State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez

Governor

David Martin

Cabinet Secretary-Designate

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



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-3 APD form.

to the actions approved by BLM on the following 3160-3 APD form.
Operator Signature Date: //- 5-14 Well information; Operator WPX , Well Name and Number NW Lybrok Uni+#133 H
API# $45 - 35623$, Section 36 , Township 24 (N)S, Range 9 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 NSD, 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.
Charles Sern- NMOCD Approved by Signature 2-5-2015 Date 10
NMOCD Approved by Signature Date

OIL CONS. DIV DIST. 3

Form 3160-3 (September 2001) NOV 1 9 2014

UNITED STATES

DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0136 Expires January 31, 2004

.5. Lease Serial No.

14	NO

BUREAU OF LAND MANAGEMENT	MOA	05	ZU
DI ICATION EOD DEDMIT TO DDILL OD	DEENTED		

6. If Indian, Allottee or Tribe Name

			2. 7 Crale	1 1886	i Navajo aliottine	iii
la. Type of Work: 🛛 DRILL 🔲 REENTE	ER B:	~- "Ce!	and Ma	باللار المحالة	77. If Unit or CA Agre	ement, Name and No.
	•				NW Lybrook Unit 8. Lease Name and W	ell No
1b. Type of Well: Oil Well Gas Well Other	\boxtimes :	Single Zone	Multij	ple Zone	NW Lybrook UT #13	
2. Name of Operator					9. API Well No.	011
,						35623
WPX Energy Production, LLC 3a. Address	3b. Phone N	o. (include a	rea code)		10. Field and Pool, or I	
P.O. Box 640 Aztec, NM 87410	(505) 333-		ŕ		Lybrook Unit NW HZ	•
4. Location of Well (Report location clearly and in accordance with any						Blk. and Survey or Area
At surface 736' FSL & 2531' FEL, sec 36, T24N, R8W		,			Surface: Sec 36, T	24N, R8W
At proposed prod. zone 1580' FSL & 230' FWL, sec 35, T24N	, R8W				BHL: Sec 35, T24N	I, R8W '
14. Distance in miles and direction from nearest town or post office*					12. County or Parish	13. State
approximately 5 miles northwest of Lybrook, New Mexico					San Juan County	NM
15. Distance from proposed*	16. No. of	Acres in leas	se	17. Spacing	g Unit dedicated to this w	vell
location to nearest property or lease line, ft.						
(Also to nearest drig. unit line, if any) 736'	160				280 acres	
 Distance from proposed location* to nearest well, drilling, completed, 	19. Propos	ed Depth		20. BLM/B	IA Bond No. on file	
applied for, on this lease, ft.						
22'		1D / 5,469'		UTB00	0178 23. Estimated duration	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	1 **	ximate date		arı*	1	1
6893' GR		er 15, 2014			1 month	
		chments				
The following, completed in accordance with the requirements of Onsho	ore Oil and Gas	Order No.1,	shall be atta	ched to this	form:	
1. Well plat certified by a registered surveyor.		4. Bond	to cover the	e operations	unless covered by an e	xisting bond on file (see
2. A Drilling Plan.	•		20 above).		•	· ·
3. A Surface Use Plan (if the location is on National Forest System			itor certifica		mation and/or plans so	may be required by the
SUPO shall be filed with the appropriate Forest Service Office).			rized office		mation and/or plans as	may be required by the
25. Signature	Name	(Printed/Typ	 ped)			Date
, Thehma		a Felix	,			11/5/14
Title	711010	AT CIIX				1,70,71.
Regulatory Specialist						1
Approved by (Signature)	Nam	e (Printed/Typ	red)			Date
1)/// ankewy						11/18/14
Title	Offic	e F	5			,
Application approval does not warrant or certify that the applicant holds	legal or equita	ble title to th	ose rights in	the subject le	ease which would entitle	the applicant to conduct
operations thereon.		.,	3	.3		
Conditions of approval, if any, are attached.						
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make i States any false, fictitious or fraudulent statements or representations as t	t a crime for a to any matter w	ny person kn rithin its juris	owingly and diction.	l willfully to	make to any department	or agency of the United

*(Instructions on reverse)

WPX Energy Production, LLC, proposes to develop the Lybrook Unit NW HZ (OIL) formation at the above described location in accordance with the attached drilling and surface use plans.

The well pad surface is under jurisdiction of the NMSLO. This location is shared with the NW Lybrook UT #134H.

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

235" of new access road is needed for this well site

An approximate 723" pipeline has been applied for these wells as a separate ROW action

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

DRILLING OPERATIONS AUTHORIZED
ARE SUBJECT TO COMPLIANCE WITH
ATTACHED "GENERAL REQUIREMENTS"

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



Olstrict 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) 476-3452

State of New Mexico Energy, Minerals & Natural Resources Department

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

Form C-102 Revised August 1, 2011

Submit one copy to Appropriate District Office

AMENDED REPORT

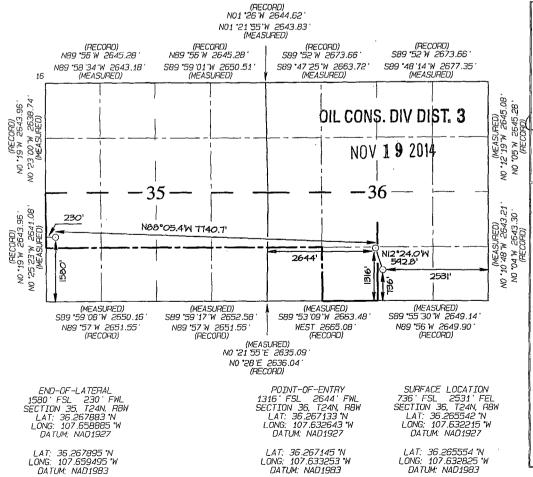
WELL LOCATION AND ACREAGE DEDICATION PLAT

NOV 05 2014 Pool Name 'API Number ²Pool Code TO THE COCK WELL NUMBER COMPANIAN. Lybrook Unit NW, HZ (OIL) 3b.045-3562 Property Code ⁵Property Name 138' NW Lybrook Unit 133H 'Elevation *Operator Name WPX ENERGY PRODUCTION, LLC 6893 120782

Lit me lot no. Townshin Feet from the North/South line County Section Range Lot Tdo Feet from the Fast/West line SOUTH 2531 SAN JUAN 0 36 24N EAST Location If Different From Surface ¹¹ Bottom Hole Section Range North/South line Feet from the County Lot Idn Feet from the East/West line SOUTH 230 35 24N 8W 1580 WEST SAN JUAN Dedicated Arres 280.0 Acres N/2 S/2 - Section 35 ¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order No. R-13921 N/2 + SE/4 SW/4 Section 36

¹⁰ Surface Location

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 I hereby centify 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 or a compulsory pooling order heretofore entered by the division. **Signature** Date**
RECOR	Andrea Felix
3	Printed Name andrea.felix@wpxenergy.com
1	E-mail Address
(HECOHD)	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: OCTOBER 27, 2014 Date of Survey: APRIL 11, 2014
	Signature and Seal of Professional Surveyor
	St. C. EDWARDS MEXICO MEXICO MEXICO MOTESSION ADTESSION MEXICO MEXICO
	Jason C. Edwards
ĺ	Certificate Number 15269



WPX ENERGY

Operations Plan

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

DATE:

10/20/2014

FIELD:

Lybrook Unit NW HZ (OIL)

WELL NAME:

NW Lybrook UT #133H

SURFACE:

State

SH Location:

SWSE Sec 36 -24N -08W

ELEVATION:

6893' GR

BH Location:

NWSW Sec 35 -24N -08W

San Juan CO., NM

MINERALS:

Indian Allotted

MEASURED DEPTH: 13,752'

LEASE #:

NO-G-0207-1609

. GEOLOGY:

Surface formation - Nacimeinto

A. FORMATION TOPS: (KB)

Name	MD	TVD	Name	MD_	TVD
Ojo Alamo	1303	1295	Point Lookout	4267	4193
Kirtland	1343	1334	Mancos	4505	4427
Picture Cliffs	1852	1832	Kickoff Point	4947	4867
Lewis	2044	2020	Top Target	5604	5414
Chacra	2316	4321	Landing Point	6012	5534
Cliff House	3394	3340	Base Target	6012	5534
Menefee	3443	3388			
			TD	13753	5469

- 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 +/- 4,947' (MD) / 4,867' (TVD). Curve portion of wellbore will be drilled and landed at +/- 90 deg. at +/- 6,012' (MD) / 5,534' (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 +/- 13,753' (MD) / 5,469' (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. 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"	6,012'	7"	23#	K-55
Prod. Liner	6.125"	5,862 - 13,753'	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.
- 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., 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft.
- 3. <u>PRODUCTION LINER:</u> Run 4-1/2" Liner with cement nose guide Float Shoe + 2jts. of 4-1/2" casing + Landing Collar + 4-1/2" pup joint + 1 RSI (Sliding Sleeve) positioned inside the 330ft Hard line. Centralizer program will be determined by Wellbore condition and when Lateral is evaluated by Geoscientists and Reservoir Engineers. Set seals on Liner Hanger. Test TOL to 1500 psi for 15 minutes.
- 4. TIE-BACK CASING: None

C. CEMENTING:

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

- 1. SURFACE: 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). 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.
- 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 (536.3 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).

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.



Well Name: Chaco 2408-36O#133H

Surface Location: Chaco 2408-36O

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

WELL @ 6907.0usft (Original Well Elev)

Ground Elevation: 6893.0

+N/-S +E/-W Northing 0.0 0.0 1915960.24

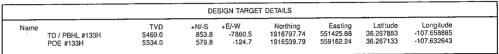
Easting 559288.18 Latittude 36.265540 Longitude -107.632220 Slot

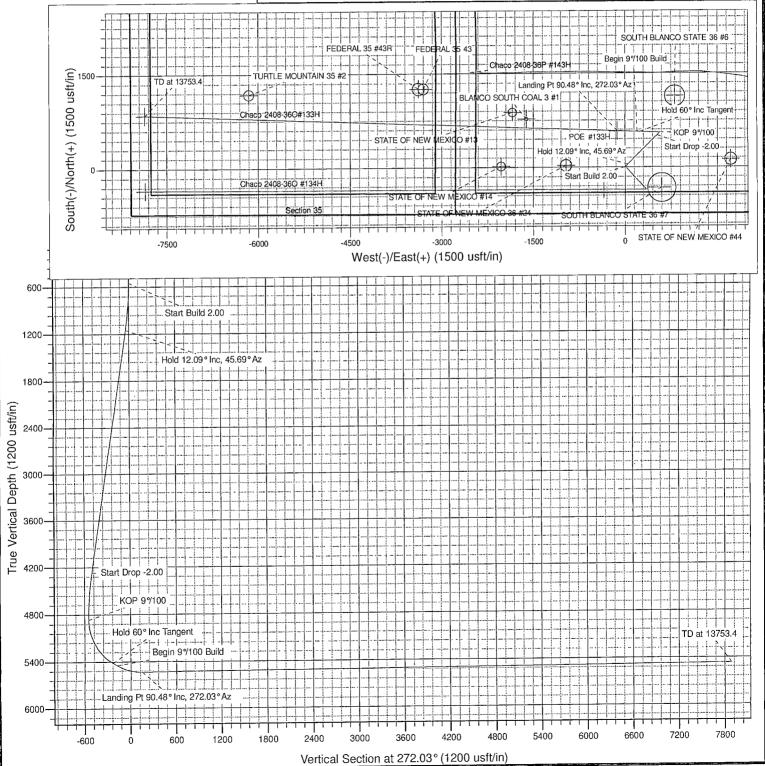
-

Azimuths to True North
Magnetic North: 9.38°
Magnetic Field
Strength: 50147,0snT
Dip Angle: 63.00°
Date: 10/15/2014
Model: IGRF2010

Project: SJ 36-24N-08W Site: Chaco 2408-36O Well: Chaco 2408-36O#133H Design #1 15Oct14 kjs

	ANNOTATIONS										
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure 0.0 63.5 731.3 794.8 1113.2 1165.1 1488.8 9228.5	Annotation			
550.0	550.0	0.00	0.00	0.0	0.0	0.0		Start Build 2.00			
1150.0	1154.5	12.09	45.69	44.4	45.5	-43.9		Hold 12.09° Inc, 45.69° Az			
4267.4	4342.5	12.09	45.69	510.8	523.3	-504.9		Start Drop -2.00			
4867.4	4947.1	0.00	0.00	555.2	568.8	-548.8		KOP 9'/100			
5418.7	5613.7	60.00	272.03	566.5	250.7	-230.5		Hold 60° Inc Tangent			
5448.7	5673.7	60.00	272.03	568.3	198.8	-178.5		Begin 9'/100 Build			
5534.0	6012.4	90.48	272.03	579.8	-124.7	145.2		Landing Pt 90.48° Inc, 272.03° Az			
5469.0	13752.4	90.48	272.03	853.8	-7859.6	7884.9		TD at 13753.4			







SAN JUAN BASIN

SJ 36-24N-08W Chaco 2408-36O Chaco 2408-36O#133H

Wellbore #1

Plan: Design #1 15Oct14 kjs

Standard Planning Report - Geographic

16 October, 2014



WPX

Planning Report - Geographic

Database: Company: COMPASS-SANJUAN

SAN JUAN BASIN

Project: Site:

SJ 36-24N-08W

Chaco 2408-36O

Well:

Chaco 2408-36O#133H

Wellbore:

Wellbore #1

Design:

Design #1 15Oct14 kjs

Local Co-ordinate Reference:

and the Malessan on the Former Latine Control Control of the Control Latine, the Control the Control and Control Contr

TVD Reference:

MD Reference:

System Datum:

North Reference:

WELL @ 6907.0usft (Original Well Elev) WELL @ 6907.0usft (Original Well Elev)

Survey Calculation Method:

Minimum Curvature

Mean Sea Level

Well Chaco 2408-36O#133H

Project

SJ 36-24N-08W, San Juan County

Map System:

US State Plane 1927 (Exact solution)

Geo Datum:

NAD 1927 (NADCON CONUS)

Map Zone:

Site

From:

Well

New Mexico West 3003

0.0 usft

Chaco 2408-36O

Site Position:

Well Position

Мар

Northing: Easting: Slot Radius:

1,915,960.24 usft

559,288.18 usft 13.200 in

Latitude: Longitude:

Grid Convergence:

36.265540 -107.632220 0.12°

Position Uncertainty:

Chaco 2408-36O#133H

+N/-S

0.0 usft +E/-W 0.0 usft

IGRF2010

Easting:

Northing: 1,915,960.24 usft

559,288.18 usft

9.38

Latitude: Longitude:

36.265540 -107.632220

Position Uncertainty

0.0 usft

Wellhead Elevation:

10/15/2014

0.0 usft

Ground Level:

63.00

6,893.0 usft

50.147

Wellbore	Wellbore #1	manu a sina y ario amin' a a amin' any ana amin'	engana gran ar de la compania de sano	and the state of the state of the the state of the state	. On the second of the second
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)

Design , Desi	gn #1 150ct14 kjs		11 1 7 mm 1 4 47 mm apriles 4 - 1000 mm	Annual of the second of the se
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	272.03

Measured			Vertical			Dogleg	Build	Turn		
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	er i de le per amonte d'Africagnesser
550.0	0.00	0.00	550.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,154.5	12.09	45.69	1,150.0	44.4	45.5	2.00	2.00	0.00	45.69	
4,342.5	12.09	45.69	4,267.4	510.8	523.3	0.00	0.00	0.00	0.00	
4,947.1	0.00	0.00	4,867.4	555.2	568.8	2.00	-2.00	0.00	180.00	
5,613.7	60.00	272.03	5,418.7	566.5	250.7	9.00	9.00	0.00	272.03	
5,673.7	60.00	272.03	5,448.7	568.3	198.8	0.00	0.00	0.00	0.00	
6,012.4	90.48	272.03	5,534.0	579.8	-124.7	9.00	9.00	0.00	0.00	•
13.753.4	90.48	272.03	5,469.0	853.8	-7,860.5	0.00	0.00	0.00	0.00	TD / PBHL #133



WPX

Planning Report - Geographic

Database:

والمراب والمنافرات والنافرات فتنصف عاراتها والمنافر ومقعوات والمراب فالمراب أواليان والمنافرات والمراب والم COMPASS-SANJUAN

Company:

SAN JUAN BASIN

Project: Site:

SJ 36-24N-08W Chaco 2408-36O

Well:

Chaco 2408-36O#133H

Wellbore:

Wellbore #1

Design:

Design #1 15Oct14 kis

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method: Well Chaco 2408-36O#133H

WELL @ 6907.0usft (Original Well Elev) WELL @ 6907.0usft (Original Well Elev)

Minimum Curvature

sign:	Desig	n #1 15Oct14	4 KJS			~~~			
anned Survey								,	
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	1,915,960.24	559,288.18	36.265540	-107.6322
200.0	0.00	0.00	200.0	0.0	0.0	1,915,960.24	559,288.18	36.265540	-107,6322
400.0	0.00	0.00	400.0	0.0	0.0	1,915,960.24	559,288.18	36.265540	-107.6322
550.0	0.00	0.00	550.0	0.0	0.0	1,915,960.24	559,288.18	36.265540	-107.6322
Start Buil	ld 2.00							•	
600.0	1.00	45.69	600.0	0.3	0.3	1,915,960.55	559,288.49	36.265541	-107.6322
800.0	5.00	45.69	799.7	7.6	7.8	1,915,967.87	559,295.97	36.265561	-107.632
1,000.0	9.00	45.69	998.2	24.6	25.2	1,915,984.93	559,313.37	36.265608	-107.6321
1,154.5	12.09	45.69	1,150.0	44.4	45.5	1,916,004.72	559,333.57	36,265662	-107.6320
Hold 12.0	9° Inc, 45.69°	A ₇							
1,200.0	12.09	45.69	1,194.5	51.0	52.3	1,916,011.39	559,340.37	36.265680	-107.6320
1,400.0	12.09	45.69	1,390.1	80.3	82.3	1,916,040.72	559,370.28	36.265761	-107.6319
1,600.0	12.09	45.69	1,585.6	109.6	112.2	1,916,070.04	559,400.20	36.265841	-107.6318
1,800.0	12.09	45.69	1,781.2	138.8	142.2	1,916,099.36	559,430.12	36.265921	-107.6317
2,000.0	12.09	45.69	1,976.8	168.1	172.2	1,916,128.69	559,460.04	36.266002	-107.6316
2,200.0	12.09	45.69	2,172.3	197.3	202.2	1,916,158.01	559,489.95	36.266082	-107.6315
2,400.0	12.09	45.69	2,367.9	226.6	232.2	1,916,187.33	559,519.87	36.266163	-107.6314
2,600.0	12.09	45.69	2,563.5	255.9	262.1	1,916,216.66	559,549.79	36,266243	-107.6313
2,800.0	12.09	45.69	2,759.0	285.1	292.1	1,916,245.98	559,579.70	36.266323	-107.6312
3,000.0	12.09	45.69	2,954.6	314.4	322.1	1,916,275.30	559,609.62	36.266404	-107.6311
3,200.0	12.09	45.69	3,150.2	343.7	352.1	1,916,304.63	559,639.54	36,266484	-107.6310
3,400.0	12.09	45.69	3,345.7	372.9	382.0	1,916,333.95	559,669.46	36.266565	-107.6309
3,600.0	12.09	45.69	3,541.3	402.2	412.0	1,916,363.27	559,699.37	36,266645	-107.6308
3,800.0	12.09	45.69	3,736.8	431.4	442.0	1,916,392.59	559,729.29	36.266725	-107.6307
4,000.0	12.09	45.69	3,932.4	460.7	472.0	1,916,421.92	559,759.21	36.266806	-107.6306
4,200.0	12.09	45.69	4,128.0	490.0	502.0	1,916,451.24	559,789.12	36.266886	-107.6305
4,342.5	12.09	45.69	4,267.4	510.8	523.3	1,916,472.14	559,810.45	36.266943	-107.6304
Start Dro		.0.00	1,201.1	010.0	020.0	1,010,112.11	000,010.10	00.2000 10	107.0001
4,400.0	10.94	45.69	4,323.6	518.8	531.5	1,916,480.17	559,818.64	36.266965	-107.6304
4,600.0	6.94	45.69	4,521.2	540.5	553.8	1,916,501.92	559,840.83	36.267025	-107.6303
4,800.0	2.94	45.69	4,720.4	552.6	566.1	1,916,513.98	559,853.13	36.267058	-107.6303
4,947.1	0.00	0.00	4,867.4	555.2	568.8	1,916,516.62	559,855.83	36.267065	-107.6302
KOP 9°/10		0.00	4,007.4	000.2	000.0	1,010,010.02	000,000.00	00.207000	107.0002
5,000.0	4.76	272.03	4,920.3	555.3	566.6	1,916,516.70	559,853.63	36.267066	-107.6302
5,200.0	22.76	272.03	5,113.7	557.0	519.2	1,916,518.28	559,806.27	36.267070	-107.6304
5,400.0	40.76	272.03	5,283.1	560.7	414.5	1,916,521.77	559,701.48	36.267080	-107.6308
5,600.0	58.76	272.03	5,411.7	566.1	262.5	1,916,526.84	559,549.51	36.267095	-107.6313
5,613.7	60.00	272.03	5,418.7	566.5	250.7	1,916,527.24	559,537.70	36.267096	-107.6313
	nc Tangent		2, . , 2			.,	,	,	
5,673.7	60.00	272.03	5,448.7	568.3	198.8	1,916,528.97	559,485.76	36.267101	-107.6315
Begin 9°/1		2,2.00	0,110.1	000.0	,00.0	1,010,020.07	330,133.73	00.201101	,51.5515
5,800.0	71.36	272.03	5,500.6	572.4	84.0	1,916,532.80	559,370.95	36.267113	-107.6319
6,000.0	89.36	272.03	5,534.0	579.3	-112.3	1,916,539.35	559,174.70	36.267132	-107.6326
6,000.0	90.48	272.03	5,534.0	579.8	-112.3	1,916,539.76	559,162.24	36.267133	-107.6326
				575.0	127.1	1,010,000.70	000, 102.27	00.207 100	107.0020
Landing P	t 90.48° Inc,			E06 1	210.0	1 016 546 01	558 074 81	36 267151	-107 6333
6,200.0	90.48	272.03	5,532.4 5,530.7	586.4 593.5	-312.2 -512.0	1,916,546.01 1,916,552.68	558,974.81 558,774.93	36.267151 36.267171	-107.6332 -107.6339
6,400.0	90.48	272.03	5,530.7		-512.0 -711.9			36,267171	-107.6346
6,600.0	90.48	272.03	5,529.1	600.6		1,916,559.34	558,575.05 558,375,17		
6,800.0	90.48	272.03	5,527.4	607.7	-911.8 1 111.6	1,916,566.01	558,375.17 558,475.20	36.267209 36.267229	-107.6353
7,000.0	90.48	272.03	5,525.7	614.7	-1,111.6 1 211.5	1,916,572.67	558,175.29 557,975,40	36.267229 36.267248	-107.6359
7,200.0	90.48	272.03	5,524.0	621.8	-1,311.5 1.511.4	1,916,579.34	557,975.40 557,775,52	36.267248 36.267268	-107.6366
7,400.0	90.48	272.03	5,522.3	628.9 636.0	-1,511.4 1 711.2	1,916,586.00	557,775.52	36.267268 36.267287	-107.6373 -107.63802
7,600.0 7,800.0	90.48 90.48	272.03 272.03	5,520.7 5,519.0	643.1	-1,711.2 -1,911.1	1,916,592.67 1,916,599.33	557,575.64 557,375.76	36.267306	-107.6387



WPX

Planning Report - Geographic

Database:

COMPASS-SANJUAN

Company: Project: SAN JUAN BASIN SJ 36-24N-08W

Site:

Chaco 2408-36O

Well: Wellbore: Chaco 2408-36O#133H

vvelibore

Wellbore #1

TD at 13753.4 - TD / PBHL #133H

Design:

Design #1 15Oct14 kjs

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method: Well Chaco 2408-36O#133H

WELL @ 6907.0usft (Original Well Elev) WELL @ 6907.0usft (Original Well Elev)

True

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
8,000.0	90.48	272.03	5,517.3	650.1	-2,111.0	1,916,606.00	557,175.88	36.267326	-107.63938
8,200.0	90.48	272.03	5,515.6	657.2	-2,310.8	1,916,612.67	556,976.00	36.267345	-107.6400
8,400.0	90.48	272.03	5,513.9	664.3	-2,510.7	1,916,619.33	556,776.11	36.267365	-107.6407
8,600.0	90.48	272.03	5,512.3	671.4	-2,710.6	1,916,626.00	556,576.23	36.267384	-107.6414
8,800.0	90.48	272.03	5,510.6	678.5	-2,910.4	1,916,632.66	556,376.35	36.267404	-107.6420
9,000.0	90.48	272.03	5,508.9	685.5	-3,110.3	1,916,639.33	556,176.47	36.267423	-107.6427
9,200.0	90.48	272.03	5,507.2	692.6	-3,310.2	1,916,645.99	555,976.59	36.267442	-107.6434
9,400.0	90.48	272.03	5,505.6	699.7	-3,510.0	1,916,652.66	555,776.70	36.267462	-107.64412
9,600.0	90.48	272.03	5,503.9	706.8	-3,709.9	1,916,659.32	555,576.82	36.267481	-107.6448
9,800.0	90.48	272.03	5,502.2	713.9	-3,909.8	1,916,665.99	555,376.94	36.267500	-107.6454
10,000.0	90.48	272.03	5,500.5	720.9	-4,109.6	1,916,672.65	555,177.06	36.267520	-107.6461
10,200.0	90.48	272.03	5,498.8	728.0	-4,309.5	1,916,679.32	554,977.18	36.267539	-107.6468
10,400.0	90.48	272.03	5,497.2	735.1	-4,509.4	1,916,685.98	554,777.29	36.267559	-107.6475
10,600.0	90.48	272.03	5,495.5	742.2	-4,709.2	1,916,692.65	554,577.41	36.267578	-107.6481
10,800.0	90.48	272.03	5,493.8	749.3	-4,909.1	1,916,699.32	554,377.53	36.267597	-107.6488
11,000.0	90.48	272.03	5,492.1	756.3	-5,109.0	1,916,705.98	554,177.65	36.267617	-107.6495
11,200.0	90.48	272.03	5,490.4	763.4	-5,308.8	1,916,712.65	553,977.77	36.267636	-107.6502
11,400.0	90.48	272.03	5,488.8	770.5	-5,508.7	1,916,719.31	553,777.89	36.267655	-107.6509
11,600.0	90.48	272.03	5,487.1	777.6	-5,708.6	1,916,725.98	553,578.00	36.267675	-107.65158
11,800.0	90.48	272.03	5,485.4	784.7	-5,908.4	1,916,732.64	553,378.12	36.267694	-107.65226
12,000.0	90.48	272.03	5,483.7	791.8	-6,108.3	1,916,739.31	553,178.24	36.267713	-107.6529
12,200.0	90.48	272.03	5,482.0	798.8	-6,308.2	1,916,745.97	552,978.36	36.267733	-107.6536
12,400.0	90.48	272.03	5,480.4	805.9	-6,508.0	1,916,752.64	552,778,48	36.267752	-107.65429
12,600.0	90.48	272.03	5,478.7	813.0	-6,707.9	1,916,759.30	552,578.59	36.267771	-107.6549
12,800.0	90.48	272.03	5,477.0	820.1	-6,907.8	1,916,765.97	552,378.71	36.267791	-107.6556
13,000.0	90.48	272.03	5,475.3	827.2	-7,107.6	1,916,772.63	552,178.83	36,267810	-107.65633
13,200.0	90.48	272.03	5,473.6	834.2	-7,307.5	1,916,779.30	551,978.95	36,267829	-107.6570
13,400.0	90.48	272.03	5,472.0	841.3	-7,507.4	1,916,785.97	551,779.07	36,267849	-107.6576
13,600.0	90.48	272.03	5,470.3	848.4	-7,707.3	1,916,792.63	551,579.19	36.267868	-107.65836
13,753.4	90.48	272.03	5,469.0	853.8	-7,860.5	1,916,797.74	551,425.88	36.267883	-107.65888

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 #133H - plan hits target cen - Point	0.00 ter	0.00	5,469.0	853.8	-7,860.5	1,916,797.74	551,425.88	36.267883	-107.658885
POE #133H - plan hits target cen - Point	0.00 ter	0.00	5,534.0	579.8	-124.7	1,916,539.79	559,162.24	36.267133	-107.632643



Planning Report - Geographic

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Database:

COMPASS-SANJUAN

Company: Project:

SAN JUAN BASIN SJ 36-24N-08W

Site:

Chaco 2408-36O

Well:

Wellbore:

Wellbore #1

Design:

Chaco 2408-36O#133H

Design #1 15Oct14 kjs

Local Co-ordinate Reference:

Survey Calculation Method:

TVD Reference:

MD Reference:

North Reference:

Well Chaco 2408-36O#133H

WELL @ 6907.0usft (Original Well Elev) WELL @ 6907.0usft (Original Well Elev)

True

Minimum Curvature

lan Annotations						
Measure	d	Vertical	Local Coordinates			
Depth (usft)		Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
550	0.0	550.0	0.0	0.0	Start Build 2.00	
1,15	4.5	1,150.0	44.4	45.5	Hold 12.09° Inc, 45.69° Az	
4,34	2.5	4,267.4	510.8	523.3	Start Drop -2.00	
4,94	7.1	4,867.4	555.2	568.8	KOP 9°/100	
5,613	3.7	5,418.7	566.5	250.7	Hold 60° Inc Tangent	
5,673	3.7	5,448.7	568.3	198.8	Begin 9°/100 Build	
6,012	2.4	5,534.0	579.8	-124.7	Landing Pt 90.48° Inc, 272.03° Az	
13,75	3.4	5,469.0	853.8	-7,860.5	TD at 13753.4	

irreparable harm to roads, soils, or streams. No frozen soils will be used for construction purposes or trench backfilling.

Soils will be excavated from the well-connect pipeline corridor trenches using a trencher or backhoe. The trenches will be 4 to 5 feet in depth. The trenches will be 16 inches in width if a trencher is used or 24 inches in width if a backhoe is used. Soft plugs will be placed within the trenches every quarter mile. When stringing pipe, one joint of pipe will be set back every quarter mile. Backfilling operations will be performed within a reasonable amount of time to ensure that the trenches are not left open for more than 24 hours. If a trench is left open overnight, it will be fenced with a temporary fence or a night watchman will be utilized.

After a pipe has been welded and coated, a side-boom tractor will be used to place the pipe into one of the trenches. Prior to construction commencement, WPX will notify the BLM-FFO of additional types of construction equipment to be used.

The soils excavated from the trenches will be returned to the trenches, atop the pipe, and compacted to prevent subsidence. The trenches will be compacted after approximately 2 feet of fill is placed within the trenches and after the ground surface has been leveled.

Prior to the well-connect pipelines being placed in service, the pipes will be pressure tested.

Pipeline markers will be installed along the well-connect pipeline corridor within the line of sight. These markers will not create safety hazards.

Construction plats are provided in the APDs.

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 A.3 and A.4 [Appendix A] for the location of toilets and trash receptacles).

10. ANCILLARY FACILITIES

Three staging areas will be used; they are described in Section 2.2 (Project Description). During staging, WPX will stay within the boundaries of the previously disturbed areas associated with the staging areas. During post-construction reclamation, WPX will repair any damage to and reseed the staging areas (with the exception of areas that the operators associated with the original disturbance prefer 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 APDs. Rig orientation and the location of drilling equipment and topsoil or spoil material stockpiles are depicted on Figure A.3 (Appendix A). The layout of the completions rigs is depicted on

Directions from the Intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM to WPX Energy Production, LLC Chaco 2408-360 #133H 736' FSL & 2531' FEL, Section 36, T24N, R8W, N.M.P.M., San Juan County, NM

Latitude: 36.26555°N Longitude: 107.63282°W Datum: NAD1983

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

Go Left (Northerly) on County Road #7998 for 0.2 miles to fork in roadway:

Go Right (Easterly) exiting County Road #7998 for 300' to new access on left-hand side of existing roadway which continues for 235' to staked WPX Chaco 2408-36O #133H location.

