State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

David Martin Cabinet Secretary

Brett F. Woods, Ph.D. Deputy Cabinet Secretary David R. Catanach 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 <u>3160-3</u> APD form.

Operator Signature Date: <u>9/28/15</u> Well information; Operator <u>WPX</u>, Well Name and Number <u>chaco</u> <u>2307-069</u>[#]274H

API# <u>30-039-3/343</u>, Section <u>6</u>, Township <u>23</u> NS, Range <u>7</u> EW

Conditions of Approval:

(See the below checked and handwritten conditions)

- X 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.

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

Date

1220 South St. Francis Drive • Santa Fe, New Mexico 87505 Phone (505) 476-3460 • Fax (505) 476-3462 • www.emnrd.state.nm.us/ocd

		4	and the second	(* m.
	OIL CONS	DIV DIST	3	
Form 3160-3 (September 2001)		2 2 2015	FORM A OMB No. Expires Jan	PPROVED 1004-0136 uary 31, 2004 RECEIVED or Tribe Name
UNITED STATES DEPARTMENT OF THE INT			5. Lease Serial No.	EIVE
BUREAU OF LAND MANAGE			N0-G-1312-1850	SED CD
APPLICATION FOR PERMIT TO DRIL	L OR REENTER		Bures	armine 2015
la. Type of Work: 🛛 DRILL 🗌 REENTER			7. If Unit or CA Agre	entent, Name and No.
1b. Type of Well: Oil Well Gas Well Other	Single Zone	ultiple Zone	8. Lease Name and We	'do0
2. Name of Operator			Chaco 2307-06G # 9. API Well No.	2/4H MONI
WPX Energy Production, LLC			30-0	39-31343
3a. Address 3	b. Phone No. (include area code,)	10. Field and Pool, or F	Exploratory
P.O. Box 640 Aztec, NM 87410	(505) 333-1849		Basin Mancos / Lybro	ook Gallup Blk. and Survey or Area
 Location of Well (Report location clearly and in accordance with any Sta At surface 1,647' FNL & 2,357' FEL, sec 6, T23N, R7W 	ite requirements. *)			
At surface 1,647 FML & 2,557 FML, sec 0, 1251, KYW At proposed prod. zone 1,693' FML & 330' FWL, sec 1, T23N, R8W			SHL: Sec 6, T23N,	
14. Distance in miles and direction from nearest town or post office*			BHL: Sec 1, T23N, 12. County or Parish	13. State
 Distance in miles and direction from hearest town or post office* approximately 4.5 miles northwest of Lybrook, New Mexico 			Rio Arriba County	
	16. No. of Acres in lease	17. Spacing	Unit dedicated to this w	-CADIN
location to nearest			s S/2NW/4 Section 6, 7	
(Also to nearest drig. unit line, if any) 1,647'	240.30 acres		S/2 N/2 Section 1, T2	
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 40' 	 Proposed Depth 13,252' MD / 5,388' TVD 	20. BLM/B B00157	IA Bond No. on file	
	22. Approximate date work wi		23. Estimated duration	1
6,970' GR	October 30, 2015		1 month	A La Gal
	24. Attachments			
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System Lat SUPO shall be filed with the appropriate Forest Service Office). 	Item 20 above 5. Operator certi	e). fication. te specific infor		xisting bond on file (see
25. Signature	Name (Printed/Typed)		4	Date
The OV = =	Andrea Felix			09/28/2015
Regulatory Specialist Sr.	Name (Printed/Typed)			Date ()/10
Approved by (Signature) Analles la	Name (Printed Typed)			10 2/16/15
Title AFM	Office FFO			
Application approval does not warrant or certify that the applicant holds leg operations thereon. Conditions of approval, if any, are attached.	al or equitable title to those right	s in the subject le	ease which would entitle	the applicant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations as to an		and willfully to	make to any department	or agency of the United
*(Instructions on reverse)				ALL CARSON
WPX Energy Production, LLC, proposes to develop the Basin Mancos / Ly and surface use plans.	brook Gallup formation at the a	bove described lo	ocation in accordance wi	th the attached drilling
The well pad surface is under jurisdiction of the BLM and is on lease and w Use Agreement has been secured.	vill be twinned with the Chaco 2	307-06G #274H.	. This location is on FEE	surface and a Surface
This location has been archaeologically surveyed by La Plata Archeological	Consultants. Copies of their rep	port have been su	abmitted directly to the E	ILM.
A new 3,863.7 foot access road will be built to access location. ROW easer		BLM'S APP	ROVAL OR ACC	EPTANCE OF THIS
A new 5,477.3 foot pipeline will be built. ROW easements have been secu	red.	ACTION DO	DES NOT RELIEV	F THE LESSEE AND
DRILLING OPERATIONS AUTHORIZED		OPERATOR	FROM OBTAINI	NG ANY OTHER
ARE SUBJECT TO COMPLIANCE WITH		ON FEDER	ATION REQUIRE	D FOR OPERATIONS
	NMOCDY		- THE 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

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NMOCDYY

3 Form C-102 Revised August 1, 2011 District I 1625 N. French Drive, Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 State of New Mexico Energy, Minerals & Natural Resources Department Submit one copy to Appropriate District Office District II 811 S. First Street, Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 OT CONSERVATION DIVISION District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 AMENDED REPORT 1220 South St. Francis Drive Santa Fe, NM 87505 District IV 1220 S. St. Francis Drive, Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 OIL CONS. DIV DIST. 3 DEC 2 2 2015 WELL LOCATION AND ACREAGE DEDICATION PLAT APT Number Pool Code Pool Name BASIN MANCOS / LYBROOK GALLUP 30-039-31343 97232 / 42289 Well Number Property Code Property Name CHACO 2307-06G 274H Elevation OGRID NO. Operator Name 6970 120782 WPX ENERGY PRODUCTION, LLC ¹⁰ Surface Location RIO ut or lot no Section Int Ido Feet from the North/South Line Feet from the East/Mest line Township 23N 2357 7W 1647 NORTH EAST G 6 ARRIBA ¹¹ Bottom Hole Location If Different From Surface UL or lot no. Range Lot Idn North/South line Feet from the East/West line County Sectio Townsh in Feet from the 1693 NORTH 330 WEST SAN JUAN E 1 23N 8W 12 Dedicated Joint or Infill Consolidation Code Order No. ^{e Dedicated} S/2 NW/4 - Sec 6, T23N, R7W 240.30 S/2 N/2 - Sec 1, T23N, R8W 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 POINT-OF-ENTRY 2267' FNL 2268' FWL SECTION 6, T23N, R7W LAT: 36.257284'N LONG: 107.615945'W SURFACE LOCATION 1647' FNL 2357' FEL SECTION 6, T23N, R7W LAT: 36.258989 'N LONG: 107.613655 'W DATUM: NAD1927 END-OF-LATERAL 1593' FNL 330' FWL SECTION 1, T23N, RBW LAT: 36.258870'N LONG: 107.540500'W ¹⁷ OPERATOR CERTIFICATION " UPERATOR 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 pursuent 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. DATUM: NAD1927 DATUM: NAD1927 LAT: 36.257296 *N LONG: 107.616554 *W DATUM: NAD1983 LAT: 36.259002 *N LONG: 107.614264 *W DATUM: NAD1983 LAT: 36.258883 *N LONG: 107.641110 *W DATUM: NAD1983 (RECORD) NO "06"E 2649.24 09/28/2015 NO "53 '41"E 2649.77 (MEASURED) Signature Date Andrea Felix (RECORD) WEST 2665.08 (RECORD) N89 *56 W 2649.90 (RECORD) N89 '53 W 2645.28' (RECORD) 589 "50 W 2652.54" Printed Nam N89 *10 '39 'W 2663.93 (MEASURED) N89 '08 '28 'W 2650.44 (MEASURED) N89 '09 '18 W 2644.74 ' (MEASURED) NB9 *25 '46 "W 2649.96 ' (MEASURED) andrea.felix@wpxenergy.com 16 NO '17 W 2671.68' NO '17 W 2671.68' O '32'09'E 2671.06' (MEASURED) E-mail Address (MEASURED) ND *45 '41 'E 2654.67 ' NO '03 W 2653.86 ' (PECOPD) SURVEYOR CERTIFICATION LOT LOT LOT LOT LOT LOT E AU LOT LOT 5 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. 3 2 BASIN MANCOS LOT Date Revised: SEPTEMBER 28, 2015 Date of Survey: JUNE 12, 2015 2 2351 5 330 N64"37.3W 7263.9" 548"11.0W 2268 Signature and Seal of Professional Surveyor 0 LYBROOK GALLUP (RECORD) NO "17 W 2661.12" NO "26 '11 'E 2661.65" (MEASURED) SON C. EDWARDS (MEASURED) NO *49 *40 °E 2645.43 NO *01 E 2645.60 ° (RECORD) LOT MEXICO JEH 6 R-0-N R-1-N SCHEFOR REGISTER 15269 LOT 9 APOFESSIONA (MEASURED) N89 "29 "30 "W 2640.68 (MEASURED) N89 *19 38 W 2645.59 S89 *56 W 2646.60 ' (RECORD) (MEASURED) N89 12 11 W 2651.49 (MEASURED) N89 "33 '54 "W 2642.69" 589 "38 W 2640.33" (RECORD) S89 *38 W 2640.33 (RECORD) N89 "56 W 2648.58 (RECORD)

DWARDS

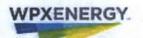
15269

ASON

Certificate Number

(MEASURED) NO *44 '45'E 2648.81 NO *03 W 2647.92'

NO "03 W 2647.92" (RECORD)



WPX ENERGY

Operations Plan

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

DATE: 9/24/2015	FIELD: BASIN	MANCOS / LYBROOK GALLUP
WELL NAME: Chaco 2307-06G #274H	SURFACE:	FEE
SH Location: SWNE Section 7 23N-07W Rio Arriba CO., NM	ELEVATION:	6970'
BH Location: SWNW Section 1 23N-08W San Juan CO., NM	MINERALS:	INDIAN ALLOTTED / FEDERAL

MEASURED DEPTH:

I. <u>GEOLOGY</u>: Surface formation – Nacimiento

Name	MD	TVD	Name	MD	TVD
Ojo Alamo	1295	1292	Point Lookout	4323	4300
Kirtland	1459	1454	Mancos	4559	4534
Picture Cliffs	1963	1955	Gallup	4913	4886
Lewis	2387	2376	Kickoff Point	4901	4855
Chacra	2361	2351	Top Target	4728	5584
Cliff House	3453	3435	Landing Point	5988	5532
Menefee	3501	3484	Base Target	5988	5532
			TD	13252.22	5388.00

A. FORMATION TOPS: (KB)

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 ¾" 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) (FT)	CASING SIZE (IN)	WEIGHT(LB)	GRADE
Surface	12.25"	320'	9.625"	36#	J-55
Intermediate	8.75"	5,990'	7"	23#	K-55
Prod. Liner	6.125"	5,840'-13,314'	4-1/2"	11.6#	N-80
Tie-Back String	N/A	Surf 5,840'	4-1/2"	11.6#	N-80

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.
- 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.
- <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.
- 4. TIE-BACK CASING: None

C. CEMENTING:

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

- <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. <u>INTERMEDIATE:</u> 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.
- PRODUCTION LINER: Spacer #1:10 bbl (56.cu-ft) Water Spacer. Spacer #2: 40 bbl 9.5 ppg (224.6 cu-ft) Tuned Spacer III. Spacer #3: 10 bbl Water Spacer. Lead Cement: Extencem ™ System. Yield 1.29 cu ft/sk, 13.5 ppg, (595 sx / 809 cu ft. / 145 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/- 178 bbl Fr Water. Total Cement (595 cu ft / 145 bbls).

IV. COMPLETION

A. CBL

1. Run CCL for perforating.

B. PRESSURE TEST

 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. <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:

Installation of RSI sleeves at Toe of Lateral.

Proposed Operations:

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

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

A 4-1/2" 11.6# N-80 tie-back string with seal assembly will be run and stung into the PBR of the liner hanger, tested to 1500 PSI and hung off at the surface. After Stimulation and Testing operations are complete the 4-1/2" tie-back string will be removed from the well.

WPX Energy

T23N R7W Chaco 2307-06G Chaco 2307-06G #274H

Wellbore #1

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Plan: Design #1 5Aug15 sam

Standard Planning Report

24 September, 2015

WPX

Planning Report

Database:	0011	DACC			Innia	andlinets Defe		Well Chaco 2307	7 060 #0741	
		PASS				ordinate Refer				
company:		Energy			TVD Refe			KB @ 6984.00us		State of the second
Project:		R7W 0 2307-06G			MD Refer			KB @ 6984.00us	sit (Aztec 920	"
Site:			7411		North Ref			True Minimum Curvat	huro	
Well:		o 2307-06G #2 ore #1	(411		Survey Ca	alculation Meti	nou:	winimum Guivat	ure	
Wellbore:		n #1 5Aug15 s								
Design:	Desig	n #1 5Aug 15 si	4/11		- Sectory	100, 165				
Project	T23N	R7W	A BROWNERS				Same and a second			
Map System:		e Plane 1927 (I			System Da	tum:	Me	ean Sea Level		
Geo Datum:		27 (NADCON C								
Map Zone:	New Me	xico West 3003	1	i la la	1.12			Sec. R. L	San in	
Site	Chaco	2307-06G		1.1.1.1			U. Talk a C			
Site Position:			Northi	ng:	1,913	,587.46 usft	Latitude:		1	36.25898
From:	Lat	/Long	Eastin	g:	564	,766.55 usft	Longitude:			-107.61365
Position Uncertai	inty:	0.0	0 usft Slot R	adius:		13.200 in	Grid Converg	ence:		0.13
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Audit Notes: Version: Vertical Section: Plan Sections Measured Depth (usft) 0.00	nclination (*) 0.00	1 #1 5Aug15 sa E Azimuth (bearing) 0.00	m Phase Depth From (TV (usft) 0.00 Vertical Depth (usft) 0.00	7/19/2015 2: P /D) +N/-S (usft) 0.00	(*) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00	9.28 Tie +E (u: 0. Dogleg Rate (*/100usft) 0.00	On Depth: /-W sft) 00 Build Rate (*/100usft) 0.00) 62.98 Dire (bez 26 Turn Rate (*/100usft) 0.00	0.00 ection aring) 9.70 TFO (°) 0.00	nT) 50,070
Audit Notes: Version: Vertical Section: Plan Sections Measured Depth (usft) 0.00 550.00	nclination (*) 0.00 0.00	Azimuth (bearing) 0.00 0.00	m Phase Depth From (TV (usft) 0.00 Vertical Depth (usft) 0.00 550.00	7/19/2015 a: P /D) +N/-S (usft) 0.00 0.00	(*) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00	9.28 Tie +E (u: 0. Dogleg Rate (*/100usft) 0.00 0.00	0 On Depth: /-W sft) 00 Build Rate (*/100usft) 0.00 0.00) 62.98 Dire (be: 26 Turn Rate (*/100usft) 0.00 0.00	0.00 ection aring) 9,70 TFO (°) 0.00 0.00	nT) 50,070
Audit Notes: Version: Vertical Section: Plan Sections Measured Depth (usft) 0.00 550.00 982.12	nclination (*) 0.00 0.00 8.64	Azimuth (bearing) 0.00 0.00 177.20	m Phase Depth From (TV (usft) 0.00 Vertical Depth (usft) 0.00 550.00 980.48	7/19/2015 2: P /D) +N/-S (usft) 0.00 0.00 -32.49	(*) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 1.59	9.28 Tie +E (u: 0. Dogleg Rate (*/100usft) 0.00 0.00 2.00	0 On Depth: /-W sft) 00 Build Rate (*/100usft) 0.00 0.00 2.00) 62.98 Dire (bez 26 Turn Rate (*/100usft) 0.00 0.00 0.00	0.00 ection aring) 9.70 TFO (°) 0.00 0.00 177.20 0.00	(nT) 50,070 Target
Audit Notes: Version: Vertical Section: Plan Sections Measured Depth (usft) 0.00 550.00 982.12 4,899.46	nclination (*) 0.00 0.00 8.64 8.64	Azimuth (bearing) 0.00 177.20 177.20	m Phase Depth From (TV (usft) 0.00 Vertical Depth (usft) 0.00 550.00 980.48 4,853.35	7/19/2015 a: P /D) +N/-S (usft) 0.00 0.00 -32.49 -620.43	(*) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 1.59 30.39	9.28 Tie +E (ur 0. Dogleg Rate (*/100usft) 0.00 0.00 2.00 0.00	0 On Depth: /-W sft) 00 Build Rate ("/100usft) 0.00 0.00 2.00 0.00) 62.98 Dire (bez 26 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00	0.00 ection aring) 9,70 TFO (*) 0.00 0.00 177.20 0.00 102.16	Target Start 60 deg tan #27
Audit Notes: Version: Vertical Section: Plan Sections Measured Depth (usft) 0.00 550.00 982.12 4,899.46 5,582.46	nclination (*) 0.00 0.00 8.64 8.64 8.64 60.00	Azimuth (bearing) 0.00 0.00 177.20 177.20 274.57	m Phase Depth From (TV (usft) 0.00 Vertical Depth (usft) 0.00 550.00 980.48 4,853.35 5,416.83	7/19/2015 a: P /D) +N/-S (usft) 0.00 0.00 -32.49 -620.43 -651.13	(*) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 1.59 30.39 -293.59	9.28 Tie +E (u: 0. Dogleg Rate ("/100ustt) 0.00 0.00 2.00 0.00 9.00	(* • On Depth: /-W sft) 00 Build Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00) 62.98 Dire (bez 26 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 ection aring) 9,70 TFO (*) 0.00 0.00 177.20 0.00 102.16	Target Start 60 deg tan #27
Audit Notes: Version: Vertical Section: Plan Sections Measured Depth (usft) 0.00 550.00 982.12 4,899.46 5,582.46 5,642.46	0.00 0.00 8.64 8.64 60.00 60.00	Azimuth (bearing) 0.00 0.00 177.20 177.20 274.57 274.57	m Phase Pepth From (TV (usft) 0.00 Vertical Depth (usft) 0.00 550.00 980.48 4,853.35 5,416.83 5,446.83	7/19/2015 2: P /D) +N/-S (usft) 0.00 0.00 -32.49 -620.43 -651.13 -646.99	(*) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 1.59 30.39 -293.59 -345.39	9.28 Tie +E (u: 0. Dogleg Rate (*/100ustt) 0.00 0.00 2.00 0.00 9.00 0.00	Con Depth: J-W sft) 00 Build Rate (*/100usft) 0.00 0.00 2.00 0.00 7.52 0.00) 62.98 Dire (bez 26 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 ection aring) 9.70 TFO (°) 0.00 0.00 177.20 0.00 102.16 0.00 102.16 0.00	nT) 50,070

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WPX Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well Chaco 2307-06G #274H
Company:	WPX Energy	TVD Reference:	KB @ 6984.00usft (Aztec 920)
Project:	T23N R7W	MD Reference:	KB @ 6984.00usft (Aztec 920)
Site:	Chaco 2307-06G	North Reference:	True
Well:	Chaco 2307-06G #274H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 5Aug15 sam		

Planned Survey

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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	0.0
320.00	0.00	0.00	320.00	0.00	0.00	0.00	0.00	0.00	0.0
9 5/8" 36# J-									
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.0
550.00	0.00	0.00	550.00	0.00	0.00	0.00	0.00	0.00	0.0
Start Build 2.				TRANS SAME		The search			
982.12	8.64	177.20	980.48	-32.49	1.59	-1.42	2.00	2.00	0.0
Hold 8.64 Inc	lination			design of the second				In she il sos i	
1,000.00	8.64	177.20	998.16	-35.17	1.72	-1.54	0.00	0.00	0.0
1,500.00	8.64	177.20	1,492.48	-110.22	5.40	-4.81	0.00	0.00	0.0
2,000.00	8.64	177.20	1,986.81	-185.26	9.08	-8.09	0.00	0.00	0.0
2,500.00	8.64	177.20	2,481.13	-260.30	12.75	-11.37	0.00	0.00	0.
3,000.00	8.64	177.20	2,975.45	-335.35	16.43	-14.65	0.00	0.00	0.
3,500.00	8.64	177.20	3,469.77	-410.39	20.10	-17.92	0.00	0.00	0.0
4,000.00	8.64	177.20	3,964.10	-485.43	23.78	-21.20	0.00	0.00	0.
4,500.00	8.64	177.20	4,458.42	-560.48	27.46	-24.48	0.00	0.00	0.
4,899.46	8.64	177.20	4,853.35	-620.43	30.39	-27.10	0.00	0.00	0.
Start Build D	LS 9.00 TFO 10	2.16							
5,000.00	11.09	230.24	4,952.58	-634.19	23.31	-19.94	9.00	2.44	52.
5,500.00	52.70	272.99	5,371.16	-655.69	-225.15	228.63	9.00	8.32	8.
5,582.46	60.00	274.57	5,416.83	-651.13	-293.59	297.05	9.00	8.86	1.
Hold 60.00 In		CHIP STREET	THE REAL PROPERTY.	N THE REAL PROPERTY	CONTRACTOR OF STREET,	AND A SHOT	ALC: NO DESCRIPTION		10 10 10 10
5,642.46	60.00	274.57	5,446.83	-646.99	-345.39	348.82	0.00	0.00	0.0
Start Build D	LS 9.00 TFO 0.0	and the second s	and the state of the second	ST COMMENTS	and the second		ALC: SELEN	A DARKET R	and the state
5,812.29	75.28	274.57	5,511.24	-634.52	-501.49	504.85	9.00	9.00	0.0
Start DLS 9.0	0 TFO 0.00	HELLER MERSI		A CALLER AND		Har His Street	ALL STREET	and the second second	3 1 1 2 3
5,988.31	91.13	274.57	5,532.00	-620.64	-675.17	678.46	9.00	9.00	0.0
POE at 91.13	Inc 274.57	Contract of the loss	2 182402020			Contraction of	WEIGHT ST	COPH SETTING	Service -
5,990.29	91.13	274.57	5,531.96	-620.48	-677.13	680.42	0.00	0.00	0.0
7" 23# J-55	51.15	214.01	5,551.50	-020,40	-077.13	000.42	0.00	0.00	0.0
6,000.00	91.13	274.57	5,531.77	-619.71	-686.81	690.10	0.00	0.00	0.0
6,500.00	91.13	274.57	5,531.77	-579.89	-1,185.13	1,188.19	0.00	0.00	0.0
7,000.00	91.13	274.57	5,521.93	-579.09	-1,105.13	1,686.29	0.00	0.00	0.0
7,500.00	91.13	274.57	5,502.23	-500.26	-2,181.76	2,184.39	0.00	0.00	0.0
			Contraction and the						
8,000.00	91.13	274.57	5,492.36 5,482.47	-460.44	-2,680.07	2,682.48	0.00	0.00	0.0
8,500.00	91.13	274.57		-420.62	-3,178.38	3,180.58 3,678.67	0.00	0.00	0.0
9,000.00 9,500.00	91.13 91.14	274.57 274.57	5,472.58 5,462.68	-380.80 -340.97	-3,676.70 -4,175.01	4,176.76	0.00	0.00	0.0
10,000.00	91.14	274.57	5,452.76	-340.97	-4,175.01	4,674.86	0.00	0.00	0.0
he had been a second									
10,500.00	91.14	274.57	5,442.84	-261.32	-5,171.64	5,172.95	0.00	0.00	0.0
11,000.00	91.14	274.57	5,432.90	-221.49	-5,669.95	5,671.05	0.00	0.00	0.0
11,500.00	91.14	274.57	5,422.95	-181.67	-6,168.26	6,169.14	0.00	0.00	0.0
12,000.00	91.14	274.57	5,412.99	-141.83	-6,666.57	6,667.23	0.00	0.00	0.0
12,500.00	91.14	274.57	5,403.02	-102.00	-7,164.88	7,165.32	0.00	0.00	0.0
13,000.00	91.14	274.57	5,393.04	-62.17	-7,663.19	7,663.42	0.00	0.00	0.0
13,252.22	91.15	274.57	5,388.00	-42.07	-7,914.56	7,914.67	0.00	0.00	0.0

WPX Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well Chaco 2307-06G #274H
Company:	WPX Energy	TVD Reference:	KB @ 6984.00usft (Aztec 920)
Project:	T23N R7W	MD Reference:	KB @ 6984.00usft (Aztec 920)
Site:	Chaco 2307-06G	North Reference:	True
Well:	Chaco 2307-06G #274H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 5Aug15 sam		

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
BHL #274H 5Aug15 sam - plan hits target cent - Point	0.00 er	0.00	5,388.00	-42.07	-7,914.56	1,913,527.44	556,852.11	36.258870	-107.640500
Start 60 deg tan #274H - plan hits target cent - Point	0.00 er	0.00	5,416.83	-651.13	-293.59	1,912,935.67	564,474.44	36.257200	-107.614651
End 60 deg tan #274H - plan hits target cent - Point	0.00 er	0.00	5,446.83	-646.99	-345.39	1,912,939.69	564,422.63	36.257212	-107.614827
POE #274H - plan hits target center - Point	0.00 er	0.00	5,532.00	-620.64	-675.17	1,912,965.30	564,092.80	36.257284	-107.615945

Gasing Points

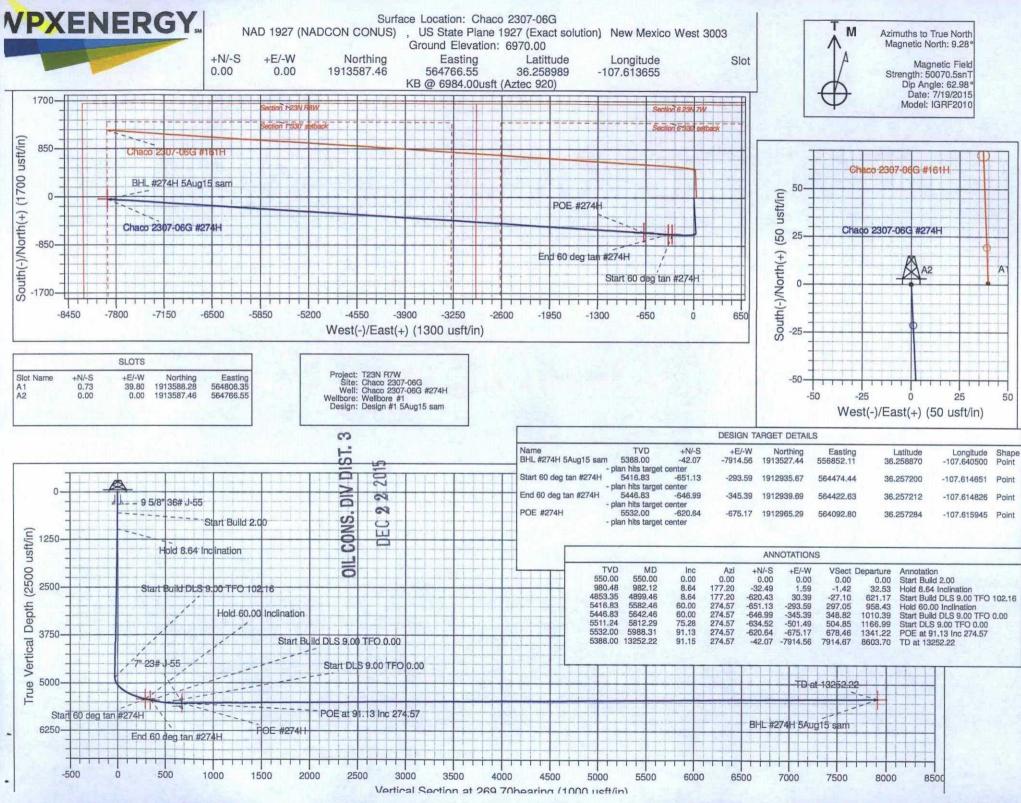
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	Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (in)	Hole Diameter (in)
1.1	320.00	320.00	9 5/8" 36# J-55		9.620	12.250
	5,990.29	5,531.96	7" 23# J-55		7.000	8.750

Plan Annotations

Measured	Vertical	Local Coordinates		
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
550.00	550.00	0.00	0.00	Start Build 2.00
982.12	980.48	-32.49	1.59	Hold 8.64 Inclination
4,899.46	4,853.35	-620.43	30.39	Start Build DLS 9.00 TFO 102.16
5,582.46	5,416.83	-651.13	-293.59	Hold 60.00 Inclination
5,642.46	5,446.83	-646.99	-345.39	Start Build DLS 9.00 TFO 0.00
5,812.29	5,511.24	-634.52	-501.49	Start DLS 9.00 TFO 0.00
5,988.31	5,532.00	-620.64	-675.17	POE at 91.13 Inc 274.57
13,252.22	5,388.00	-42.07	-7,914.56	TD at 13252.22



- a. Diversions will be installed upon reclamation.
- b. No additional fill would be required to construct the pad.
- c. The existing blueline will be routed around the well pad and will utilize the US Army Corps of Engineers (USACE) Nationwide Permit #39.
- 5. All project activities will be confined to permitted areas only.
- 6. Construction equipment may include chain saws, a brush hog, scraper, maintainer, excavator, and a dozer.
- D. Production Facilities
 - As practical, access will be a teardrop-shaped road through the production area so that the center may be revegetated.
 - Within 90 days of installation, production facilities would be painted Juniper Green to blend with the natural color of the landscape and would be located, to the extent practical, to reasonably minimize visual impact.
 - Berms will be constructed around all storage facilities sufficient in size to contain the storage capacity of tanks. Berm walls will be compacted with appropriate equipment to assure containment.

After the completion phases and pipeline installation, portions of the project area not needed for operation will be reclaimed. When the well is plugged, final reclamation will occur within the remainder of the project area. Reclamation is described in detail in the Reclamation Plan (Appendix B).

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
 - 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
 - 1. 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
 - 1. 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,

Directions from the Intersection of US Hwy 550 & US Hwy 64

in Bloomfield, NM to WPX Energy Production, LLC Chaco 2307-06G #274H

1647' FNL & 2357' FEL, Section 6, T23N, R7W, N.M.P.M., Rio Arriba County, NM

Latitude: 36.259002°N Longitude: 107.614264°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;

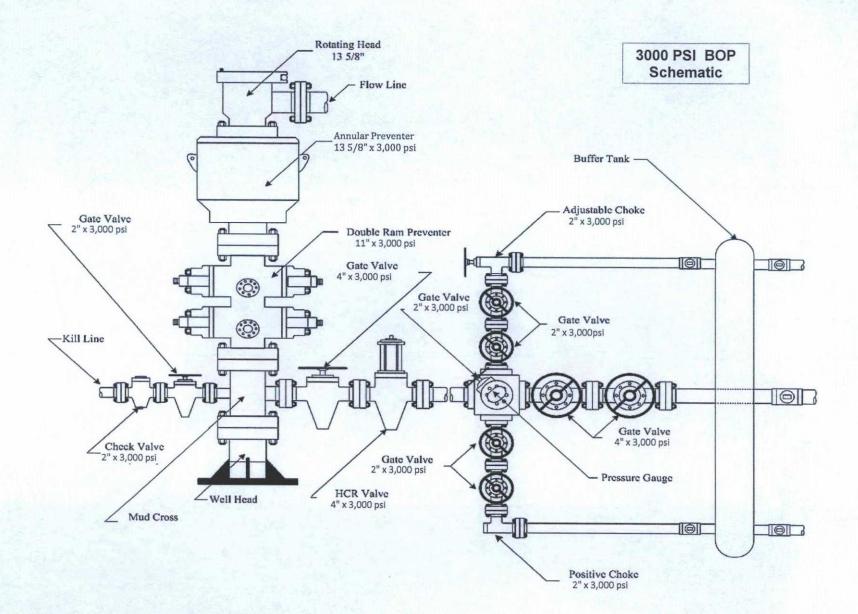
Go Left (Northerly) on County Road #7998 for 0.3 miles to fork in roadway:

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

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

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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 #274H location.



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