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

NMOCD Approved by Signature

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 3160-3 APD form.

approved by BLM on the following 3160-3 APD form.
Operator Signature Date: 12-22-14 Well information; Operator WPX , Well Name and Number Chaco 2308-04L #459 H
API# <u>30-045-35627,</u> Section <u>4</u> , Township <u>23</u> N/S, Range <u>8</u> 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.
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.
Charle Xen 1-13-2015

Date

OIL CONS. DIV DIST. 3

Form 3160-3 (September 2001)

JAN 06 2015

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT



DEC 22 2014

OMB	No.	1004	4-01	36
Expires	Janu	ary	31,	2004

5. Lease Serial No. N0-G-1401-1868 BUREAU OF LAND MANAGEMENT
Farmington Field Of IGS If Indian, Allottee or Tribe Name
APPLICATION FOR PERMIT TO DRILL OR REENTER Land Management and Indian Allotteent

la. Type of Work: DRILL REENTE	R	•	7. If Unit or CA Agreement	t, Name and No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other	M Circle Zero - D M Vi		8. Lease Name and Well No	
	☑ Single Zone ☐ Multi	ple Zone	Chaco 2308-04L #459H	
Name of Operator WPX Energy Production. LLC			9 API Well No.	35627
3a. Address	3b. Phone No. (include area code)		10. Field and Pool, or Explor	ratory
P.O. Box 640 Aztec, NM 87410	(505) 333-1849		Nageezi Gallup / Basin M	Mancos .
4. Location of Well (Report location clearly and in accordance with any			11. Sec., T., R., M., or Blk. a	and Survey or Area
At surface 2431' FSL & 427' FWL, sec 4, T23N, R8W At proposed prod. zone 1274' FSL & 230' FWL, sec 5, T23N, F	₹8W ,	NUSW	SHL: Section 4, T23N, F BHL: Section 5, T23N, F	
14. Distance in miles and direction from nearest town or post office*	· · · · · · · · · · · · · · · · · · ·	درمار	12. County or Parish	13. State
approximately 4 miles east of Lybrook, New Mexico			San Juan County	NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 427'	16. No. of Acres in lease	, ,	Unit dedicated to this well	
18. Distance from proposed location*	160.00 19. Proposed Depth		160.00 acres IA Bond No. on file	
to nearest well, drilling, completed,	15. Proposed Depar	20. BLIVI/B	IA bolid No. oli file	
applied for, on this lease, ft.	10,544' MD / 5,189' TVD	B0015	76	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will st		23. Estimated duration	
6868' GR	February 1, 2015		1 month	
	24. Attachments			
The following, completed in accordance with the requirements of Onshor	re Oil and Gas Order No.1, shall be atta	ched to this	form:	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System I SUPO shall be filed with the appropriate Forest Service Office). 	Item 20 above). 5. Operator certifica	tion. pecific infor	unless covered by an existing	•
25. Signature	Name (Printed/Typed)	*	Date))) ~\ ₁
	Andrea Felix		1	x.44-801
Citie C		•		
Approved by (Signature) Approved by (Signature) Approved by (Signature)	Name (Printed/Typed)		Date	5/15
Title AFM	Office FF	<u>`</u>	·	
Application approval does not warrant or certify that the applicant holds I operations thereon. Conditions of approval, if any, are attached.	egal or equitable title to those rights in	the subject le	ease which would entitle the ap	oplicant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it States any false, fictitious or fraudulent statements or representations as to		willfully to	make to any department or ago	ency of the United
*(Instructions on reverse)				

WPX Energy Production, LLC, proposes to develop the Nageezi Gallup / Basin Mancos pool at the above described location in accordance with the attached drilling and surface use plans.

The well pad surface is under jurisdiction of BLM FFO and is co-located with the approved Chaco 2308-04L #283/284H well pad which is currently under construction.

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

No new access road is needed.

There will be no new-pipeline NS 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 ANY OTHER **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

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

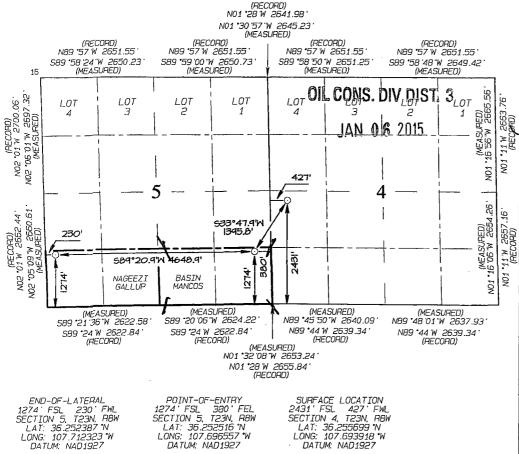
OIL CONSERVATION DIVISION 1220 South St. Francis Drive Santa Fe, NM 87505



DEC 22 2014

WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Name Farmington Field Office API Number Pool Code NAGEEZI GALLUP / BASTO UMÁNCOS Managenieni 30-645-3 47540 / 97232 Well Number Property Code ⁵Property Name CHACO 2308-04L 459H 313898 Elevation OGRID No "Operator Name WPX ENERGY PRODUCTION, LLC 120782 6868 ¹⁰ Surface Location UL or lot no. Section Township Lot Idn Feet from the North/South line County Feet from the East/West line 4 23N 8W 2431 SOUTH 427 WEST SAN JUAN ı ¹¹ Bottom Hole Location If Different From Surface Lot Idn UL or lot no Section Township Range Feet from the North/South line Feet from the East/West line County М **23N** 1274 SOUTH 230 WEST SAN JUAN 12 Dedicated Acres ¹³Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order No. 160.0 Acres S/2 S/2 - Section 5 50080 Najoezi SE80 Besin Mancos

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



LAT: 36.255712 °N LONG: 107.694529 °W

DATUM: NAD1983

LAT: 36.252529 N LONG: 107.697169 W

DATUM: NAD1983

LAT: 36.252400°N .ONG: 107.712935°W DATUM: NAD1983

Printed Name andrea.felix@wpxenergy.com E-mail Address 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 und my supervision, and that the same is true and correct to the best of my belief. Date Revised: NOVEMBER 14, 2014 Date of Survey: MAY 12, 2014 Signature and Seal of Professional Surveyor C. EDWARDS JASON MEXICO SEW. REGISTERED SCANEYOR 15269 PROFESSIONAL ASON DWARDS Certificate Number 15269

OPERATOR CERTIFICATION

DEFINATION CEMITETICATION
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 oprusuant to a contract with an owner of such a mineral or Morking interest, or to a voluntary pooling agreement or a compulsory pooling order herebofore entered by the division.

Date

gnature

Andrea Felix



WPX ENERGY

Operations Plan

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

DATE:

12/8/14

FIELD:

Nageezi Gallup & Basin Mancos

WELL NAME:

Chaco 2308-04L #459H

SURFACE:

BLM

SH Location:

NWSW Sec 4 -23N -08W

ELEVATION:

6868' GR

BH Location:

SWSW Sec 5 -23N -08W

MINERALS:

BLM

I. GEOLOGY:

San Juan Co., NM

MEASURED DEPTH: 10,544'

Surface formation – Nacimiento

A. FORMATION TOPS: (KB)

Name		71/0	N1	LAAD	T) (D)
Name	MD	TVD	Name	MD	TVD
Ojo Alamo	1062	1059	Point Lookout	4125	4010
Kirtland	1259	1252	Mancos	4346	4223
Picture Cliffs	1664	1642	Kickoff Point	4814	4673
Lewis	1771	1745	Top Target	5560	5250
Chacra	2055	2018	Landing Point	5895	5327
Cliff House	3165	3086	Base Target	5895	5327
Menefee	3222	3141			
			TD	10544	5189

- 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. 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. <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.

NOTE: Vertical portion of the well (8-3/4 in.) will be directionally drilled as per attached Directional Plan to +/- 4,814' (MD) / 4,673' (TVD). Curve portion of wellbore will be drilled and landed at +/- 90 deg. at +/- 5,895' (MD) / 5,327' (TVD). 7 in. csg will be set at this point. A 6-1/8" Lateral will be drilled as per the attached Directional Plan to +/- 10,544' (MD) / 5,189' (TVD). Will run 4-1/2 in. Production Liner from +/- 5,745 ft. to TD and cemented. Liner will be tied back to surface w / 4-1/2" Casing for stimulation / testing, then removed from the well.

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	OH SIZE (IN)	DEPTH (MD) (FT)	CASING SIZE (IN)	WEIGHT(LB)	GRADE
Surface	12.25"	400'+	9.625"	36#	J-55
Intermediate	8.75"	5,895	7"	23#	K-55
Prod. Liner	6.125"	5,745' - 10,544'	4-1/2"	11.6#	N-80
Tie-Back String	N/A	Surf 5,745'	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. <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 2,700 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>: 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.
- 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: 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.). WOC 12 hrs. Test Casing to 1500 PSI for 30 minutes. Total Cement Volume: (900 sx / 1461 cu-ft / 260 bbls). Mix with +/- 84,000 SCF Nitrogen. TOC at surface.
- 3. PRODUCTION LINER: STAGE 1:10 bbl (56.cu-ft) Fr Water Spacer. STAGE 2:40 bbl 9.5 ppg (224.6 cu-ft) Tuned Spacer III + 0.5 gal/bbl Musol + 38.75 ppb Barite + 0.5 gal/bbl SEM-7. STAGE 3: 10 bbl Fr Water Spacer. STAGE 4: Lead Cement: 50 / 50 Poz Premium + 0.2% Versaset + 0.2% Halad -766, Yield 1.43 cu ft/sk, 13.0 ppg, (10 sx / 14.3 cu ft. / 2.5 bbls). STAGE 5: 200 sx. Foamed Lead Cement: 50 / 50 Poz Standard + 0.2% Versaset + 0.2% HALAD-766 + 1.5% Chem-Foamer 760. Yield 1.97 cu-ft/sk. 13.0 ppg (200 sx / 394 cu-ft. / 70.2 bbls.). STAGE 6: Tail Cement : 100 sx. 50/50 Poz Standard + 0.2% Versaset + 0.05% HALAD-766 + .05% SA-1015, Weight: 13.5 ppg (100 sx / Yield 1.28 cu ft/sk. / 128 cu ft. / 22.8 bbls) STAGE 7: Displace w/ +/- 137 bbl Fr Water. Total Cement (563.3 cu ft / 95.5 bbls). Mix Foamed Cement w/ +/- 75,000 SCF Nitrogen. Est. TOC +/- 5,644 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. <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 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 6,094 ft. MD) with a Liner Hanger and pack-off assembly then cemented to +/- 300 ft above the liner hanger. TOL will be +/- 5,944 ft. (MD) +/- 78 degree angle. TOC: +/- 5,644 ft. (MD).

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

The Drilling Rig will be rigged down at this point and Completion operations will begin.

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.

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



SAN JUAN BASIN

SJ 04-23N-08W Chaco 2308-04L Chaco 2308-04L #459H

Wellbore #1

Plan: Design #1 03Nov14 kjs

Standard Planning Report - Geographic

03 December, 2014



Planning Report - Geographic

TVD Reference:

MD Reference:

North Reference:

Local Co-ordinate Reference:

Survey Calculation Method:

Database: Company: COMPASS-SANJUAN

Project:

SAN JUAN BASIN SJ 04-23N-08W Chaco 2308-04L

Site: Well:

Chaco 2308-04L #459H

Wellbore:

Wellbore #1

Design:

Design #1 03Nov14 kjs

SJ 04-23N-08W, San Juan County, NM

Project Map System:

Geo Datum:

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

Map Zone:

New Mexico West 3003

System Datum:

Mean Sea Level

Minimum Curvature

True

Well Chaco 2308-04L #459H

WELL @ 6883.00usft (Original Well Elev)

WELL @ 6883.00usft (Original Well Elev)

Site

Well

Chaco 2308-04L

Site Position: From:

Lat/Long

Northing: Easting:

1,912,345.31 usft 541,082.86 usft

Latitude:

36.2556972

Slot Radius:

13.200 in

Longitude: **Grid Convergence:** -107.6939923

0.08°

Position Uncertainty:

Chaco 2308-04L #459H

Well Position

+N/-S

0.00 usft

Northing:

1,912,346.00 usft

Latitude:

Position Uncertainty

+E/-W 0.00 usft Easting: Wellhead Elevation: 541,104.76 usft

Longitude:

36.2556990

0.00 usft

0.00 usft

0.00 usft

Ground Level:

-107.6939180 6,868.00 usft

Wellbore Wellbore #1 Model Name Sample Date Declination Dip Angle Field Strength Magnetics (°) (°) (nT) IGRF2010 11/3/2014 9.40 62.98 50,128

Design	Design #1 03Nov14 kjs					
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	269.43	 	•

Measured			Vertical		Dogleg	Dogleg	Build	Turn		
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Rate (°/100usft)	Rate (°/100usft)	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	
1,339.44	15.79	183.46	1,329.49	-107.89	-6.52	2.00	2.00	0.00	183.46	
4,813.92	15.79	183.46	4,672.88	-1,051.54	-63,57	0.00	0.00	0.00	0.00	
5,482.28	60.00	269.43	5,211.99	-1,154.85	-388.90	9.00	6.61	12.86	95.13	
5,542.28	60.00	269.43	5,241.99	-1,155.37	-440.86	0.00	0.00	0.00	0.00	
5,894.50	91.70	269.43	5,327.00	-1,158.72	-778.04	9.00	9.00	. 0.00	0.00	
10,545.37	91.70	269.43	5,189.00	-1,204.97	-5,426.63	0.00	0.00	0.00	0.00 T	D / PBHL #459



WPX

Planning Report - Geographic

Database: COMPASS-SANJUAN

 Company:
 SAN JUAN BASIN

 Project:
 SJ 04-23N-08W

 Site:
 Chaco 2308-04L

Well: Chaco 2308-04L #459H

Wellbore: Wellbore #1

Design: Design #1 03Nov14 kjs

Local Co-ordinate Reference: Well Chaco 2308-04L #459H

TVD Reference: WELL @ 6883.00usft (Original Well Elev)
MD Reference: WELL @ 6883.00usft (Original Well Elev)

في المؤردين 20 م. وقد المؤردين 20 م. وقد المستخدم المراكب المؤردين المؤرد المؤرد المؤرد المؤرد المؤرد المؤرد المؤرد المؤرد المراك

North Reference: Tru

Survey Calculation Method: Minimum Curvature

200.00 0.00 0.00 200.00 0.00 0.00 1,912,346,00 541,104.76 30.2556980 -107.6939780 550.00 0.00 0.00 550.00 0.00 0.00 1,912,346,00 541,104.76 30.2556980 -107.6939780 550.00 0.00 1.00 183.46 798.03 -0.04 0.00 1,912,346,00 541,104.76 30.2556980 -107.6939780 50.00 0.00 1.00 183.46 798.03 -0.04 0.00 1,912,345.57 541,104.74 30.2556980 -107.6939780 1,000.00 9.00 183.46 798.03 -1.08.03 -1.08.03 1.09.12,345.57 541,104.74 30.2556980 -107.6939780 1,000.00 9.00 183.46 989.15 -35.21 -2.13 1,912,345.57 541,104.74 30.2556980 -1.07.6939280 1,000.00 9.00 183.46 193.46 1,320.49 -107.693.40 -0.06 1,372.77 541,104.74 30.2556993 -1.07.6939280 1,200.00 13.00 183.46 1,344.4 -73.29 4.49 1,912,272.77 541,100.44 30.2556920 -107.6939331 1,339.44 15.79 183.46 1,320.49 -107.69 -6.52 1,912,236.11 541,003.40 30.2556920 -107.6939301 1,339.44 15.79 183.46 1,320.49 -107.69 -6.52 1,912,236.11 541,003.40 30.2556920 -107.6939402 1,800.00 15.79 183.46 1,387.56 -1.78.69 1.00 1.00 15.79 183.46 1,387.56 -1.78.69 1.00 1.00 15.79 183.46 1,387.56 -1.78.69 1.00 1.00 15.79 183.46 1,772.67 -2.29.77 -14.09 1,912,133.11 541,003.00 15.79 183.46 1,387.56 1.20 1.00 1.00 15.79 183.46 1,387.56 1.20 1.00 1.00 15.79 183.46 1,387.56 1.20 1.00 1.00 15.79 183.46 1.00 1.00 15.79 183.46 1.00 1.00 15.79 183.46 1.00 1.00 15.79 183.46 2,400.	Planned Surve	у								
200.00 0.00 0.00 0.00 200.00 0.00 0.00	Depth			Depth			Northing	Easting	Latitude	Longitude
\$40,00	0.00	0.00	0.00	0.00	0.00	0.00	1,912,346.00	541,104.76	36.2556990	-107.6939180
55.00	200.00	0.00	0.00	200.00	0.00	0.00	1,912,346.00	541,104.76	36.2556990	-107.6939180
Start Build 200	400.00	0.00	0.00	400.00	0.00	0.00	1,912,346.00	541,104.76	36.2556990	-107.6939180
600.00	550.00	0.00	0.00	550.00	0.00	0.00	1,912,346.00	541,104.76	36.2556990	-107.6939180
80.00 5.00 183.46 789.68 -10.88 -0.06 1,912,335.12 541,104.12 38.2556023 1.07.893203 1,200.00 130.01 183.46 1,194.44 -73.29 -4.43 1,912,272.71 541,100.44 38.2554026 -107.8933031 1,339.44 15.79 183.46 1,329.49 -10.789 -0.52 1,912,238.11 541,098.39 38.2554026 -107.8933031 1,397.40 -10.7893031 -10.78930320 -10.7893031 -10.78930320 -10.78930	Start Bu	iild 2.00			ŕ					
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8,000.00 91.70 269.43 5,264.53 -1,179.66 -2,882.51 1,911,162.20 538,223.95 36.2524579 -107.7036942										
	8,200.00	91.70	269.43	5,258.59	-1,181.65	-3,082.41	1,911,159.92	538,024.06	36.2524524	-107.7043722



Planning Report - Geographic

TVD Reference:

MD Reference:

North Reference:

Database:

COMPASS-SANJUAN

Company:

SAN JUAN BASIN

Project: Site:

SJ 04-23N-08W Chaco 2308-04L

Well:

Chaco 2308-04L #459H

Wellbore:

Wellbore #1

Design:

Design #1 03Nov14 kjs

Local Co-ordinate Reference:

Well Chaco 2308-04L #459H

WELL @ 6883.00usft (Original Well Elev)

The second of the second secon

WELL @ 6883.00usft (Original Well Elev) True

Survey Calculation Method:

Minimum Curvature

ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map . Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,400.00	91.70	269.43	5,252.66	-1,183.64	-3,282.31	1,911,157.64	537,824.16	36.2524468	-107.705050
8,600.00	91.70	269.43	5,246.72	-1,185.63	-3,482.21	1,911,155.37	537,624.26	36.2524413	-107.705728
8,800.00	91.70	269.43	5,240.79	-1,187.62	-3,682.12	1,911,153.09	537,424.36	36.2524358	-107.706406
9,000.00	91.70	269.43	5,234.85	- <u>1,</u> 189.60	-3,882.02	1,911,150.81	537,224.46	36.2524302	-107.707084
9,200.00	91.70	269.43	5,228.92	-1,191.59	-4,081.92	1,911,148.54	537,024.56	36.2524247	-107.707762
9,400.00	91.70	269.43	5,222.99	-1,193.58	-4,281.82	1,911,146.26	536,824.66	36.2524192	-107.708440
9,600.00	91.70	269.43	5,217.05	-1,195.57	-4,481.72	1,911,143.98	536,624.76	36.2524136	-107.709118
9,800.00	91.70	269.43	5,211.12	-1,197.56	-4,681.63	1,911,141.71	536,424.86	36.2524081	-107.709796
10,000.00	91.70	269.43	5,205.18	-1,199.55	-4,881.53	1,911,139.43	536,224.97	36.2524025	-107.710474
10,200.00	91.70	269.43	5,199.25	-1,201.54	-5,081.43	1,911,137.15	536,025.07	36.2523969	-107.711152
10,400.00	91.70	269.43	5,193.31	-1,203.53	-5,281.33	1,911,134.88	535,825.17	36.2523914	-107.711830
10,545.37	91.70	269.43	5,189.00	-1,204.97	-5,426.63	1,911,133.22	535,679.87	36.2523873	-107.712322

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
TD / PBHL #459H - plan hits target ce - Point	0.00 nter	0.00	5,189.00	-1,204.97	-5,426.63	1,911,133.22	535,679.87	36.2523873	-107.7123228
POE #459H - plan hits target ce - Point	0.00 nter	0.00	5,327.00	-1,158.72	-778.04	1,911,186.16	540,328.39	36.2525158	-107.6965568

Plan Annota	tions				
	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
	1,339.44	1,329.49	-107.89	-6.52	Hold 15.79 Inc, 183.46 Az
ł	4,813.92	4,672.88	-1,051.54	-63.57	KOP 9/100 Build & Turn
1	5,482.28	5,211.99	-1,154.85	-388.90	Hold 60° for 60'
	5,542.28	5,241.99	-1,155.37	-440.86	Begin 9/100 Build
ļ	5,894.50	5,327.00	-1,158.72	-778.04	Landing Pt./ Hold 91.7 Inc, 269.43 Az
	10,545.37	5,189.00	-1,204.97	-5,426.63	TD at 10545.37



Well Name: Chaco 2308-04L #459H

Surface Location: Chaco 2308-04L

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

Ground Elevation: 6868.00

WELL @ 6883.00usft (Original Well Elev)

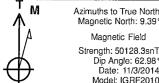
Northing +N/-S +E/-W 0.00 0.00 1912346.00

Easting 541104.76

Latittude 36.2556990 Longitude

Slot

-107.6939180

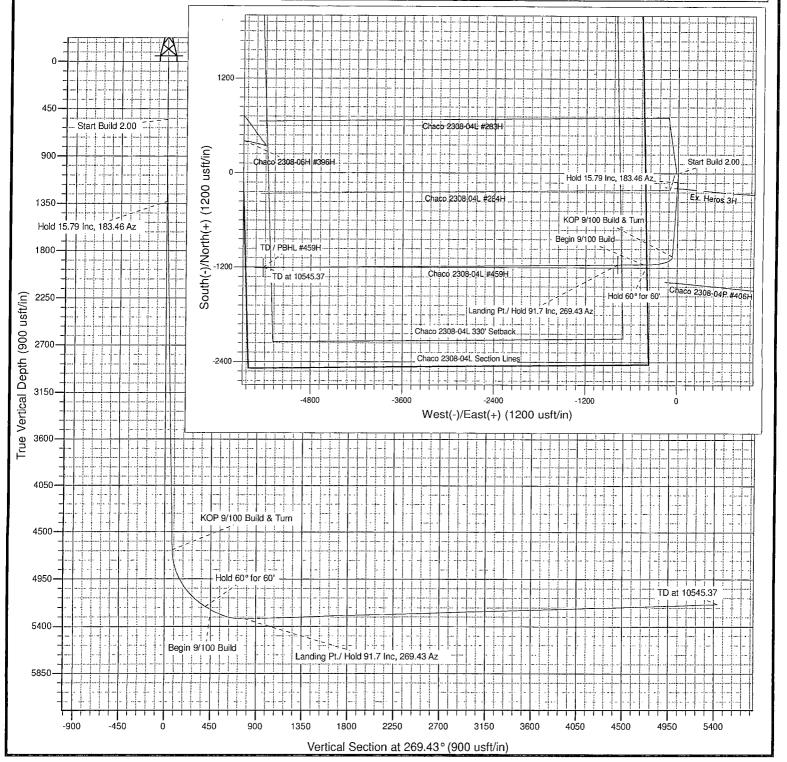


Magnetic Field Strength: 50128.3snT Dip Angle: 62.98° Date: 11/3/2014 Model: IGRF2010

Project: SJ 04-23N-08W Site: Chaco 2308-04L Well: Chaco 2308-04L #459H Design #1 03Nov14 kjs

L	ANNOTATIONS												
TVD 550.00 1329.49 4672.88 5211.99 5241.99 5327.00 5189.03	MD 550.00 1339.44 4813.92 5482.28 5542.28 5894.50 10544.37	Inc 0.00 15.79 15.79 60.00 60.00 91.70 91.70	Azi 0.00 183.46 183.46 269.43 269.43 269.43	+N/-S 0.00 -107.89 -1051.54 -1154.85 -1155.37 -1158.72 -1204.96	+E/-W 0.00 -6.52 -63.57 -388.90 -440.86 -778.04 -5425.63	VSect 0.00 7.60 74.03 400.37 452.33 789.53 5437.35	Departure 0.00 108.08 1053.46 1415.06 1467.02 1804.22 6452.04	Annotation Start Build 2.00 Hold 15.79 Inc, 183.46 Az KOP 9/100 Build & Turn Hold 60° for 60° Begin 9/100 Build Landing Pt./ Hold 91.7 Inc, 269.43 Az TD at 10545.37					





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

D. Production Facilities

- 1. As practical, access will be a teardrop-shaped road through the production area so that the center may be revegetated.
- 2. 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.
- 3. 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 A).

7. METHODS FOR HANDLING WASTE

A. Cuttings

- ✓ 1. 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

1. 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 B for the location of toilets).
- E. Garbage and other water material
 - 1. Garbage, trash, and other waste materials will be collected in a portable, self-contained, and fully enclosed trash container during drilling and completion operations. The

<u>Directions from the Intersection of US Hwy 550 & US Hwy 64</u> in Bloomfield, NM to WPX Energy Production, LLC Chaco 2308-04L #459H 2431' FSL & 427' FWL, Section 4, T23N, R8W, N.M.P.M., San Juan County, NM

Latitude: 36.255712°N Longitude: 107.694529°W Datum: NAD1983

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Southerly on US Hwy 550 for 39.5 miles to Mile Marker 111.7 to existing highway access approach from which new access continues for 4029.0' to staked WPX Chaco 2308-04L #459H location.

