State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

David Martin Cabinet Secretary David R. Catanach Division Director Oil Conservation Division



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

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: 10/26/15 Well information; Operator WPX , Well Name and Number Chaco 2307-069 #913 H
API# 30-039-3/35/, Section 6, Township 23 N/S, Range 7 EW
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 NSL - BHL + Leteral O section line
o 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.
Well-bore communication is regulated under 19.15.29 NMAC. This requires well-bore Communication to be reported in accordance with 19.15.29.8.

NMOCD Approved by Signature

2-11-2016 Date 1 >

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

OIL CONS. DIV DIST

Expires January 31, 2004

DEC 2 4 2015

5. Lease Serial No. NMNM 023050

6. If Indian, Allottee or Tribe Name

ı,								
4	PPL	.IC	AHON	FOR	PERMIT TO	DRILL	OR	REENTER

				4/00	MD.
la. Type of Work: 🛛 DRILL 🔲 REF	ENTER			7. If Unit or CA Agreemen	nt, Name and No.
1b. Type of Well:	⊠ s	ingle Zone	tiple Zone	8. Lease Name and Well No Chaco 2307-06G #9131	900
2. Name of Operator				9. API Well No.	21
WPX Energy Production, LLC	1			30-039-	31351
3a. Address	3b. Phone No	o. (include area code)		10. Field and Pool, or Explo	oratory
P.O. Box 640 Aztec, NM 87410	(505) 33			Basin Mancos / Lybrook C	
4. Location of Well (Report location clearly and in accordance with At surface 1,647' FNL & 2,337' FEL, sec 6, T23N, R7W At proposed prod. zone 330' FNL & 330' FWL, sec 1, T23N		ents. *)	SWNE	11. Sec., T., R., M., or Blk. SHL: Sec 6, T23N, R7V BHL: Sec 1, T23N, R8V	v
14. Distance in miles and direction from nearest town or post offic	ce*			12. County or Parish	13. State
approximately 4.5 miles northwest of Lybrook, New Mexico				Rio Arriba County	NM
15. Distance from proposed*	16. No. of A	Acres in lease	17. Spacing	g Unit dedicated to this well	
location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1,647	80C 241:26). 48 acres		es – S/2 NW/4 Section 6, T231 n 1, T23N, R8W	N, R7W
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 20	19. Propose	d Depth MD / 5,293' TVD	20. BLM/E	BIA Bond No. on file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		imate date work will		23. Estimated duration	
6,970' GR		ber 1, 2015		1 month	
	24. Atta				
The following, completed in accordance with the requirements of O	nshore Oil and Gas	Order No.1, shall be at	tached to this	form:	
Well plat certified by a registered surveyor.				unless covered by an existing	ng bond on file (see
2. A Drilling Plan.		Item 20 above). 5. Operator certific			
 A Surface Use Plan (if the location is on National Forest Sys SUPO shall be filed with the appropriate Forest Service Off 			specific info	rmation and/or plans as may	be required by the
5. Signature	Name	(Printed/Typed)		Date	
	Lace	y Granillo		10/26	5/2015
Title Permit Technician III					
Approved by (Signature)	Name	(Printed/Typed)		Date	12/18/18
Title 9 AFM	Office	FFC			, ,
Application approval does not warrant or certify that the applicant haperations thereon. Conditions of approval, if any, are attached.	olds legal or equitab	le title to those rights i	n the subject l	ease which would entitle the a	pplicant to conduct

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 Basin Mancos / Lybrook Gallup formation 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 on lease and will be twinned with the Chaco 2307-06G #161H and Chaco 2307-06G #274H. This location is on FEE surface and a Surface Use Agreement has been secured.

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

ACTION DOES NOT RELIEVE THE LESSEE AND The access road for the Chaco 2307-06G #161H and Chaco 2307-06G #274H will be utilized OBTAINING ANY OTHER

The pipeline for the Chaco 2307-06G #161H and Chaco 2307-06G #274H WIP LONG LONG REQUIRED FOR OPERATIONS

ON SEPREMAN AND PROPERATIONS

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

ON FEDERAL AND INDIAN LANDS

AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"



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

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

Form C-102 Revised August 1, 2011

Submit one copy to Appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number		Pool Code	Pool Name	
30.039.	31351	97232 / 42289	BASIN MANCOS / LYBROOK	GALLUP
*Property Code			operty Name D 2307-06G	*Well Number 913H
'OGRID No. 120782			PRODUCTION, LLC	*Elevation 6970'

10 Surface Location UL or lot no Sect ton Lot Idn Feet from the North/South line Feet from the East/West line RTÓ **23N** NORTH 2337 EAST 7W 1647 G 6 ARRIBA 11 Bottom Hole Location If Different From Surface UL or lot no. Township Range Lot Idn Feet from the North/South line Feet from the Fast/West line County Section 330 NORTH 330 WEST SAN JUAN D NES. 8W 4 12 Dedicated Joint or Infill 14 Consolidation Code 15 Order No. S/2 NW/4 - Sec 6, T23N, R7W Sec 1, T23N, R8W 400.94 N/2 -

> 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 330' FNL 330' FWL SECTION 1, T23N, FIBW LAT: 36.262613'N LONG: 107.640523'W DATUM: NAD1927

LAT: 36.262625 *N LONG: 107.641133 *W DATUM: NAD1983

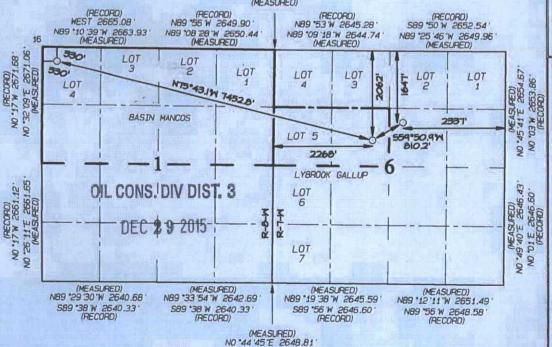
POINT-OF-ENTRY 2062 FNL 2268 FWL SECTION 6, T23N, R7W LAT: 327645 FN LONG: 107.615944 W DATUM: NAD1927

LAT: 36.257858 N LONG: 107.616553 W DATUM: NAD1983

SURFACE LOCATION 1647' FNL 2337' FEL SECTION 6, T23N, R/W LAT: 36.258990 'N LONG: 107.613588' W DATUM: NAD1927

LAT: 36.259003 *N LONG: 107.514196 *W DATUM: NAD1983

(RECORO) NO *06 E 2649.24 NO *53 '41 'E 2649.77 (MEASUREO)



NO *03 W 2647.92 (RECORD)



Certificate Number

15269

" OPERATOR CERTIFICATION



WPX Energy

Operations Plan

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

Date:

October 28, 2015

Field:

BASIN MANCOS/ LYBROOK GALLUP

Well Name:

Chaco 2307-06G #913H

Surface:

SH Location:

SWNE Sec 6 23N-07W

Elevation:

6970' GR

BH Location:

I. GEOLOGY:

NWNW Sec 1 23N-08W

Minerals:

Measured Depth: 13,213.00

SURFACE FORMATION - NACIMIENTO

A. FORMATION TOPS (KB)

NAME	MD	TVD	NAME	MD	TVD
					AR WILL
OJO ALAMO	1227	1225	POINT LOOKOUT	4299	4266
KIRTLAND	1397	1393	MANCOS	4532	4497
PICTURED CLIFFS	1940	1931	GALLUP	4907	4865
LEWIS	2033	2023	KICKOFF POINT	5,365.43	5,209.71
CHACRA	2306	2293	TOP TARGET	2107	5341
CLIFF HOUSE	3460	3435	LANDING POINT	5,761.50	5,325.00
MENEFEE	3503	3478	BASE TARGET	5,761.50	5,325.00
			TD	13,213.00	5,293.00

- B. MUD LOGGING PROGRAM: Mudlogger on location from surface csg to TD.
- C. LOGGING PROGRAM: LWD GR from surface casing to TD.
- **D. NATURAL GAUGES:** Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

II. DRILLING

- A. <u>MUD PROGRAM:</u> LSND mud (WBM) will be used to drill the 12-1/4" Surface hole, the 8 3/4" Directional Vertical hole, and the curve portion of the wellbore. A LSND (WBM) or (OBM) will be used to drill the lateral portion of well. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses.
- B. <u>BOP TESTING:</u> While drill pipe is in use, the pipe rams and the blind rams will be function tested once each trip. The anticipated reservoir is expected to be less than 1300 psi, so the BOPE will be tested to 250 psi (Low) for 5 minutes and 1500 psi (High) for 10 minutes. Pressure test surface casing to 600 psi for 30 minutes and intermediate casing to 1500 psi for 30 minutes. Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. The drum brakes will be inspected and tested each tour. All tests and inspections will be recorded in the tour book as to time and results.

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	OH SIZE (IN)	DEPTH (MD)	CSG SIZE	WEIGHT	GRADE	CONN
SURFACE	12.25"	320'	9.625"	36 LBS	J-55 or equiv	STC
INTERMEDIATE	8.75"	5,761.50'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	5611.5' - 13,213.00'	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf 5611.5'	4.5"	11.6 LBS	P-110 or equiv	LTC

B. FLOAT EQUIPMENT:

- 1. <u>SURFACE CASING:</u> 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.
- 2. <u>INTERMEDIATE CASING:</u> 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 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft.
- 3. <u>PRODUCTION LINER:</u> Run 4-1/2" Liner with cement nose guide Float Shoe + 2jts. of 4-1/2" casing + Landing Collar + 4-1/2" pup joint + 1 RSI (Sliding Sleeve) positioned inside the 330ft Hard line. Centralizer program will be determined by Wellbore condition and when Lateral is evaluated by Geoscientists and Reservoir Engineers. Set seals on Liner Hanger. Test TOL to 1500 psi for 15 minutes.

C. CEMENTING:

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

- 1.<u>Surface</u> 5 bbl Fresh Water Spacer, 100 sx (160 cu.ft.) of 14.5 ppg Type I-II (Neat G) + 20% Fly Ash cement w/ 7.41 gal/sack mix water ratio @ 1.61 cu ft/sx yield. Calculated @ volume + 50% excess. WOC 12 hours. Test csg to 600psi. Total Volume: (160 cu-ft/100 sx/ Bbls).TOC at Surface.
- 2.Intermediate

 20 bbl (112 cu-ft) Mud Flush III spacer + Lead: +/- 700 sx Foamed 50/50 Poz Cement. 13.0 ppg + 0.1% Halad 766 + 0.2% Versaset + 1.5% Chem-Foamer 760 (Yield: 1.43 cu-ft/ sk. / Vol: 1001 cu-ft / 178.3 Bbls.) + TAIL: 100 sx 13.5 #/gal. + 0.2% Versaset + 0.15% HALAD-766 (Yield: 1.28 cu-ft / sk / Vol: 128 cu-ft / 22.8 Bbls.). + Fresh Water Displacement (1,362 cu-ft / +/- 242 Bbls) + 100 sx Top-Out Cement Premium: Yield: (1.17 cu-ft/ sk / (Vol: 117 cu-ft / 20.8 Bbls). WOC 12 hrs. Test Casing to 1500 PSI for 30 minutes. Total Cement Volume: (900 sx / 1246 cu-ft / 222 bbls). Mix with +/- 84,000 SCF Nitrogen. TOC at surface.
- 3. PROD. LINER: Spacer #1:10 bbl (56.cu-ft) Water Spacer. Spacer #2: 40 bbl 9.5 ppg (224.6 cu-ft) Tuned Spacer III. Spacer #3: 10 bbl Water Spacer. Lead Cement: Extencem ™ System. Yield 1.36 cuft/sk 13.3 ppg (745 sx /1013 cuft /180 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/- 140 bbl Fr Water. Total Cement (745 sx /1013bbls).

COMPLETION A. CBL

Run CCL for perforating

A. PRESSURE TEST

1. Pressure test 4-1/2" casing to 4500 psi max, hold at 1500 psi for 30 minutes. Increase pressure to Open RSI sleeves.

B. STIMULATION

- 1. Stimulate with approximately 2,805,000# 20/40 mesh sand and 340,000# 16/30 mesh sand in 619,113 gallons water with 42,696 mscf N2 for 17 stages.
- 2. Isolate stages with flow through frac plug.
- 3. Drill out frac plugs and flowback lateral.

C. RUNNING TUBING

- 1. <u>Production Tubing:</u> Run 2-7/8", 6.5#, J-55, EUE tubing with a SN on top of bottom joint. Land tubing near Top of Liner.
- Although this horizontal well will be drilled past the applicable setbacks, an unorthodox location application is not required because the completed interval in this well, as defined by 19.15.16.7 B(1) NMAC, will be entirely within the applicable setbacks. This approach complies with all applicable rules, including 19.15.16.14 A(3) NMAC, 19.15.16.14 B(2) NMAC, 19.15.16.15 B(2)NMAC, and 19.15.16.15. B(4) NMAC.

NOTE:

Proposed Operations:

A 4-1/2" 11.6# N-80 Liner will be run to TD and landed +/- 150 ft. into the 7" 23# K-55 Intermediate casing with a Liner Hanger and pack-off assembly then cemented to top of liner hanger.

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

WPX Energy

T23N R7W Chaco 2307-06G Chaco 2307-06G #913H

Wellbore #1

Plan: Design #1 20Oct15 sam

Standard Planning Report

20 October, 2015

Planning Report

OIL CONS. DIV DIST. 3

DEC 2 4 2015

Database: Company: Project: Site:

Wellbore:

Design:

Well:

4

COMPASS WPX Energy **T23N R7W** Chaco 2307-06G Chaco 2307-06G #913H

Wellbore #1 Design #1 20Oct15 sam Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Chaco 2307-06G #913H KB @ 6995.00usft (Aztec 1000)

KB @ 6995.00usft (Aztec 1000)

True

Minimum Curvature

Project

T23N R7W

Map System: Geo Datum: Map Zone:

US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS)

New Mexico West 3003

System Datum:

Mean Sea Level

Site

Well Position

Wellbore

Well

Chaco 2307-06G

Site Position: From:

Lat/Long

Northing: Easting: Slot Radius: 1,913,587.46 usft 564,766.55 usft 13.200 in Latitude: Longitude: **Grid Convergence:**

36.258989 -107.613655 0.13

Position Uncertainty:

Chaco 2307-06G #913H

0.38 usft

0.00 usft

19.90 usft

0.00 usft

Northing: Easting:

1,913,587.89 usft 564,786.45 usft Wellhead Elevation:

Latitude: Longitude: Ground Level:

36.258990 -107.613588 6,970.00 usft

Position Uncertainty

Wellbore #1

Magnetics **Model Name**

+N/-S

+E/-W

Sample Date IGRF2010 10/20/2015 Declination (°) 9.24 Dip Angle (°) 62.97 Field Strength (nT)

50,045

Design **Audit Notes:**

Design #1 20Oct15 sam

Version:

Phase: Depth From (TVD)

PLAN +N/-S (usft) Tie On Depth:

0.00

Vertical Section:

(usft) 0.00

0.00

+E/-W (usft) 0.00

0.00 usft

Direction (bearing) 279.44

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	
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,156.75	8.13	180.91	1,155.38	-28.82	-0.46	2.00	2.00	0.00	180.91	
4,675.71	8.13	180.91	4,638.93	-526.71	-8.39	0.00	0.00	0.00	0.00	
5,365.43	60.00	283.48	5,209.71	-503.60	-331.88	9.00	7.52	14.87	106.93	Start 60 tan 913H
5,425.43	60.00	283.48	5,239.71	-491.49	-382.41	0.00	0.00	0.00	0.00	End 60 tan 913H
5,590.30	74.84	283.48	5,302.84	-456.12	-530.03	9.00	9.00	0.00	0.00	
5,761.50	90.25	283.48	5,325.00	-416.68	-694.62	9.00	9.00	0.00	0.00	POE 913H
13,213.00	90.25	283.48	5,293.00	1,319.74	-7,940.91	0.00	0.00	0.00	0.00	BHL 913H

WPX

Planning Report

 Database:
 COMPASS

 Company:
 WPX Energy

 Project:
 T23N R7W

 Site:
 Chaco 2307-06G

 Well:
 Chaco 2307-06G #913H

Wellbore: Wellbore #1
Design: Design #1 20Oct15 sam

Local Co-ordinate Reference: TVD Reference:

MD Reference:
North Reference:
Survey Calculation Method:

Well Chaco 2307-06G #913H KB @ 6995.00usft (Aztec 1000) KB @ 6995.00usft (Aztec 1000)

Minimum Curvature

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
320.00	0.00	0.00	320.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"	PERMISSION				THE REAL PROPERTY.	TANKEL IN		EHALLEN.	A T 11.45-14
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
750.00	0.00	0.00	750.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.0		100.04	200.00	10.00	0.47	1.00	0.00	0.00	0.00
1,000.00	5.00	180.91	999.68	-10.90	-0.17	-1.62	2.00	2.00	0.00
1,156.75	8.13	180.91	1,155.38	-28.82	-0.46	-4.27	2.00	2.00	0.00
Hold 8.13 Incli	ination		NEW PERSON	HE STEEL ST	THE VENT	Mary Alban	MARKET ST.		
1,500.00	8.13	180.91	1,495.18	-77.39	-1.23	-11.47	0.00	0.00	0.00
2,000.00	8.13	180.91	1,990.15	-148.13	-2.36	-21.96	0.00	0.00	0.00
2,500.00	8.13	180.91	2,485.12	-218.88	-3.49	-32.45	0.00	0.00	0.00
3,000.00	8.13	180.91	2,980.09	-289.62	-4.61	-42.93	0.00	0.00	0.00
3,500.00	8.13	180.91	3,475.06	-360.36	-5.74	-53.42	0.00	0.00	0.00
4,000.00	8.13	180.91	3,970.02	-431.11	-6.86	-63.91	0.00	0.00	0.00
4,500.00	8.13	180.91	4,464.99	-501.85	-7.99	-74.39	0.00	0.00	0.00
4,675.71	8.13	180.91	4,638.93	-526.71	-8.39	-78.08	0.00	0.00	0.00
Start Build DL	S 9.00 TFO 10	6.93							
5,000.00	27.83	273.00	4,949.59	-546.11	-86.03	-4.67	9.00	6.07	28.40
5,365.43	60.00	283.48	5,209.71	-503.60	-331.88	244.83	9.00	8.80	2.87
Hold 60.00 Inc	0727777	EVILLE RESERVE							
5,425.43	60.00	283,48	5,239.71	-491.49	-382,41	296.66	0.00	0.00	0.00
Start Build DL	-	LICE LINE			THE PROPERTY				
5,500.00	66.71	283,48	5,273.13	-475.97	-447.19	363.10	9.00	9.00	0.00
5,590.30	74.84	283.48	5,302.84	-456.12	-530.03	448.08	9.00	9.00	0.00
Start DLS 9.00		BALL BENT		BEING THE		THE PERSON		E X SECTION	
5,761.50	90.25	283.48	5,325.00	-416.68	-694.62	616.90	9.00	9.00	0.00
POE at 90.25 l	A CONTRACTOR OF THE PARTY OF TH				THE PARTY OF THE P	DINHERWA	- IST STEP		
		The second second	5 000 00	204.40	200 55	054.04	0.00	0.00	0.00
6,000.00	90.25	283.48	5,323.98	-361.10	-926.55	854.81	0.00	0.00	0.00
6,500.00 7,000.00	90.25 90.25	283.48 283.48	5,321.83 5,319.68	-244.58 -128.07	-1,412.78 -1,899.01	1,353.56 1,852.32	0.00	0.00	0.00
7,500.00	90.25	283.48	5,319.58	-128.07	-2,385.24	2,351.07	0.00	0.00	0.00
8,000.00	90.25	283.48	5,317.53	104.96	-2,385.24	2,849.82	0.00	0.00	0.00
			31						
8,500.00	90.25	283.48	5,313.24	221.47	-3,357.70	3,348.58	0.00	0.00	0.00
9,000.00	90.25	283.48	5,311.09	337.99	-3,843.93	3,847.33	0.00	0.00	0.00
9,500.00	90.25	283.48	5,308.95	454.50	-4,330.16	4,346.08	0.00	0.00	0.00
10,000.00	90.25	283.48	5,306.80	571.02	-4,816.39	4,844.84	0.00	0.00	0.00
10,500.00	90.25	283.48	5,304.65	687.53	-5,302.62	5,343.59	0.00	0.00	0.00
11,000.00	90.25	283.48	5,302.50	804.04	-5,788.85	5,842.34	0.00	0.00	0.00
11,500.00	90.25	283.48	5,300.36	920.56	-6,275.08	6,341.10	0.00	0.00	0.00
12,000.00	90.25	283.48	5,298.21	1,037.07	-6,761.31	6,839.85	0.00	0.00	0.00
12,500.00	90.25	283.48	5,296.06	1,153.59	-7,247.54	7,338.60	0.00	0.00	0.00
13,000.00	90.25	283.48	5,293.91	1,270.10	-7,733.77	7,837.36	0.00	0.00	0.00
13,213.00	90.25	283.48	5,293.00	1,319.74	-7,940.91	8,049.83	0.00	0.00	0.00

WPX

Planning Report

 Database:
 COMPASS

 Company:
 WPX Energy

 Project:
 T23N R7W

 Site:
 Chaco 2307-06G

 Well:
 Chaco 2307-06G #913

Chaco 2307-06G #913H Wellbore #1

Wellbore: Wellbore #1
Design: Design #1 20Oct15 sam

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Chaco 2307-06G #913H

KB @ 6995.00usft (Aztec 1000) KB @ 6995.00usft (Aztec 1000)

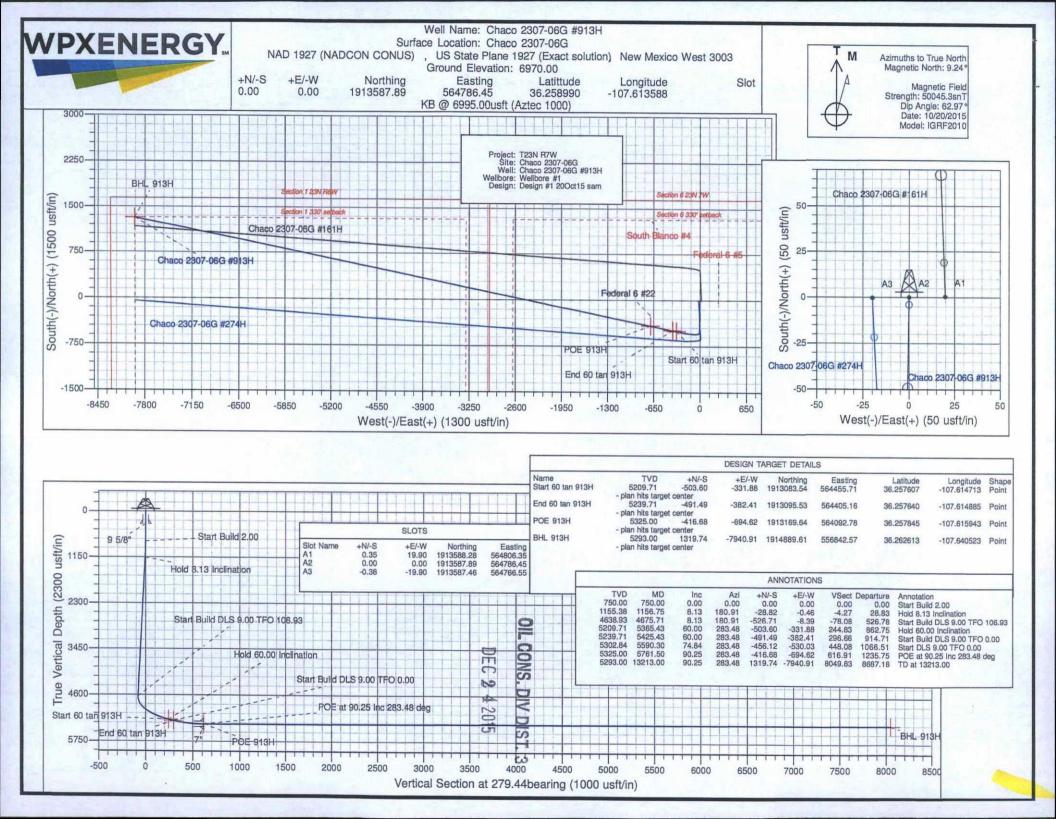
True

Minimum Curvature

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (bearing	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Start 60 tan 913H - plan hits target cent - Point	0.00 ter	0.00	5,209.71	-503.60	-331.88	1,913,083.54	564,455.72	36.257607	-107.614713
End 60 tan 913H - plan hits target cent - Point	0.00 er	0.00	5,239.71	-491.49	-382.41	1,913,095.54	564,405.16	36.257640	-107.614885
BHL 913H - plan hits target cent - Point	0.00 er	0,00	5,293.00	1,319.74	-7,940.91	1,914,889.61	556,842.57	36.262613	-107.640523
POE 913H - plan hits target cent - Point	0.00 er	0,00	5,325.00	-416.68	-694.62	1,913,169.64	564,092.78	36.257845	-107.615944

Casing Points						
	Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (in)	Hole Diameter (in)
	320.00	320.00	9 5/8"		9.625	12.250
	5,761.50	5,325.00	7"		7.000	8.750

Measured	Measured Vertical		dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
750.0	750.00	0.00	0.00	Start Build 2.00
1,156.7	1,155.38	-28.82	-0.46	Hold 8.13 Inclination
4,675.7	4,638.93	-526.71	-8.39	Start Build DLS 9.00 TFO 106.93
5,365.4	5,209.71	-503.60	-331.88	Hold 60.00 Inclination
5,425.4	5,239.71	-491.49	-382.41	Start Build DLS 9.00 TFO 0.00
5,590.3	5,302.84	-456.12	-530.03	Start DLS 9.00 TFO 0.00
5,761.5	5,325.00	-416.68	-694.62	POE at 90.25 Inc 283.48 deg
13,213.0	5,293.00	1,319.74	-7,940.91	TD at 13213.00



7.0 Methods for Handling Waste

A. Cuttings

- Drilling operations will utilize a closed-loop system. Drilling of the horizontal laterals will be
 accomplished with water-based mud. All cuttings will be placed in roll-off bins and hauled to
 a commercial disposal facility or land farm. WPX will follow Onshore Oil and Gas Order No. 1
 regarding the placement, operation, and removal of closed-loop systems. No blow pit will be
 used.
- 2. Closed-loop tanks will be adequately sized for containment of all fluids.

B. Drilling Fluids

 Drilling fluids will be stored onsite in above-ground storage tanks. Upon termination of drilling operations, the drilling fluids will be recycled and transferred to other permitted closed-loop systems or returned to the vendor for reuse, as practical. All residual fluids will be hauled to a commercial disposal facility.

C. Spills

1. Any spills of non-freshwater fluids will be immediately cleaned up and removed to an approved disposal site.

D. Sewage

1. Portable toilets will be provided and maintained during construction, as needed (see Figure 4 in Appendix A for the location of toilets).

E. Garbage and other water material

 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.

F. Hazardous Waste

- No chemicals subject to reporting under Superfund Amendments and Reauthorization
 Act Title III in an amount equal to or greater than 10,000 pounds will be used, produced,
 stored, transported, or disposed of annually in association with the drilling, testing, or
 completing of these wells.
- No extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of these wells.
- 3. All fluids (i.e., scrubber cleaners) used during washing of production equipment will be properly disposed of to avoid ground contamination or hazard to livestock or wildlife.

G. Produced Water:

- WPX Energy will dispose of produced water from this well at one of the following facilities:
 - a. Lybrook Yard WDW #1, API #30-039-27533, NMOCD permit #SWD-907, operated by Elm Ridge Resources, located in NE ¼, Section 14, Township 23 North, Range 7 West
 - b. Jillson Federal #1, NMOCD order #R-10168, operated by ConocoPhillips, located in NW ¼, Section 8, Township 24 North, Range 3 West
 - c. Basin Disposal, permit #NM-01-005, located in the NW ¼, Section 3, Township 29 North, Range 11 West
 - d. Sunco SWD #001, API #30-045-28653, NMOCD permit SWD-457, operated by Key Energy, located in NW ¼, Section 2, Township 29 North, Range 12 West
- 2. Water will be hauled by truck. Some produced water may also be used in drilling and completion operations as an alternative disposal method.

Directions from the Intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM to WPX Energy Production, LLC Chaco 2307-06G #913H 1647' FNL & 2337' FEL, Section 6, T23N, R7W, N.M.P.M., Rio Arriba County, NM

Latitude: 36.259003°N Longitude: 107.614196°W Datum: NAD1983

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Southerly on US Hwy 550 for 43.0 miles to Mile Marker 108.2;

Go Left (Northerly) on County Road #7998 for 0.3 miles to fork in roadway:

Go Right (North-Easterly) for 0.3 miles to fork in roadway;

Go Right (Easterly) for 0.6 miles to fork in roadway;

Go Left (Easterly) which is straight for 0.4 miles to new access on right-hand side of roadway which continues for 3863.7° to staked Chaco 2307-06G #913H location.

