## 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 3160-4 or 3160-5 form.

Operator Signature Date: 7/1/15

Well information:

API WELL#	Well Name	Well #	Operator Name	Туре	Stat	County	Surf_Owner	UL	Sec	Twp	N/S	Rng W/E
30-045-35601- 00-00	CHACO 2408 33D	119H	WPX ENERGY PRODUCTION, LLC	0		San Juan	F	D	33	24	N	8 W

### Drilling/Casing Change

C 1	*4*	- C A	
Cond	luons	OI AD	proval:

(See the below checked and additional conditions)

- ✓ Notify Aztec OCD 24hrs prior to casing & cement.
- ✓ Hold C-104 for directional survey & "As Drilled" Plat
- $\checkmark$  Hold C-104 for  $\checkmark$  NSL,  $\square$  NSP,  $\square$  DHC
- Spacing rule violation. Operator must follow up with change of status notification on other well to be shut in or abandoned
- ☐ Ensure compliance with 19.15.17
- 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.

Additional requirements

NMOCD Approved by Signature

Johnie Brill

7-14-15 Date



Form 3160-5 (February 2005)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

JUL 0 2 2015

FORM APPROVED OMB No. 1004-0137 Expires: March 31, 2007

				ed aggs Carial No	
SUNDRY	IOTICES AND DED	CRIC ON WELLBOROS	mington Field Of		
Do not use this	form for proposals	ORTS ON WELLES reau	of Land Manag	MANA 023233 119786	
		to drill or to re-enter			
abandoned well.	USe FORM 3160-3 (A	APD) for such propos	als. 6.	. If Indian, Allottee or Tribe Name	ŧ
SUBM	IIT IN TRIPLICATE – Oth	ner instructions on page 2.	7.	. If Unit of CA/Agreement, Name	and/or No.
1. Type of Well					
			8.	Well Name and No.	
Oil Well Ga	s Well Other			Chaco 2408-33D #119H	
2. Name of Operator				API Well No.	
WPX Energy Production, LLC  3a. Address		21. Dh N (: .1. 1.		30-045-35601	
PO Box 640 Aztec, NM 8	7410	3b. Phone No. (include area of 505-333-1816		<ol> <li>Field and Pool or Explorator asin mc</li> </ol>	ry Area
4. Location of Well (Footage, Sec.,		otion)		1. Country or Parish, State	
SHL:1290' FNL & 388' FWL, sed BHL:297' FSL & 1357' FWL, sed			S	an Juan, NM	
BIL.297 F3L & 1337 FWL, Sec	3 34, 124N, NOVV				
12. CHECK T	HE APPROPRIATE BOX(	ES) TO INDICATE NATURE	OF NOTICE, REPO	ORT OR OTHER DATA	
TYPE OF SUBMISSION		TYPE	OF ACTION		
	Acidize	Deepen	Production		
Notice of Intent			(Start/Resume)		
	Alter Casing	Fracture Treat	Reclamati	on Well Integrity Other	
	Casing Repair	New Construction	Recomple	LATERAL CHAN	ICE
Subsequent Report			Temporari		TOE
	Change Plans	Plug and Abandon	Abandon		
Final Abandonment Notice	Convert to Injection	Plug Back	Water Dis		
all pertinent markers and zones subsequent reports must be file	l is to deepen directionally of Attach the Bond under who within 30 days following a Form 3160-4 must be file	or recomplete horizontally, give ich the work will be performed completion of the involved oper ed once testing has been comple	subsurface location or provide the Bond rations. If the operat ted. Final Abandonr	ns and measured and true vertical of d No. on file with BLM/BIA. Requition results in a multiple completion ment Notices must be filed only af	depths of uired on or
WPX requests to change	e the orientation o	f the lateral. Update	d directional	ons plans and C102 ar	'е
attached.					
deddiredi				OIL CONS. DIV DI	51.3
				JUL 1 0 201	5
14. I hereby certify that the foregoing	is true and correct.	T			
Name (Printed/Typed)					
LACEY GRANILLO	ALLA (	Title	PERMITTING	TECH III	
Signature			7/1/15		
1 00	THIS SPACE FO	OR FEDERAL OR STA		SE	
Approved by			Petroleum		
William	Tambekou		Title Engine	per Date 07-07-15	
Conditions of approval, if any, are attact the applicant holds legal or equitable to applicant to conduct operations thereon	tle to those rights in the subje		Office FFO		
**					

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.

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

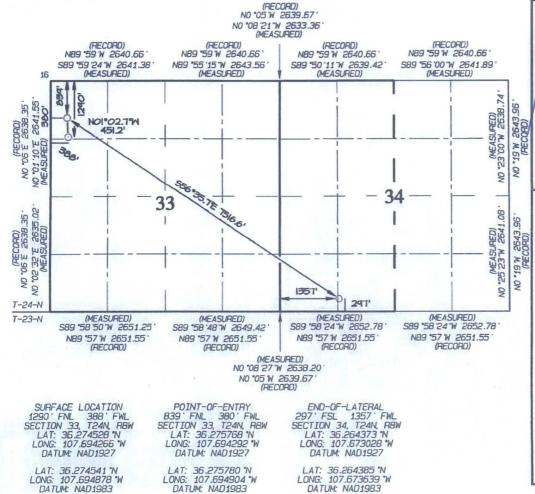
Submit one copy to Appropriate District Office

AMENDED REPORT

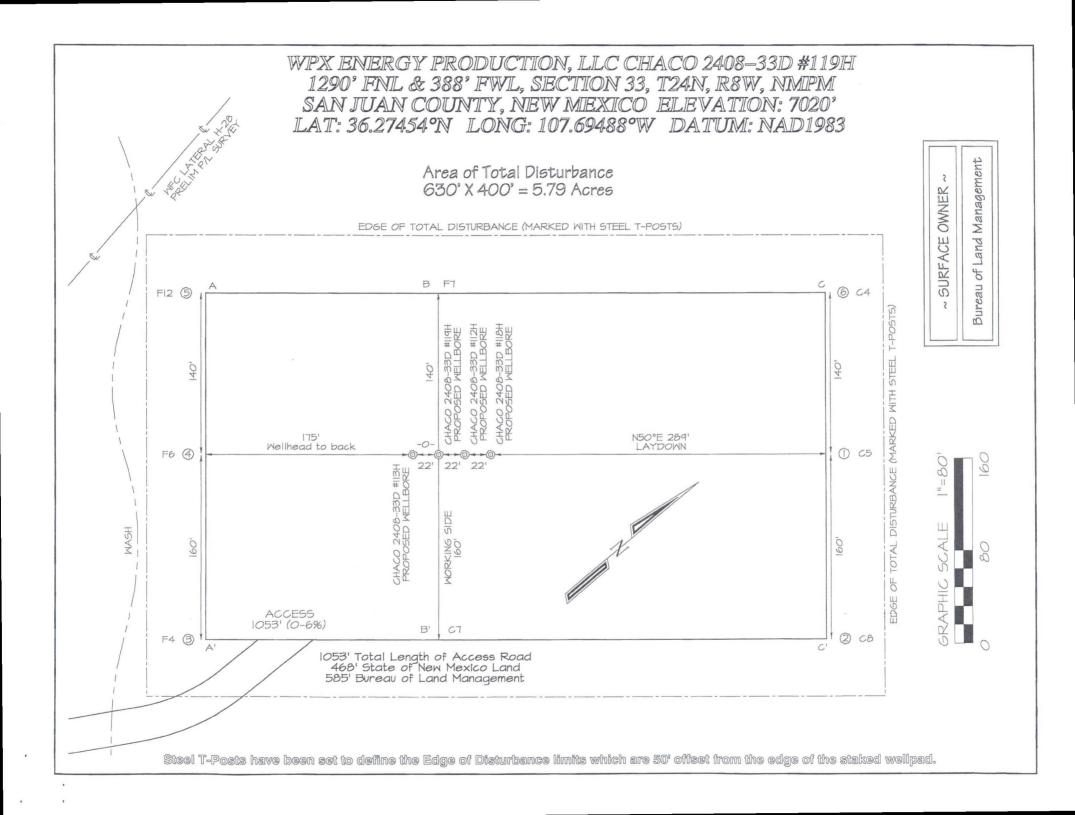
#### WELL LOCATION AND ACREAGE DEDICATION PLAT

21.00	API Number	258 d	)/	*Pool Con 97232			Pool Nam BASIN MAN	Control of the contro	
Property	Code		<u> </u>		°Propert			**	Well Number
'0GRID N				WPX	*Operator	Name RODUCTION, LL	_C	•	Elevation 7020
					<sup>10</sup> Surface	Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	33	24N	8W		1290	NORTH	388	WEST	SAN JUAN
		1	1 Botto	m Hole	Location I	f Different	From Surfac	е	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	34	24N	8W		297	SOUTH	1357	WEST	SAN JUAN
Dedicated Acres 960.0	-			33 34	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.		L

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 "OPERATUR CEHITLICATION
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 of a compulsory booling order
heretolore entered by the division. Date \*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: JUNE 30, 2015 Survey Date: DECEMBER 12, 2013 Signature and Seal of Professional Surveyor EDWARDS JASON C. MEXICO **JEW** AND ESSTAN SAMEYOR **ASON DWARDS** 15269 Certificate Number

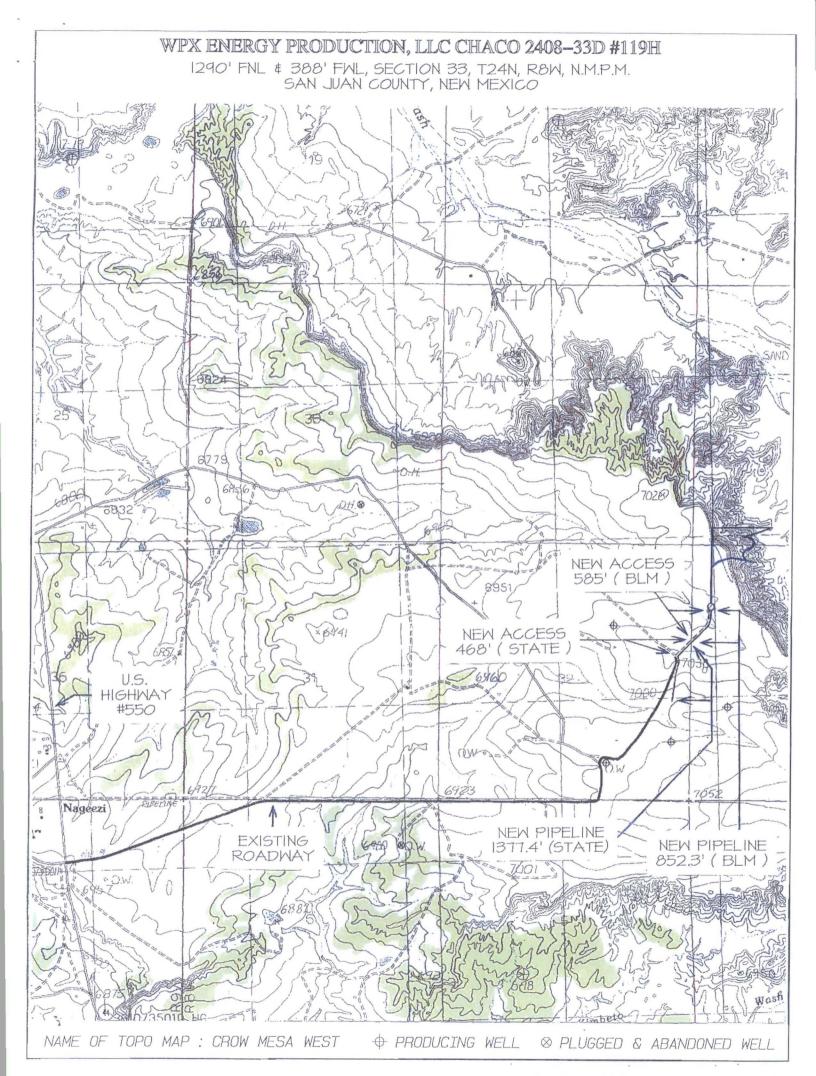


# WPX ENERGY PRODUCTION, LLC CHACO 2408-33D #119H 1290' FNL & 388' FWL, SECTION 33, T24N, R8W, NMPM SAN JUAN COUNTY, NEW MEXICO ELEVATION: 7020'

	HORIZONTAL SCALE		C	Ľ		VERTICA	L SCALE 30'
A-A							
70301							
7020'		~ - ~	\ 0	~	\ 0 -	~ \	0 \\.
70101							
			C	'L			
B-B'							
70301							
7020'		~ =					
7010'							
			C	'L			
C-C'							
7030'			* * * * *				
70201		7					/_/
70101					* * * * * * * * *		

NCE SURVEYS IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CONTACT ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND UTILITIES OR PIPELINES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.





#### **WPX ENERGY**

#### Operations Plan

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

DATE:

6/29/2015

FIELD:

**Basin Mancos** 

WELL NAME: Chaco 2408-33D #119H

**SURFACE:** 

SH Location:

NWNW Sec 33 -24N -08W

**ELEVATION: 7020' GR** 

BH Location:

SESW Sec 34 -24N -08W

**MINERALS:** 

San Juan Co., NM

**MEASURED DEPTH: 13,594'** 

**GEOLOGY:** 

Surface formation - Nacimiento

A FORMATION TOPS: (KB)

Name	MD	TVD	Name	MD	TVD
				:6	
Ojo Alamo	1288	1281	Point Lookout	4307	4241
Kirtland	1393	1384	Mancos	4522	4452
Picture Cliffs	1907	1888	Gallup	4892	4814
Lewis	2021	2000	Kickoff Point	4864	4744
Chacra	2274	2248	Top Target	5635	5424
Cliff House	3352	3305	Landing Point	6076	5536
Menefee	3410	3361	Base Target	6076	5536
			TD	13594	5549

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

#### II. DRILLING

- A. MUD PROGRAM: LSND mud (WBM) will be used to drill the 12-1/4" Surface hole, the 8 3/4" Directional Vertical hole, 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. BOP TESTING: While drill pipe is in use, the pipe rams and the blind rams will be function tested once each trip. The anticipated reservoir is expected to be less than 1300 psi, so the BOPE will be tested to 250 psi (Low) for 5 minutes and 1500 psi (High) for 10 minutes. Pressure test surface casing to 600 psi for 30 minutes and intermediate casing to 1500 psi for 30 minutes. Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. The drum brakes will be inspected and tested each tour. All tests and inspections will be recorded in the tour book as to time and results.

#### 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"	6,076'	7"	23#	K-55
Prod. Liner	6.125"	5,926-13,594'	4-1/2"	11.6#	N-80
Tie-Back String	N/A	Surf 5,926'	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.
- 2. INTERMEDIATE CASING: 7" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install (1) centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) centralizer at 2,700 ft., 2,300ft., 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.
- 4. TIE-BACK CASING: None

#### 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. 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 1.36 cu ft/sk, 13.5 ppg, (610 sx / 830 cu ft. / 148 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/- 182 bbl Fr Water. Total Cement (830 cu ft / 148 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.



Well Name: Chaco 2308-33D #119H

Surface Location: Chaco 2408-33D

NAD 1927 (NADCON CONUS) , US State Plane 1927 (Exact solution) New Mexico West 3003

Ground Elevation: 7020.00

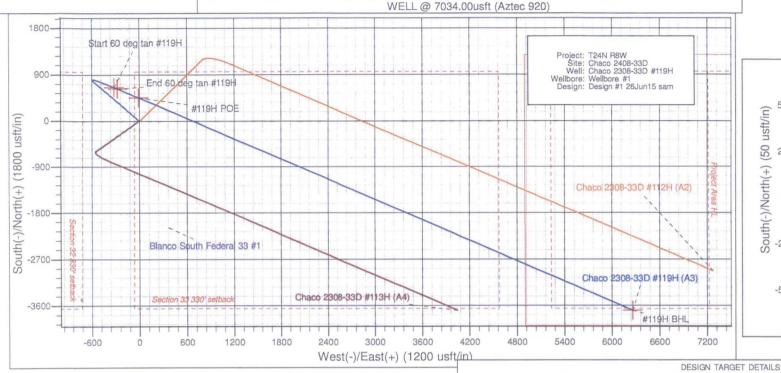
+N/-S +E/-W Northing 0.00 0.00 1919200.62

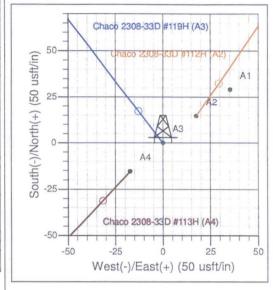
Easting Latittude 540991.14 36.2745300

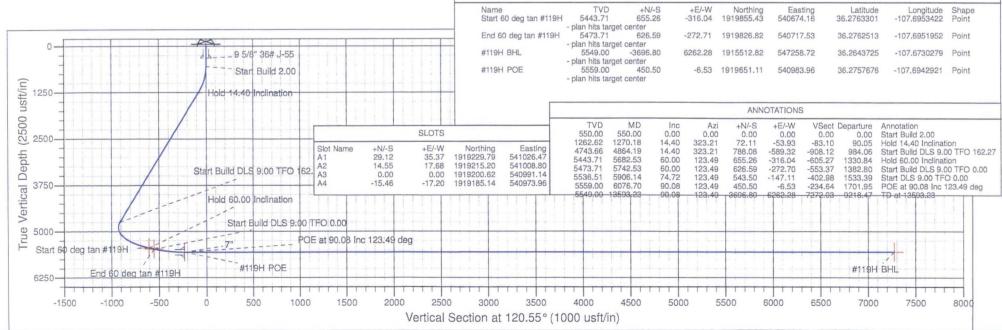
Longitude -107.6942700

Slot A3 Azimuths to True North Magnetic North: 9.32

Magnetic Field Strength: 50078.7snT Dip Angle: 62.98° Date: 6/11/2015 Model: IGRF2010







## **WPX** Energy

T24N R8W Chaco 2408-33D Chaco 2308-33D #119H - Slot A3

Wellbore #1

Plan: Design #1 26Jun15 sam

## **Standard Planning Report**

29 June, 2015

#### WPX

#### Planning Report

Database: COMPASS-SANJUAN
Company: WPX Energy
Project: T24N R8W
Site: Chaco 2408-33D
Well: Chaco 2308-33D #119H
Wellbore: Wellbore #1
Design: Design #1 26Jun15 sam

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Chaco 2308-33D #119H (A3) - Slot A3 WELL @ 7034.00usft (Aztec 920) WELL @ 7034.00usft (Aztec 920) True

Minimum Curvature

Project T24N R8W

Map System: Geo Datum: US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS) System Datum:

Mean Sea Level

Map Zone: New Mexico West 3003

Chaco 2408-33D Site 1,919,215.20 usft Northing: 36.2745700 Site Position: Latitude: 541,008.80 usft -107.6942100 From: Lat/Long Easting: Longitude: 0.08 0.00 usft Position Uncertainty: Slot Radius: 13.20 in Grid Convergence:

Well Chaco 2308-33D #119H - Slot A3 Well Position 36.2745300 +N/-S -14.56 usft Northing: 1,919,200.62 usft Latitude: +E/-W -17.68 usft Easting: 540,991.14 usft Longitude: -107.6942700 Position Uncertainty 0.00 usft Wellhead Elevation: 0.00 usft Ground Level: 7,020.00 usft

Wellbore Wellbore #1 Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) 62.98 50,079 IGRF2010 6/11/2015 9.32

Design Design #1 26Jun15 sam Audit Notes: Version: Phase: PLAN Tie On Depth: 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.00 0.00 0.00 120.55

an Sections										
Measured Depth (usft)	Inclination (°)	Azimuth	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	
1,270.18	14.40	323.21	1,262.62	72.11	-53.93	2.00	2.00	0.00	323.21	
4,864.19	14.40	323.21	4,743.66	788.08	-589.32	0.00	0.00	0.00	0.00	
5,682.53	60.00	123.49	5,443.71	655.26	-316.04	9.00	5.57	19.59	162.27	Start 60 deg tan #11
5,742.53	60.00	123.49	5,473.71	626.59	-272.70	0.00	0.00	0.00	0.00	End 60 deg tan #11
5,906.14	74.72	123.49	5,536.51	543.50	-147.11	9.00	9.00	0.00	0.00	
6,076.70	90.08	123.49	5,559.00	450.50	-6.53	9.00	9.00	0.00	0.00	#119H POE
13,593.23	90.08	123.49	5,549.00	-3,696.80	6,262.28	0.00	0.00	0.00	0.00	#119H BHL

## WPX

#### Planning Report

Database: Company: Project:

Site:

COMPASS-SANJUAN WPX Energy

T24N R8W Chaco 2408-33D

Well: Chaco 2308-33D #119H Wellbore: Wellbore #1

Wellbore: Wellbore #1
Design: Design #1 26Jun15 sam

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Chaco 2308-33D #119H (A3) - Slot A3

WELL @ 7034.00usft (Aztec 920) WELL @ 7034.00usft (Aztec 920)

True

Minimum Curvature

Measured Depth (usft)	Inclination (°)	Azimuth (°)	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" 36# J-	55								
500.00	0.00	0.00	500.00	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
Start Build 2									
1,000.00	9.00	323.21	998.15	28.25	-21.12	-32.55	2.00	2.00	0.00
1,270.18	14.40	323.21	1,262.62	72.11	-53.93	-83.10	2.00	2.00	0.00
Hold 14.40 Ir	nclination								
1,500.00	14.40	323.21	1,485.21	117.90	-88.16	-135.85	0.00	0.00	0.00
2,000.00	14.40	323.21	1,969.50	217.50	-162.65	-250.63	0.00	0.00	0.00
2,500.00	14.40	323.21	2,453.78	317.11	-237.13	-365.41	0.00	0.00	0.00
3,000.00	14.40	323.21	2,938.07	416.71	-311.62	-480.19	0.00	0.00	0.00
3,500.00	14.40	323.21	3,422.35	516.32	-386.10	-594.97	0.00	0.00	0.00
4,000.00	14.40	323.21	3,906.63	615.93	-460.59	-709.74	0.00	0.00	0.00
4,500.00	14.40	323.21	4,390.92	715.53	-535.07	-824.52	0.00	0.00	0.00
4,864.19	14.40	323.21	4,743.66	788.08	-589.32	-908.12	0.00	0.00	0.00
Start Build D	LS 9.00 TFO 162	2.27							
5,000.00	4.60	16.67	4,877.62	806.90	-597.91	-925.08	9.00	-7.22	39.36
5,500.00	43.65	121.43	5,331.27	732.26	-436.53	-748.17	9.00	7.81	20.95
5,682.53	60.00	123.49	5,443.71	655.26	-316.04	-605.27	9.00	8.96	1.13
Hold 60.00 Ir	nclination								
5,742.53	60.00	123.49	5,473.71	626.59	-272.70	-553.37	0.00	0.00	0.00
Start Build D	LS 9.00 TFO 0.0	0							
5,906.14	74.72	123.49	5,536.51	543.50	-147.11	-402.98	9.00	9.00	0.00
Start DLS 9.0	00 TFO 0.00								
6,000.00	83.17	123.49	5,554.49	492.72	-70.35	-311.06	9.00	9.00	0.00
6,076.00	90.01	123.49	5,559.00	450.89	-7.12	-235.34	9.00	9.00	0.00
7"									
6,076.70	90.08	123.49	5,559.00	450.50	-6.53	-234.64	9.00	9.00	0.00
	Inc 123.49 deg								
6,500.00	90.08	123.49	5,558.44	216.94	346.50	188.10	0.00	0.00	0.00
7,000.00	90.08	123.49	5,557.77	-58.94	763.50	687.45	0.00	0.00	0.00
7,500.00	90.08	123.49	5,557.11	-334.82	1,180.50	1,186.79	0.00	0.00	0.00
8,000.00	90.08	123.49	5,556.44	-610.70	1,597.51	1,686.14	0.00	0.00	0.00
8,500.00	90.08	123.49	5,555.78	-886.57	2,014.51	2,185.48	0.00	0.00	0.00
9,000.00	90.08	123.49	5,555.11	-1,162.45	2,431.51	2,684.83	0.00	0.00	0.00
9,500.00	90.08	123.49	5,554.45	-1,438.33	2,848.51	3,184.17	0.00	0.00	0.00
10,000.00	90.08	123.49	5,553.78	-1,714.21	3,265.51	3,683.51	0.00	0.00	0.00
10,500.00	90.08	123.49	5,553.12	-1,990.09	3,682.51	4,182.86	0.00	0.00	0.00
11,000.00	90.08	123.49	5,552.45	-2,265.97	4,099.52	4,682.20	0.00	0.00	0.00
11,500.00	90.08	123.49	5,551.78	-2,541.85	4,516.52	5,181.55	0.00	0.00	0.00
12,000.00	90.08	123.49	5,551.12	-2,817.73	4,933.52	5,680.89	0.00	0.00	0.00
12,500.00	90.08	123.49	5,550.45	-3,093.61	5,350.52	6,180.24	0.00	0.00	0.00
13,000.00	90.08	123.49	5,549.79	-3,369.48	5,767.52	6,679.58	0.00	0.00	0.00
13,500.00	90.08	123.49	5,549.12	-3,645.36	6,184.52	7,178.93	0.00	0.00	0.00
13,593.23	90.08	123.49	5,549.00	-3,696.80	6,262.28	7,272.03	0.00	0.00	0.00

#### **WPX**

#### Planning Report

Database: COMPASS-SANJUAN
Company: WPX Energy
Project: T24N R8W
Site: Chaco 2408-33D
Well: Chaco 2308-33D #119H
Wellbore: Wellbore #1

Design #1 26Jun15 sam

Design:

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Chaco 2308-33D #119H (A3) - Slot A3 WELL @ 7034.00usft (Aztec 920) WELL @ 7034.00usft (Aztec 920)

True

Minimum Curvature

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir.	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Start 60 deg tan #119H - plan hits target cento - Point	0.00 er	0.00	5,443.71	655.26	-316.04	1,919,855.43	540,674.16	36.2763301	-107.6953422
End 60 deg tan #119H - plan hits target cente - Point	0.00 er	0.00	5,473.71	626.59	-272.71	1,919,826.83	540,717.53	36.2762513	-107.6951952
#119H BHL - plan hits target cente - Point	0.00 er	0.00	5,549.00	-3,696.80	6,262.28	1,915,512.82	547,258.72	36.2643725	-107.6730279
#119H POE - plan hits target cente - Point	0.00 er	0.00	5,559.00	450.50	-6.53	1,919,651.11	540,983.96	36.2757676	-107.6942922

asing Points							
	Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (in)	Hole Diameter (in)	
	320.00	320.00	9 5/8" 36# J-55		9.62	12.25	0.000
	6,076.00	5,559.00	7"		7.00	8.75	

Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
550.00	550.00	0.00	0.00	Start Build 2.00
1,270.18	1,262.62	72.11	-53.93	Hold 14.40 Inclination
4,864.19	4,743.66	788.08	-589.32	Start Build DLS 9.00 TFO 162.27
5,682.53	5,443.71	655.26	-316.04	Hold 60.00 Inclination
5,742.53	5,473.71	626.59	-272.70	Start Build DLS 9.00 TFO 0.00
5,906.14	5,536.51	543.50	-147.11	Start DLS 9.00 TFO 0.00
6,076.70	5,559.00	450.50	-6.53	POE at 90.08 Inc 123.49 deg
13,593,23	5,549.00	-3,696,80	6,262.28	TD at 13593,23