### State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

David Martin Cabinet Secretary-Designate

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



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>12-1-14</u> Well information; Operator <u>WPX</u>, Well Name and Number <u>NE Charo (om #254 H</u>

API#<u>30-039-31289</u>, Section <u>5</u>, Township <u>23</u> (NS, Range <u>6</u> E/

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.

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

* 						,		
(September 2001)				<b>F *</b> * * *		FORM OMB 1	I APPROVE No. 1004-01	D 36
		UNITED STATES			/	Expires J	anuary 31,	2004
	D	EPARTMENT OF THE IN	ITERIOR			5. Lease Serial No	! <u>.</u>	
	E	UREAU OF LAND MANA	GEMENT		2	NMSF0078362		
	APPLICATIO	IN FOR PERMIT TO DR			2014 ئ	6. If Indian, Allotte	e or Tribe	Name
la. Type of Work:	🛛 DRILL	<b>REENTEF</b>	٤	FORMET		7. If Unit or CA Ag	reement, N	lame and No.
				2 - 11 21 21 21 21 21 21 21 21 21 21 21 21	· · · · ·	. CA-132829 8. Lease Name and	Well No.	<u>_</u>
1b. Type of Well:		Gas well Other		ingle Zone 📋 Multi	ple Zone	NE Chaco COM #	254H	
2. Name of Operat	or					9. API Well No.	039	- 31789
3a. Address			3b. Phone N	o. (include area code)		10. Field and Pool, or	r Explorate	
P.O. Box 640 Azt	ec, NM 87410		(505) 333-	1849		Chaco Unit NE HZ		5
4. Location of Well	(Report location cl	learly and in accordance with any .	State requiren	ients. *)	<u></u>	11. Sec., T., R., M., o	or Blk. and	Survey or Area
At surface 132	5' FSL & 250' F	NL, sec 5, T23N, R6W	-					
At proposed pro	d. zone 2443' FN	L & 250' FEL, sec 1, T23N, R	7W			SHL: Section 5, 1 BHL: Section 1, 7	23N, R6V 23N, R7V	N N
14. Distance in miles	and direction from	n nearest town or post office*				12. County or Parish		13. State
approximately 4 mil	es east of Lybroo	ok, New Mexico	٦			Rio Arriba County	/	NM
15. Distance from pr	oposed*		16. No. of	Acres in lease	17. Spacing	g Unit dedicated to this	well	
property or lease	line, ft.	N N	2,530	0.37				
(Also to nearest	drig. unit line, if ar	<sup>1y)</sup> 250'	9;237-3	1		950.07 acres		
to nearest well, d	illing, completed,		19. Propos	ed Depth	20. BLM/B	BIA Bond No. on file		
applied for, on the	s lease, ft.	22'	11,500' N	D / 5,468' TVD	UТВ00	0178		
21. Elevations (Show	w whether DF, KI	)B, RT, GL, etc.)	22. Approx	timate date work will st	art*	23. Estimated durati	on	
6830' GR			February 1,	2015		1 month		
			24. Atta	chments				
3. A Surface Use Pla SUPD shall be fi	in (if the location ed with the appro	is on National Forest System L priate Forest Service Office).	Lands, the	6. Such other site s authorized office	pecific infor r.	rmation and/or plans a	as may be	required by the
BARLE	<u> </u>	2	Andre	a Felix			12	-1-2014
Regulatory Speciali	st 1	/						, ,
Approved by (Signatu	5/ M	milles in	Name	(Printed/Typed)			Date	16/14
Title	7 110	NEM.	Offic	FFA		· • • •	<u> </u>	
Application approval operations thereon.	loes not warrant of	certify that the applicant holds le	egal or equita	ole title to those rights in	the subject l	ease which would entit	le the appli	cant to conduct
Title 18 U.S.C. Section	n 1001 and Title	13 U.S.C. Section 1212, make it a	a crime for ar	y person knowingly and	l willfully to	make to any departme	nt or agend	cy of the United
fates any false, fictifi	e)	tatements or representations as to	any matter w	thin its jurisdiction.				
VPX Energy Product and surface use plan	ction, LLC, propo ns.	ses to develop the Chaco Uni	t NE HZ (OI	L) pool at the above d	escribed loc	cation in accordance	with the a	ttached drilling
he well pad surface	e is on lease und	er jurisdiction of BLM FFO and	d is co-locat	ed with the NE Chaco	COM #255	H, 265H, and 264H.		
his location has be	en archaeologica	ally surveyed by La Plata Arch	aeological C	onsultants. Copies of	their report	have been submitted	1 directly t	o the BLM.
lew access road is	approximately 7	02' on lease on BLM surface.			PLM'S	APPROVAL ON	1000	
lew pipeline is appi	oximately 983.3'	on lease on BLM surface.	OIL C	ONS. DIV DIST.	3.CTIO	N DOES NOT RI	ELIEVE	THE LESSET
This action is Theorem and Epursuant to 43 Eappeal pursuant above methods and	subject to procedural revis CFR 3165:3688 Int to 43:05R031	387 10 165.4	D	EC 172014	UTHC	DR FROM OB DRIZATION REQ DERAL AND INE	FAININ PUIRED DIAN LA	G ANY OTHE FOR OPERATION
DRILLING OPER ARE SUBJECT T ATTACHED "GEI	ATIONS AUTHORI O Compliance V Neral Requirem	zed Vith Ients"		NMCCDPV				

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

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16 \_\_\_\_ 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

AMENDED REPORT

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

			ļ	WELL LO	CATIC	ON AND	) ACR	EAGE DED	ICATION	PLA	Г		
2	50 N2	PI Numbe		9	Pool Cod 98088	ie 3		CH.	ACO UNIT	ool Nam - NE	e HZ (OIL	_)	
	Property	Code	Jaco			Pr	operty	Name				•Wel	1 Number
	31380	0				NE	CHACO	) COM	·····		254H		
	'OGRID N 12078	10. 2			WPX	ENERG	erator Name ( PRODUCTION, LLC				*Elevation 6830		evation 5830'
			·			<sup>10</sup> Sur f	ace L	ocation		<u> </u>			
	L or lot no.	5ect 100	23N	6W	Lot Idn	132	5	SOUTH	Feet from 250	) the	WEST	- -	RIO ARRIBA
		Saction	1 Township	<sup>1</sup> Bottom	Hole	Locati	on If	Different	From SL	ir face	Eact (Woot 1	ling	Chipty
U	H	1	23N	7W	12	244	3	NORTH	250		EAST	ine	RIO
- <u>12</u> (	Acres Er 50.07	ntire S N∕2 S€	Section ection 1	6, T23N, , T23N,	R6W R7W	<sup>13</sup> Joint or ]	Infill <sup>1</sup>	Consolidation Code	<sup>15</sup> Order No. R-1	3817 <i>A</i>	9,2	237.3 a	acres
		BEEN C	ONSOL IDA RECORD) W 2576.64 7 W 2576.14		A NON-S	STANDAF	(RE NO 42 W NO 01 44	T HAS BEEN 2601.06 ' 'E 2507.10 '	APPROVE	BY	THE DIV: PERATO aby certify is true ar	ISION	RTIFICAT e information cov
	(REC N87 *36 W N86 *55 '28 (MEAS	(ME 2562.78 W 2561.75 URED)	S89 5 N89 23 (M	(RECORD) 1 W 2651.88 05 W 2652.9 EASURED)	. SE 16' N89	(RECORL 39 *51 W 25 *22 *48 W 2 (MEASURE	(MEA )) 00.40′ 2600.20′ ED)	URED) (RECOF N89 *47 W 2 N89 *01 '15 W (MEASUR	70) 2632.74' 2632.74' RED)	knowl either miner proposito dr to dr to a	edge and bel owns a wor al interest sed bottom-r ill this wel contract wit owning intere	lief. and rking in in the nole loca 11 at th th an ow est. or t	that this organ terest or unleas land including th ation or has a r is location pursu ner of such a m o a voluntary po
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	LOT	LOT		<b>_</b>			IL CO	IS. DIV DIS	ST. 3	An Print	drea Fel	ix (	Date
ا 1 <sup>.</sup>		12	5 5				DE	C 1 7 2014		E-mai	1 Address	x@wp	xenergy.com
	LOT 14	LOT 13	LOT 6 <b>X-1</b> 9	NTO°C	24.6W 546	38.6,	57°26.4'W 688.4'	250'	- 5	I he show note my s and	JRVEYOF reby certify n on this p s of actual supervision correct to	R CE lat was surveys and that the best	RTIFICAT: he well location plotted from fie made by me or u the same is tru of my belief.
	LOT 19	LOT 20					941	330 <sup>1</sup>  325 <sup>1</sup>		Dat Sur sign	e Revise vey Date ature and S	ed: NOV	VEMBER 5, 2 EMBER 25, 2 Professional Surv
	(MEAS) N87 *30 :40 "I N88 *14 'W (REC)	URED) 4 2552.36 2553.54' ORD) (ME NO 15'2	N88 57 N89 4 ASURED) 8 W 2575 40	1EASURED) '39''W 2620.6 11'W 2622.84 (RECORD)	50 N88 N89	(MEASURE) *55 '57 'W 20 9 *41 'W 260 (RECORD)	D) 607.57 )8.98' ) (MEA	(MEASUF N88 20'58'W N89 04'W 20 (RECOR SURED)			Show we want	IN C.	EDWARDS
		N01 *00 (F	2577.30 RECORD)	F	POINT-OF	N -ENTRY	0 °02'57' NO °42'W (RE)	E 2583.89′ 2583.90′ CORD) SURFACE LOCATI	'ON		REGISTER	(1526	SB) HEVER
		2443' FI SECTION LAT: 3 LONG: 1	₩_ 250 FE 1, T23N, R7 6.253953 N 07.519484 ¥ 4. M01927	EL 94. 7W SEC V LO	1 FSL TION 6 AT: 36.24 NG: 107.5	330 FEL T23N, R6W 19001 N 501905 W	13 SE	25' FSL 250' CTION 6, T23N, AT: 36.250039 DNG: 107.499954 ATIM: NAD192	FWL R6W *N 4 *W 7	-	10	AROFES	SIONAL

END-OF-LATERAL 2443'FNL 250'FEL SECTION 1, T23N, R7W LAT: 36.253953'N LONG: 107.519484'W DATH: MARCA27 POINT-OF-ENTRY 941' FSL 330' FEL SECTION 6, T23N, R6W LAT: 36.249001'N LONG: 107.501905'W DATUM: NAD1927 DATUM; NAD1927

LAT: 36.253966 \*N LONG: 107.520090 \*W DATUM: NAD1983

LAT: 36.249014 °N LONG: 107.502510 °W DATUM: NAD1983

SURFACE LOCATION 1325 FSL 250 FWL SECTION 6, T23N, R6W LAT: 36.250039 N LONG: 107.499954 W DATUM: NAD1927 LAT: 35.250052 °N LONG: 107.500559 °W

ASON

Certificate Number

.DWARDS

15269

DATUM: NAD1983



### WPX ENERGY

### **Operations Plan**

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

DATE:	10/22/2014	FIELD:	Chaco Unit NE HZ (Oil)
WELL NAME:	NE Chaco COM # 254H	SURFACE:	BLM
SH Location:	NWSW Sec 5 -23N -06W	ELEVATION:	6830' GR
BH Location:	SENE Sec 1 -23N -07W Rio Arriba CO., NM	MINERALS:	Federal
MEASURED DEPTH:	11,500	<u>LEASE #:</u>	NMSF0078362

### I. <u>GEOLOGY:</u> Surface formation – San Jose

### A. FORMATION TOPS: (KB)

Name	MD	TVD	Name	MD	TVD
Ojo Alamo	1389	1382	Point Lookout	4294	4252
Kirtland	1704	1694	Mancos	4529	4484
Picture Cliffs	2007	1993	Kickoff Point	4941	4895
Lewis	2112	2097	Top Target	5769	5517
Chacra	2451	2431	Landing Point	6012	5561
Cliff House	3553	3520	Base Target	6012	5561
Menefee	3592	3559			
			TD	11500	5468

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 <sup>3</sup>/<sub>4</sub>" 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 +/- 4,941' (MD) / 4,895' (TVD). Curve portion of wellbore will be drilled and landed at +/- 90 deg. at +/- 6,012' (MD) / 5,561' (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 +/- 11,500' (MD) / 5,468' (TVD). Will run 4-1/2 in. Production Liner from +/- 5,862 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. <u>MATERIALS</u>

### 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"	6,012'	7"	23#	K-55
Prod. Liner	6.125"	5,862 - 11,500'	4-1/2"	11.6#	N-80
Tie-Back String	N/A	Surf 5,862'	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.
- <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., 2,500 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. <u>TIE-BACK CASING:</u> None

### C. **CEMENTING:**

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

- <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.
- 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). Test Casing to 1500 PSI for 30 minutes. Total Cement Volume: (1050 sx / 1461 cu-ft / 260 bbls). Mix with +/- 84,000 SCF Nitrogen. TOC at surface.
- <u>PRODUCTION LINER</u>: 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. <u>CBL</u>

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).

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

The Drilling Rig will be rigged down at this point and Completion operations will begin. After Stimulation and Testing operations are complete the 4-1/2" tie-back string will be removed from the well.

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



# SAN JUAN BASIN

SJ 5-23N-06W Chaco 2306-05L Chaco 2306-05L 254H - Slot 254H

Wellbore #1

Plan: Plan 19Oct14 kjs

# **Standard Planning Report - Geographic**

20 October, 2014



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## WPX

Planning Report - Geographic

Database:	COM	PASS-SANJU	AN		Local Co	ordinate Refe	rence:	Well Chaco 230	06-05L 254H - 8	Slot 254H
Company:	SAN	JUAN BASIN			TVD Refe	erence:		KB @ 6844.0us	sft (Original We	ll Elev)
Project.	OJ D-4	2314-0044			MD Refe	rence:		KB @ 6844.0us	sft (Original We	li Elev)
SILE.	Chao	- 2200-03L	EALL		North Re	terence:		True		
Well:	Mallh	J 2300-03L 2	94H		Survey C	alculation wet	nod:		ature	
vvelibore:	Dian	010 #1 100 at 14 kin						)		
Design:	Plan	19Oct14 Kjs								
Project	SJ 5-2	3N-06W, San	Juan county	/, NM	-					
Map System: Geo Datum:	US State NAD 192	e Plane 1927 27 (NADCON	(Exact solut CONUS)	ion)	System Da	atum:	M	ean Sea Level		
Map Zone:	New Me	xico West 30	33							
Site	Chaco	2306-05L								
			- N.		1.01(		• • •			
Site Position:	1 - 44	1		ortning:	1,910	2,443.61 USI	Latitude:			36.250090
From:	Lav	Long	Ea	isting:	598	-107.499920				
Position Uncertainty	/:		J.0 usft SI	ot Radius:		13.200 in	Grid Converg	ence:		0.20 *
Well	Chaco 2	2306-05L 254	H - Slot 254	H						
Well Position	+N/-S		0.0 usft	Northing:		1,910,425.58	usft Lati	tude:		36.250040
	+E/-W		0.0 usft	Easting:		598,300.88	usft Lon	aitude:		-107.499950
Position Uncertainty	,		0.0 usft	Wellbead Fleva	tion:	0.0	usft Gro	und Level:		6 830 0 usft
Wellbore	Wellbo	ore #1			· · · · · · · ·					
Magnetics	Мо	del Name	Sa	mple Date	Declina (°)	ation	Dip A (°	ngle )	Field St (n	trength T)
· · · ·· ··		IGRF201	J	10/19/2014	م، م 	9.32		63.01	· ·· ·· ·	50,155
Design	Plan 19	Oct14 kjs							<u> </u>	1
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venuea occuon.			Pi Depth From	hase: F (TVD)	2LAN + <b>N/-S</b>	Tie +Ē	On Depth: /-W	Dir	0.0 ection	
vertical officion.			P Depth From (usft)	hase: F I (TVD)	PLAN +N/-S (usft)	Tie +E (u	On Depth: /-W sft)	Dir	0.0 ection (°)	
			P Depth From (usft) 0.0	hase: F I (TVD)	PLAN +N/-S (usft) 0.0	Tie +Ē (u: 0	On Depth: /-W sft) .0	Dir 28	0.0 ection (°) 39.18	
Plan Sections	· · · · · · · · · · · · · · · · · · ·	· · · ·	P Depth From (usft) 0.0	hase: F	PLAN +N/-S (usft) 0.0	Tie +É (u:	On Depth: /-W sft) .0	Dir. 28	0.0 ection (°) 39.18	· · · · · · · · · · ·
Plan Sections Measured Depth Incli	ination	Azimuth	P Depth From (usft) 0.0 Vertical Depth	hase: F I (TVD) +N/-S	PLAN +N/-S (usft) 0.0 +E/-W	Tie +E (un 0 Dogleg Rate	On Depth: /-W sft) .0 Build Rate	Dir 28 Turn Rate	0.0 ection (°) 19.18 TFO	
Plan Sections Measured Depth Incli (usft)	ination (°)	Azimuth (°)	P Depth From (usft) 0.0 Vertical Depth (usft)	hase: F I (TVD) +N/-S (usft)	PLAN +N/-S (usft) 0.0 +E/-W (usft)	Tie +E (ur 0 Dogleg Rate (°/100usft)	On Depth: /-W sft) .0 Build Rate (°/100usft)	Dir 28 Turn Rate (°/100usft)	0.0 ection (°) 19.18 TFO (°)	Target
Plan Sections Measured Depth Incli (usft)	ination (°)	Azimuth (°)	P Depth From (usft) 0.0 Vertical Depth (usft)	hase: F (TVD) +N/-S (usft)	+N/-S (usft) 0.0 +E/-W (usft)	Tie +E (u: 0 Dogleg Rate (°/100usft)	On Depth: /-W sft) .0 Build Rate (°/100usft)	Dir 28 Turn Rate (°/100usft)	0.0 ection (°) 19.18 TFO (°)	Target
Plan Sections Measured Depth Incli (usft) 0.0	ination (°) 0.00	Azimuth (°) 0.00	P Depth From (usft) 0.0 Vertical Depth (usft) 0	hase: F (TVD) +N/-S (usft) 0 0.0	PLAN +N/-S (usft) 0.0 +E/-W (usft) 0.0	Tie +E (u: 0 Dogleg Rate (°/100usft) 0.00	On Depth: /-W sft) .0 Build Rate (°/100usft) 0.00	Dir 28 Turn Rate (°/100usft) 0.00	0.0 ection (°) 19.18 TFO (°) 0.00	Target
Plan Sections Measured Depth Incli (usft) 0.0 550.0	ination (°) 0.00 0.00	Azimuth (°) 0.00 0.00	P Depth From (usft) 0.0 Vertical Depth (usft) 0 550	hase: F (TVD) +N/-S (usft) 0 0.0 0 0.0	PLAN +N/-S (usft) 0.0 +E/-W (usft) 0.0 0.0	Tie +E (u: 0 Dogleg Rate (°/100usft) 0.00 0.00	On Depth: /-W sft) .0 Build Rate (°/100usft) 0.00 0.00	Dir 28 Turn Rate (*/100usft) 0.00 0.00	0.0 ection (°) 19.18 TFO (°) 0.00 0.00 0.00	Target
Plan Sections Measured Depth Incli (usft) 0.0 550.0 997.7	ination (°) 0.00 0.00 8.95	Azimuth (°) 0.00 0.00 172.14	P Depth From (usft) 0.0 Vertical Depth (usft) 0 550 995	hase: F (TVD) +N/-S (usft) 0 0.0 9 -34.6 0 570 5	PLAN +N/-S (usft) 0.0 +E/-W (usft) 0.0 0.0 4.8	Tie +E (ur 0 Dogleg Rate (*/100usft) 0.00 0.00 2.00	On Depth: /-W sft) .0 Build Rate (°/100usft) 0.00 0.00 2.00 2.00	Dir 28 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00	0.0 ection (°) 19.18 TFO (°) 0.00 0.00 172.14	Target
Plan Sections Measured Depth Incli (usft) 0.0 550.0 997.7 4,493.0 46.02	ination (°) 0.00 0.00 8.95 8.95 8.95	Azimuth (°) 0.00 0.00 172.14 172.14	P Depth From (usft) 0.0 Vertical Depth (usft) 0 550 995 4,448	hase: F (TVD) +N/-S (usft) .0 0.0 .0 0.0 .0 0.0 .0 0.0 .0 -34.6 6 -573.5 5 -200	PLAN +N/-S (usft) 0.0 +E/-W (usft) 0.0 0.0 4.8 79.2	Tie +E (ur 0 Dogleg Rate (*/100usft) 0.00 0.00 2.00 0.00	On Depth: /-W sft) .0 Build Rate (°/100usft) 0.00 0.00 2.00 0.00	Dir 28 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00	0.0 ection (°) 19.18 TFO (°) 0.00 0.00 172.14 0.00 120.00	Target
Plan Sections Measured Depth incli (usft) 0.0 550.0 997.7 4,493.0 4,940.7	ination (°) 0.00 0.00 8.95 8.95 0.00	Azimuth (°) 0.00 0.00 172.14 172.14 0.00	P Depth From (usft) 0.0 Vertical Depth (usft) 0 550 995 4,448 4,894	+N/-S (TVD) .0 0.0 .0 0.0 .0 0.0 .9 -34.6 6 -573.5 5 -608.1	PLAN +N/-S (usft) 0.0 +E/-W (usft) 0.0 0.0 4.8 79.2 84.0	Tie +E (ur 0 Dogleg Rate (*/100usft) 0.00 0.00 2.00 0.00 2.00	On Depth: /-W sft) .0 Build Rate (°/100usft) 0.00 0.00 2.00 0.00 -2.00	Dir 28 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00	0.0 ection (°) 19.18 TFO (°) 0.00 0.00 172.14 0.00 180.00 200 10	Target
Plan Sections Measured Depth Incli (usft) 0.0 550.0 997.7 4,493.0 4,940.7 5,607.4	ination (°) 0.00 0.00 8.95 8.95 0.00 60.00	Azimuth (°) 0.00 0.00 172.14 172.14 0.00 289.18	P Depth From (usft) 0.0 Vertical Depth (usft) 0 550 995 4,448 4,894 5,445	+N/-S (TVD) .0 0.0 .0 0.0 .0 0.0 .9 -34.6 6 -573.5 5 -608.1 8 -503.5	PLAN +N/-S (usft) 0.0 +E/-W (usft) 0.0 0.0 4.8 79.2 84.0 -216.6	Tie +E (ur 0 Dogleg Rate (*/100usft) 0.00 0.00 2.00 0.00 2.00 9.00	On Depth: /-W sft) .0 Build Rate (°/100usft) 0.00 0.00 2.00 0.00 -2.00 9.00	Dir 28 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.0 ection (°) 19.18 TFO (°) 0.00 0.00 172.14 0.00 180.00 289.18	Target
Plan Sections Measured Depth Incli (usft) 0.0 550.0 997.7 4,493.0 4,940.7 5,607.4 5,667.4	ination (°) 0.00 8.95 8.95 0.00 60.00 60.00	Azimuth (°) 0.00 0.00 172.14 172.14 0.00 289.18 289.18	P Depth From (usft) 0.0 Vertical Depth (usft) 0 550 995 4,448 4,894 5,445 5,475	+N/-S (TVD) 	PLAN +N/-S (usft) 0.0 +E/-W (usft) 0.0 0.0 4.8 79.2 84.0 -216.6 -265.7	Tie +E (ur 0 Dogleg Rate (*/100usft) 0.00 0.00 2.00 0.00 2.00 9.00 0.00	On Depth: /-W sft) .0 Build Rate (°/100usft) 0.00 0.00 2.00 0.00 -2.00 9.00 0.00	Dir 28 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.0 ection (°) 19.18 TFO (°) 0.00 0.00 172.14 0.00 180.00 289.18 0.00	Target
Plan Sections Measured Depth Incli (usft) 0.0 550.0 997.7 4,493.0 4,940.7 5,607.4 5,667.4 6,011.5	ination (°) 0.00 8.95 8.95 0.00 60.00 60.00 90.97	Azimuth (°) 0.00 0.00 172.14 172.14 0.00 289.18 289.18 289.18	P Depth From (usft) 0.0 Vertical Depth (usft) 0 550 995 4,448 4,894 5,445 5,475 5,561	+N/-S (TVD) .0 0.0 .0 0.0 .0 0.0 .9 -34.6 6 -573.5 5 -608.1 8 -503.5 8 -486.5 0 -378.3	PLAN +N/-S (usft) 0.0 +E/-W (usft) 0.0 0.0 4.8 79.2 84.0 -216.6 -265.7 -576.5	Tie +E (ur 0 Dogleg Rate (*/100usft) 0.00 0.00 2.00 0.00 2.00 9.00 0.00 9.00	On Depth: /-W sft) .0 Build Rate (*/100usft) 0.00 0.00 2.00 0.00 2.00 0.00 -2.00 9.00 0.00 9.00	Dir 28 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.0 ection (°) 19.18 TFO (°) 0.00 0.00 172.14 0.00 180.00 289.18 0.00 0.01	Target



### WPX Planning Report - Geographic

Database: COMPASS-SANJUAN Local Co-ordinate Reference: Well Chaco 2306-05L 254H - Slot 254H Company: SAN JUAN BASIN TVD Reference: KB @ 6844.0usft (Original Well Elev) SJ 5-23N-06W Project: MD Reference: KB @ 6844.0usft (Original Well Elev) Chaco 2306-05L Site: North Reference: True Well: Chaco 2306-05L 254H Survey Calculation Method: Minimum Curvature Wellbore: Wellbore #1 Design: Plan 19Oct14 kjs -----

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#### Planned Survey

Measured Depth		Inclination	Azimuth	Vertical imuth Depth	+N/-S	+E/-W	Map Northing	Map Easting			
	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude	
	0.0	0.00	0.00	0.0	0.0	0.0	1,910,425.58	598,300.88	36.250040	-107.499950	
	200.0	0.00	0.00	200.0	0.0	0.0	1,910,425.58	598,300.88	36.250040	-107.499950	
	400.0	0.00	0.00	400.0	0.0	0.0	1,910,425.58	598,300.88	36.250040	-107.499950	
	550.0	0.00	0.00	550.0	0.0	0.0	1,910,425.58	598,300.88	36.250040	-107.499950	
	Start Bui	ld 2.00									
	600.0	1.00	172.14	600.0	-0.4	0.1	1,910,425.15	598,300.94	36.250039	-107.499950	
	800.0	5.00	172.14	799.7	-10.8	1.5	1,910,414.78	598,302.41	36.250010	-107.499945	
	997.7	8.95	172.14	995.9	-34.6	4.8	1,910,391.01	598,305.77	36.249945	-107.499934	
	Hold 8.98	5 Inc, 172,14 A	172 14 .	008.2	34.0	4.8	1 910 390 66	508 205 82	26 240044	107 400024	
	1,000.0	895	172.14	990.2 1 195 7	-34.9	4.0	1,910,390.00	598,303.62	36.249944	-107.499934	
	1 400 0	8 95	172.14	1,700.7	-96.6	13.3	1 910 329 01	598 314 56	36 240775	107.499919	
	1,400.0	8 95	172.14	1,590.8	-127 4	17.6	1 910 298 19	598 318 92	36 249690	-107.499903	
	1,000.0	8.95	172.14	1,330.0	-158 3	21.9	1,910,290,19	508 323 20	36 249605	-107.499091	
	2,000,0	8.05	172.14	1,786.4	-189.1	26.1	1,010,207.57	508 327 65	36 249521	107.499070	
	2,000.0	895	172.14	2 183 5	-220.0	30.4	1,910,200.04	598 332 02	36 249321	-107.499802	
	2,200,0	8 95	172.14	2,185.5	-250.8	34.6	1 910 174 90	508 336 38	36 240351	-107.499047	
	2,400.0	8 95	172.14	2,501.1	-200.0	38.0	1 910 144 08	598 340 75	36 240266	-107.499033	
	2,000.0	8.95	172.14	2,376.2	-201.0	13.2	1,910,144.00	508 345 12	36 249200	-107.499010	
	2,000.0	8.95	172.14	2,170.2	-312.3	43.2	1 910 082 43	598,349,12	36 240007	-107.499604	
	3,000.0	8.05	172.14	2,373.0	-343.3	517	1,910,002.43	508 252 85	36 240012	-107.499709	
	3,200.0	0.95	172.14	3,171.3	-374.1	55.0	1,910,031.01	590,353.00	30.249012	-107.499773	
	3,400.0	0.95	172.14	3,300.9	-403.0	55.9	1,910,020.79	509 262 59	26 240920	-107.499701	
	3,000.0	0.95	172.14	3,300.5	-433.6	60.Z	1,909,909.97	509 266 04	30.240043	-107.499740	
	3,800.0	0.90	172.14	3,764.0	-400.7	04.0	1,909,939.14	590,300.94	30.240/30	-107.499732	
	4,000.0	0.93	172.14	3,901.0	-497.5	72.0	1,909,920.32	590,371.31	30.240073	-107.499717	
	4,200.0	0.95	172.14	4,139.2	-520.5	73.0	1,909,097.00	590,575.00	30.240309	-107.499703	
	4,400.0	0.95	172.14	4,300.7	-559.2	70.2	1,909,000.00	509 390,000.04	30.240304	-107.499000	
	4,493.0	0.95 	172.14	4,440.0	-573.5	19.2	1,909,032.34	596,562.07	30.240403	-107.499662	
	4 600 D	p -2.00 6 81	172 14	4 554 6	-588 1	81.2	1 909 837 81	598 384 13	36 248425	-107 499675	
	4 800 0	2.81	172 14	4 753 8	-604 7	83.5	1 909 821 19	598 386 48	36 248379	-107 499667	
	4 940 7	0.00	172 14	4 894 5	-608.1	84.0	1 909 817 77	598 386 97	36 248370	-107 499665	
	KOP 9%1	0.00		1,001.0	000.1	01.0	.,	000,000,00		101.100000	
	5.000.0	5.33	. 289.18	4,953,7	-607.2	81.4	1,909.818.67	598,384,36	36.248372	-107 499674	
	5 200 0	23.33	289.18	5,146.7	-591.0	34.8	1.909.834.71	598.337.74	36.248417	-107 499832	
	5,400.0	41.33	289.18	5.314.9	-556.0	-65.8	1,909,869,36	598.237.00	36.248513	-107,500173	
	5,600,0	59.33	289.18	5.442.1	-505.6	-210.6	1,909,919,23	598.092.02	36.248651	-107.500665	
	5,607.4	60.00	289.18	5,445.8	-503.5	-216.6	1,909,921.31	598,085.98	36.248657	-107.500685	
	Hold 60°	for 60'						· .			
	5,667.4	60.00	289.18	5,475.8	-486.5	-265.7	1,909,938.21	598,036.84	36.248704	-107.500851	
	Start 9°/1	00 Build		,							
	5,800.0	71.93	289.18	5,529.7	-446.7	-379.9	1,909,977.54	597,922.53	36.248813	-107.501239	
	6,000.0	89.93	289.18	5,561.1	-382.1	-565.7	1,910,041.53	597,736.54	36.248990	-107.501869	
	6,011.5	90.97	289.18	5,561.0	-378.3	-576.5	1,910,045.26	597,725.68	36.249001	-107.501905	
	Landing I	Pt / Hold 90.97	7 Inc, 289.18 /	Az - POP Chac	o 2306-05L 2	54H					
	6,200.0	90.97	289.18	5,557.8	-316.4	-754.5	1,910,106.59	597,547.45	36.249171	-107.502509	
	6,400.0	90.97	289.18	5,554.4	-250,7	-943.4	1,910,171.65	597,358.36	36.249351	-107.503150	
	6,600.0	90.97	289.18	5,551.1	-185.0	-1,132.3	1,910,236.71	597,169.27	36.249532	-107.503790	
	6,800.0	90.97	289.18	5,547.7	-119.3	-1,321.1	1,910,301.77	596,980.17	36.249712	-107.504431	
	7,000.0	90.97	289.18	5,544.3	-53.5	-1,510.0	1,910,366.83	596,791.08	36.249893	-107.505071	
	7,200.0	90.97	289.18	5,540.9	12.2	-1,698.9	1,910,431.90	596,601.99	36.250073	-107.505712	
	7,400.0	90.97	289.18	5,537.5	77.9	-1,887.7	1,910,496.96	596,412.90	36.250254	-107.506352	
	7,600.0	90.97	289.18	5,534.1	143.6	-2,076.6	1,910,562.02	596,223.81	36.250434	-107.506993	
	7,800.0	90.97	289.18	5,530.7	209.3	-2,265.5	1,910,627.08	596,034.72	36.250615	-107.507633	

COMPASS 5000.1 Build 72



# WPX

Planning Report - Geographic

guia acurra u	م السب الدائل هذا الدينة الدين المكرم من المكرد المكرمين. السبي الدائلي المدينة المراجع المالية المكرم المالية المكرمين ال	égin glubus nobhrumain sunaisian samma	اليسكنين فلسجاد الالاساكليسة دوم السلم دردم الدائم المالية ما المراجع المالية. اليستانية السلومين المالية الالتينية التاريخ المراجع المسلح الماليسينية المالية المالية المالية الم
Database:	COMPASS-SANJUAN	Local Co-ordinate Reference:	Well Chaco 2306-05L 254H - Slot 254H
Company:	SAN JUAN BASIN	TVD Reference:	KB @ 6844.0usft (Original Well Elev)
Project:	SJ 5-23N-06W	MD Reference:	KB @ 6844.0usft (Original Well Elev)
Site:	Chaco 2306-05L	North Reference:	True
Well:	Chaco 2306-05L 254H	<ul> <li>Survey Calculation Method:</li> </ul>	Minimum Curvature
Wellbore:	Wellbore #1	-	
Design:	Plan 19Oct14 kis		

#### Planned Survey

	(°)	(°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
8,000.0	90.97	289.18	5,527.3	275.0	-2,454.3	1,910,692.14	595,845.63	36.250795	-107.508274
8,200,0	90.97	289.18	5,523.9	340.7	-2,643.2	1,910,757.20	595,656.53	36.250976	-107.508915
8,400.0	90.97	289.18	5,520.5	406.4	-2,832.1	1,910,822.26	595,467.44	36.251156	-107.509555
8,600.0	90.97	289.18	5,517.2	472.1	-3,020.9	1,910,887.33	595,278.35	36.251337	-107.510196
8,800.0	90.97	289.18	5,513.8	537.9	-3,209.8	1,910,952.39	595,089.26	36.251517	-107.510836
9,000.0	90.97	289.18	5,510.4	603,6	-3,398.7	1,911,017.45	594,900.17	36.251698	-107.511477
9,200.0	90.97	289.18	5,507.0	669,3	-3,587.5	1,911,082.51	594,711.08	36.251878	-107.512117
9,400.0	90.97	289.18	5,503.6	735.0	-3,776.4	1,911,147.57	594,521.99	36.252059	-107.512758
9,600.0	90.97	289.18	5,500.2	800.7	-3,965.2	1,911,212.63	594,332.90	36.252239	-107.513399
9,800.0	90.97	289.18	5,496.8	866.4	-4,154.1	1,911,277.70	594,143.80	36.252419	-107.514039
10,000.0	90.97	289.18	5,493.4	932.1	-4,343.0	1,911,342.76	593,954.71	36.252600	-107.514680
10,200.0	90.97	289.18	5,490.0	997.8	-4,531.8	1,911,407.82	593,765.62	36.252780	-107.515320
10,400.0	90.97	289.18	5,486.6	1,063.6	-4,720.7	1,911,472.88	593,576.53	36.252961	~107.515961
10,600.0	90.97	289.18	5,483.3	1,129.3	-4,909.6	1,911,537.94	593,387.44	36.253141	-107.516601
10,800.0	90.97	289.18	5,479.9	1,195.0	-5,098.4	1,911,603.00	593,198.35	36.253322	-107.517242
11,000.0	90.97	289.18	5,476.5	1,260.7	-5,287.3	1,911,668.06	593,009.26	36.253502	~107.517883
11,200.0	90,97	289.18	5,473.1	1,326.4	-5,476.2	1,911,733.13	592,820.17	36.253682	~107.518523
11,400.0	90.97	289.18	5,469.7	1,392.1	-5,665.0	1,911,798.19	592,631.07	36.253863	-107.519164
11,499.1	90.97	289.18	5,468.0	1,424.7	-5,758.6	1,911,830.43	592,537.38	36.253952	-107,519481
TD at 11500	0.1								
11,500.1	90.97	289.18	5,468.0	1,425.0	-5,759.5	1,911,830.73	592,536.48	36.253953	-107.519484
TD / PBHL	Chaco 2306	-05L 254H							

Design Targets	vesiðu talðara													
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 Chaco 2306- - plan hits target cent - Point	0.00 er	0.00	5,468.0	1,425.0	-5,759.5	1,911,830.73	592,536.48	36.253953	-107.519484					
POP Chaco 2306-05L 2! - plan misses target c - Point	0.00 enter by 0.1u	0.00 Isft at 6011.5	5,561.0 Susft MD (556	-378.2 61.0 TVD, -37	-576.5 8.3 N, -576.5	1,910,045.39 E)	597,725.72	36.249001	-107.501905					

Measu	ired	Vertical	Local Coord	dinates		Í
Dep (usf	Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
	550.0	550.0	0.0	0.0	Start Build 2.00	 - ^
9	997.7	995.9	-34.6	4.8	Hold 8.95 Inc, 172.14 Az	
4,4	493.0	4,448.6	-573.5	79.2	Start Drop -2.00	
4,9	940.7	4,894.5	-608.1	84.0	KOP 9°/100	
5,0	307.4	5,445.8	-503.5	-216.6	Hold 60° for 60'	
5.	667.4	5,475.8	-486.5	-265.7	Start 9°/100 Build	ļ
6,	011.5	5,561.0	-378.3	-576.5	Landing Pt / Hold 90.97 Inc, 289.18 Az	Í
	499.1	5,468.0	1,424.7	-5,758.6	TD at 11500.1	ł



## 9. METHODS FOR HANDLING WASTE DISPOSAL

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

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

All garbage and trash will be placed in a metal trash basket. The trash and garbage will be hauled off site and dumped in an approved landfill, as needed. Portable toilets will be provided and maintained during construction, as needed (see Figures B.3 and B.4 [Appendix B] for the location of toilet[s] and trash receptacle[s]).

## 10. ANCILLARY FACILITIES

Three potential TUAs (all previously disturbed well pads) will be used; they are described in Section 2.2 (Project Location and Description - Project Description). During staging, WPX will stay within the boundaries of the previously disturbed well pads. During interim (post-construction) reclamation, WPX will repair any damage to and reseed the TUAs (with the exception of portions of well pads that Elm Ridge or Bannon prefers to remain unseeded).

# 11. WELL SITE LAYOUT

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

- The following areas (known as the "non-reseed working areas") will remain unreclaimed throughout the lifetime of the project:
  - Production facilities will be located within a 300-foot-by-100-foot (0.7-acre) facility area at the northeastern end of the well pad.
  - The teardrop for the well pad will include a looped, 35-foot-wide driving surface, totaling approximately 0.4 acre.
- The following areas (known as the "reseed working areas") will be reseeded (but not recontoured) during interim reclamation:
  - The center of the teardrop will measure approximately 0.3 acre.
  - A 210-by-180-foot (0.9-acre) workover area will surround each wellhead. This area may be used for future activities within the well pad, but will not be used for daily activities. After excluding the portions of these polygons that overlap one another, the teardrop, and the teardrop center, this area measures approximately 0.8 acre.

## **B.1.** Location of Potential TUAs and Access to Project Area



## **B.2.** Existing Wells, Proposed Wells, and Water Features within 1-Mile Radius of Project Area



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

### in Bloomfield, NM to WPX Energy Production, LLC NE Chaco COM #254H

### 1325' FSL & 250' FWL, Section 5, T23N, R6W, N.M.P.M., Rio Arriba County, NM

### Latitude: 36.250052°N Longitude: 107.500559°W Datum: NAD1983

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Southerly on US Hwy 550 for 50.2 miles to Mile Marker 101;

Go Left (Northerly) for 0.3 miles to fork in roadway;

Go Right (Northerly) which is straight for 0.9 miles to fork in roadway;

Go Right (Northerly) which is straight for 0.6 miles to fork in road at Elm Ridge Marcus #2 well;

Go Right (Easterly) for 0.5 miles to new access on right-hand side of existing roadway which continues for 702' to staked WPX NE Chaco COM #254H location.



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