102.51	5,499.58	65.26	3,516.57	1,909,863.11744	134,876.93359	36.24264	-107.48818
10,200.00	90.79	102.51	5,496.82	21.93	3,711.80	1,909,817.27079	135,071.58834	36.24252	-107.48752
10,400.00	90.79	102.51	5,494.06	-21.40	3,907.03	1,909,771.42416	135,266.24308	36.24240	-107.48686
10,600.00	90.79	102.51	5,491.30	-64.73	4,102.26	1,909,725.57751	135,460.89782	36.24228	-107.48619
10,800.00	90.79	102.51	5,488.54	-108.07	4,297.49	1,909,679.73086	135,655.55256	36.24216	-107.48553
11,000.00	90.79	102.51	5,485.78	-151.40	4,492.72	1,909,633.88422	135,850.20731	36.24204	-107.48487
11,200.00	90.79	102.51	5,483.02	-194.73	4,687.95	1,909,588.03757	136,044.86205	36.24192	-107.48421
11,273.97	90.79	102.51	5,482.00	-210.76	4,760.15	1,909,571.08092	136,116.85623	36.24188	-107.48396

TD at 11273.97 - TD / PBHL Chaco 2306-08E #266H

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
TD / PBHL Chaco 2306- - plan hits target center - Point	0.00	0.00	5,482.00	-210.76	4,760.15	1,909,571.08092	136,116.85623	36.24188	-107.48396
PP Chaco 2306-08E #266 - plan hits target center - Point	0.00	0.00	5,552.00	888.32	-191.70	1,910,733.94535	131,179.59758	36.24490	-107.50075

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
550.00	550.00	0.00	0.00	Start Build 2.00
1,713.48	1,681.76	178.49	-149.82	Hold 23.27° Inc, 319.99° Az
3,968.87	3,753.68	860.93	-722.68	Start Drop -2.00
5,132.35	4,885.44	1,039.42	-872.50	KOP 9°/100
5,799.01	5,436.77	970.45	-561.75	Hold 60° Inc, 102.51° Az
5,859.01	5,466.77	959.19	-511.03	Begin 9°/100 Build
6,201.13	5,552.00	888.32	-191.70	Landing Pt 90.79° Inc, 102.51° Az
11,273.97	5,482.00	-210.76	4,760.15	TD at 11273.97

1. INTRODUCTION

WPX Energy Production, LLC (WPX), is providing this Surface Use Plan of Operations (SUPO)/Plan of Operations (POD) to the Bureau of Land Management – Farmington Field Office (BLM-FFO) as part of their Chaco 2306-08E Nos. 197H, 198H, 266H and 267H (197H/198H/266H/267H) Applications for Permit to Drill (APDs) and Right-of-Way (ROW) Grant Applications. This SUPO/POD is provided per Onshore Oil and Gas Order No. 1, 43 Code of Federal Regulations (CFR) 2804.12, 43 CFR 2884.11, BLM Manual Section 2804 (Applying for Federal Land Policy and Management Act [FLPMA] Grants), and BLM FLPMA ROW Manual Section 2884 (Applying for a Mineral Leasing Act Grant or a Temporary Use Permit).

The 197H/198H/266H/267H wells will each be permitted by an approved APD. The associated well pad (including construction zone), access road, and well-connect pipeline, all of which have portions that are located off-lease, will each be permitted under a ROW Grant.

The project will include three TUAs. These TUAs were already authorized during the approval process for WPX's Chaco 2306-06L Nos. 178H, 179H, and 239H (178H/179H/239H) oil and natural gas wells project. Therefore, the use of these existing well pads as TUAs has already been authorized under an agreement between WPX and the corresponding operators. The three TUAs include of the following:

- Elm Ridge Exploration Company, LLC's (Elm Ridge's) active Grace Federal 6 No. 2 well pad
- Elm Ridge's plugged and abandoned Marcus No. 5 well pad
- Bannon Energy Inc.'s (Bannon's) plugged and abandoned Grace Federal 6 No. 1 well pad

A pre-disturbance onsite meeting for the project was held on March 26, 2014. The BLM, WPX, and an environmental consultant (Nelson Consulting, Inc.) attended the meeting.

In addition to the best management practices (BMPs) provided below and in the Surface Reclamation Plan (Reclamation Plan; Appendix A), the general Conditions of Approval/stipulations will be followed, if any are attached to the approved APDs/ROW Grants.

2. PROJECT LOCATION AND DESCRIPTION

2.1. Project Location

The project area is located in Rio Arriba County, New Mexico. The project area is located approximately 41.0 miles southeast of the town of Bloomfield, New Mexico. To access the project area from Bloomfield, head southward on U.S. Highway 550 from the U.S. Highway 550-U.S. Highway 64 intersection for approximately 50.0 miles, turn left onto an existing road near an existing landing strip in Escrito Canyon, follow the road north for approximately 1.0 mile, and then left onto an existing road for approximately 0.2 miles to the start of the 197H/198H/266H/267H access road. The access route from U.S. Highway 550 is depicted on Figure B.1 (Appendix B) and on the construction plats provided in the APD/ROW Grant permit packages.

The legal location of the project area is described in the below table (New Mexico Principal Meridian [NMPM]). The project features are depicted on Figures B.1 and B.2 (Appendix B).

9. METHODS FOR HANDLING WASTE DISPOSAL

- ✓ Drilling operations will utilize a closed-loop system. Drilling of the horizontal lateral will be accomplished with water-based mud. All cuttings will be hauled to a commercial disposal facility or land farm. WPX will follow New Mexico Oil Conservation Division "Pit Rule" guidelines and Onshore Order No. 1 regarding the placement, operation, and removal of closed-loop systems. No blow pit will be used.

If drilling has not been initiated on the well pad within 120 days of the well pad being constructed, the operator will submit a site-stabilization plan to the BLM-FFO.

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 construction, as needed (see Figures B.3 and B.4 [Appendix B] for the location of toilet[s] and trash receptacle[s]).

10. ANCILLARY FACILITIES

Three potential TUAs will be used; these are described in Section 2.2 (Project Description).

During staging, WPX will stay within the boundaries of the previously disturbed well pads associated with the TUAs. During interim (post-construction) reclamation, WPX will repair any damage to and reseed the TUAs (with the exception of portions of well pads that Elm Ridge or Bannon prefers to remain unseeded).

11. WELL SITE LAYOUT

The approximate cuts, approximate fills, and orientation for the well pad are depicted on the construction plats in the APD/ROW Grant permit packages. Rig orientation and the location of drilling equipment and topsoil or spoil material stockpiles are depicted on Figures B.3 and B.4 (Appendix B). The layout of the completions rigs is depicted on Figure B.4 (Appendix B). The interim reclamation/long-term disturbance layout is depicted on Figure B.5 (Appendix B) and is described below.

- The following areas (known as the "non-reseed working areas") will remain unreclaimed throughout the lifetime of the project:
 - Production facilities will be located within a 300-by-100-foot (0.7-acre) facility area at the western end of the well pad.
 - The teardrop for the well pad will include a looped, 35-foot-wide driving surface, totaling approximately 0.3 acre.
- The following areas (known as the "reseed working areas") will be reseeded (but not recontoured) during interim (post-construction) reclamation:
 - The center of the teardrop will measure approximately 0.2 acre.
 - A 210-by-180-foot (0.9-acre) potential workover area will surround each wellhead. This area may be used for future activities within the well pad, but will not be used for daily activities. After excluding the portions of these polygons that overlap one another, the teardrop, and the teardrop center, this area measures approximately 0.9 acre.

3000 PSI BOP Schematic

