

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

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

David R. Catanach Division Director
Oil Conservation Division



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

Operator Signature Date: 6-3-15

Well information;

Operator WSPX, Well Name and Number NZ Chaco COM #900H

API# 30-043-21275 Section 20, Township 23N, Range 6E

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.

Chal Herr
NMOCD Approved by Signature

6-16-2015
Date KC

JUN 16 2015

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 03 2015

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

APPLICATION FOR PERMIT TO DRILL OR REENTER Farmington Field Office
Bureau of Land Management

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No: NMSF-078360
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name NE Chaco COM #900H
2. Name of Operator WPX Energy Production, LLC		7. If Unit or CA Agreement, Name and No. NE CHACO CA NMNM132829
3a. Address P.O. Box 640 Aztec, NM 87410	3b. Phone No. (include area code) (505) 333-1822	8. Lease Name and Well No. NE Chaco COM #900H
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 472' FSL & 170' FWL, sec 20, T23N, R6W At proposed prod. zone 68' FNL & 682' FWL, sec 24, T23N, R7W		9. API Well No. 30-04321275
14. Distance in miles and direction from nearest town or post office* Approximately 50 miles Southeast from Bloomfield NM		10. Field and Pool, or Exploratory Chaco Unit NE HZ (Oil)
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 170'	16. No. of Acres in lease 2565.24 8,237.3	11. Sec., T., R., M., or Blk. and Survey or Area SHL: Section 20, T23N, R6W BHL: Section 24, T23N, R7W
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 20'	19. Proposed Depth 16,238 MD / 5,328 TVD	12. County or Parish Sandoval
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 7037' GR	22. Approximate date work will start* July 15, 2015	13. State NM
23. Estimated duration 1 month		

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached 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 Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature 	Name (Printed/Typed) Heather Riley	Date 06/03/2015
Title Regulatory Manager		
Approved by (Signature) 	Name (Printed/Typed) AFM	Date 6/16/15
Title	Office FFO	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

WPX Energy Production, LLC, proposes to develop the Chaco Unit NE 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 BLM. The road and location are off lease. This well will twin the existing NE Chaco COM #208H.

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

Access will be along existing ROW NMNM-131121 so no new access road is needed.

The well will use existing pipelines so no new pipeline is needed.

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

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

NMOCDV

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

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

AMENDED REPORT

OIL CONS. DIV DIST. 3

JUN 16 2015

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-043-21275		² Pool Code 98088	³ Pool Name CHACO UNIT NE HZ (OIL)
⁴ Property Code 313800	⁵ Property Name NE CHACO COM		⁶ Well Number 900H
⁷ GRID No. 120782	⁸ Operator Name WPX ENERGY PRODUCTION, LLC		⁹ Elevation 7037'

¹⁰ Surface Location

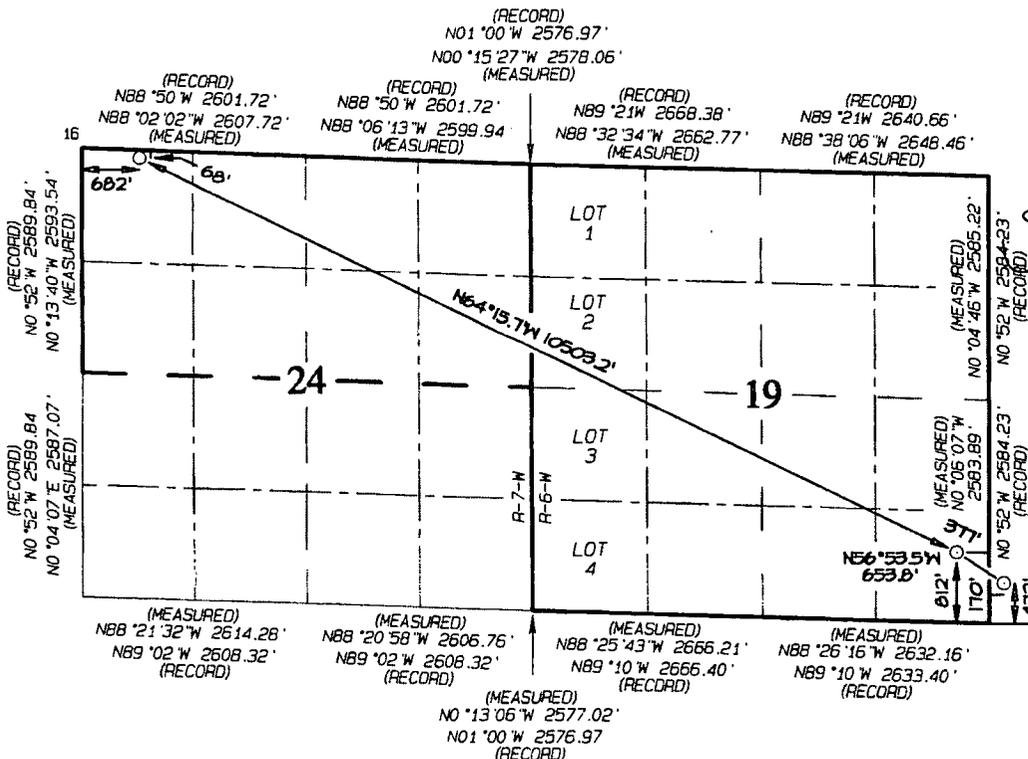
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	20	23N	6W		472	SOUTH	170	WEST	SANDOVAL

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	24	23N	7W		68	NORTH	682	WEST	SANDOVAL

¹² Dedicated Acres 963.68	Entire Section 19, T23N, R6W N/2 Section 24, T23N, R7W	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-13817A / 9.237.3 acres
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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 certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Andrea Felix* Date: 6-16-15
Printed Name: Andrea Felix
E-mail Address: wpenergy.com

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: JUNE 1, 2015
Date of Survey: MAY 15, 2015
Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

END-OF-LATERAL
68' FNL 682' FWL
SECTION 24, T23N, R7W
LAT: 36.218258°N
LONG: 107.533202°W
DATUM: NAD1927

LAT: 36.218272°N
LONG: 107.533808°W
DATUM: NAD1983

POINT-OF-ENTRY
812' FSL 377' FEL
SECTION 19, T23N, R6W
LAT: 36.206070°N
LONG: 107.500936°W
DATUM: NAD1927

LAT: 36.206084°N
LONG: 107.501541°W
DATUM: NAD1983

SURFACE LOCATION
472' FSL 170' FWL
SECTION 20, T23N, R6W
LAT: 36.205109°N
LONG: 107.499065°W
DATUM: NAD1927

LAT: 36.205123°N
LONG: 107.499670°W
DATUM: NAD1983

III. MATERIALS**A. CASING PROGRAM:**

CASING TYPE	OH SIZE (IN)	DEPTH (MD) (FT)	CASING SIZE (IN)	WEIGHT(LB)	GRADE
Surface	12.25"	320'	9.625"	36#	J-55
Intermediate	8.75"	5737'	7"	23#	K-55
Prod. Liner	6.125"	5587' - 16238'	4-1/2"	11.6#	N-80
Tie-Back String	N/A	Surf. - 5587'	4-1/2"	11.6#	N-80

B. FLOAT EQUIPMENT:

- SURFACE CASING:** 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.
- INTERMEDIATE CASING:** 7" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install (1) centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) centralizer at 2,700 ft., 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft.
- PRODUCTION LINER:** 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.
- TIE-BACK CASING:** None

C. CEMENTING:

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

- SURFACE:** 5 bbl Fresh Water Spacer, 100 sx (160 cu.ft.) of 14.5 ppg Type I-II (Neat G) + 20% Fly Ash cement w/ 7.41 gal/sack mix water ratio @ 1.61 cu ft/sx yield. Calculated @ volume + 50% excess. WOC 12 hours. Test csg to 600psi. Total Volume: (160 cu-ft/100 sx/ Bbls). TOC at Surface.
- INTERMEDIATE:** 20 bbl (112 cu-ft) Mud Flush III spacer + Lead: +/- 700 sx Foamed 50/50 Poz Cement. 13.0 ppg + 0.1% Halad 766 + 0.2% Versaset + 1.5% Chem-Foamer 760 (Yield :1.43 cu-ft/ sk. / Vol: 1001 cu-ft / 178.3 Bbls.) + TAIL: 100 sx 13.5 #/gal. + 0.2% Versaset + 0.15% HALAD-766 (Yield: 1.28 cu-ft / sk / Vol: 128 cu-ft / 22.8 Bbls.). + Fresh Water Displacement (1,362 cu-ft / +/- 242 Bbls) + 100 sx Top-Out Cement Premium: Yield: (1.17 cu-ft / sk / (Vol: 117 cu-ft / 20.8 Bbls). WOC 12 hrs. Test Casing to 1500 PSI for 30 minutes. Total Cement Volume: (900 sx / 1246 cu-ft / 222 bbls). Mix with +/- 84,000 SCF Nitrogen. TOC at surface.
- PRODUCTION LINER:** **Spacer #1:** 10 bbl (56 cu-ft) Water Spacer. **Spacer #2:** 40 bbl 9.5 ppg (224.6 cu-ft) Tuned Spacer III. **Spacer #3:** 10 bbl Water Spacer. **Lead Cement:** Extencem™ System. Yield 1.36 cu ft/sk, 13.5 ppg, (846 sx / 1152 cu ft. / 205 bbls). **Tail Spacer:** 20 BBL of MMCR. **Displacement:** Displace w/ +/- 238 bbl Fr Water. Total Cement (1152 cu ft / 205 bbls).

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. Production Tubing: Run 2-7/8", 6.5#, J-55, EUE tubing with a SN on top of bottom joint. Land tubing near Top of Liner.

- Although this horizontal well will be drilled past the applicable setbacks, an unorthodox location application is not required because the completed interval in this well, as defined by 19.15.16.7 B(1) NMAC, will be entirely within the applicable setbacks. This approach complies with all applicable rules, including 19.15.16.14 A(3) NMAC, 19.15.16.14 B(2) NMAC, 19.15.16.15 B(2)NMAC, and 19.15.16.15. B(4) NMAC.

NOTE:

Installation of RSI sleeves at Toe of Lateral.

Proposed Operations:

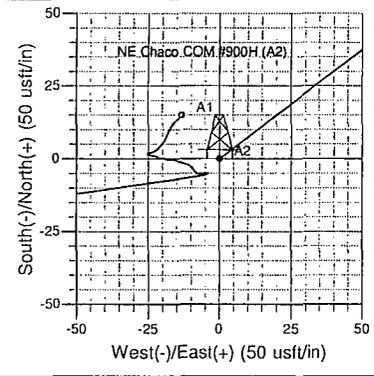
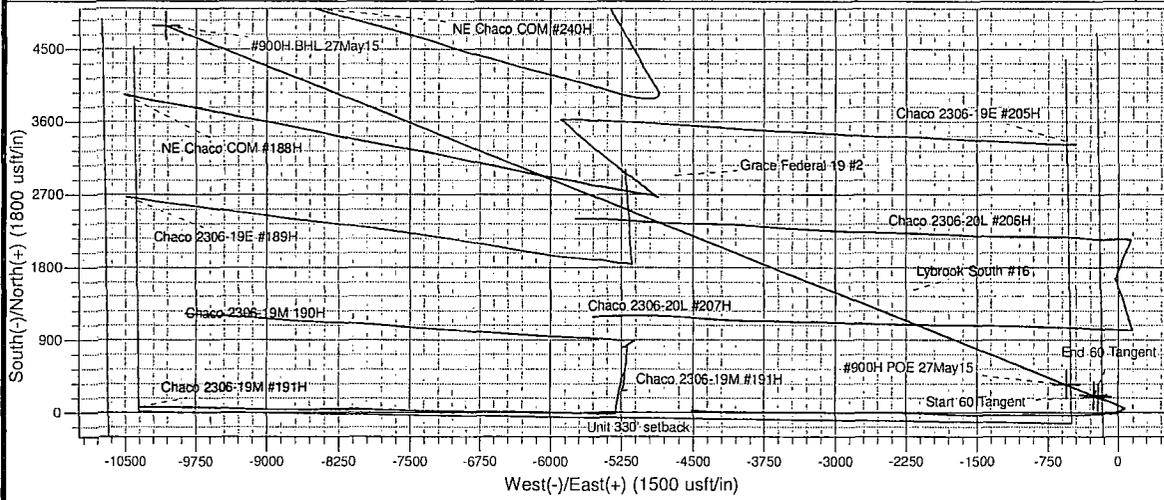
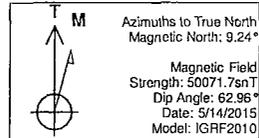
A 4-1/2" 11.6# N-80 Liner will be run to TD and landed +/- 150 ft. into the 7" 23# K-55 Intermediate casing with a Liner Hanger and pack-off assembly then cemented to top of liner hanger.

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

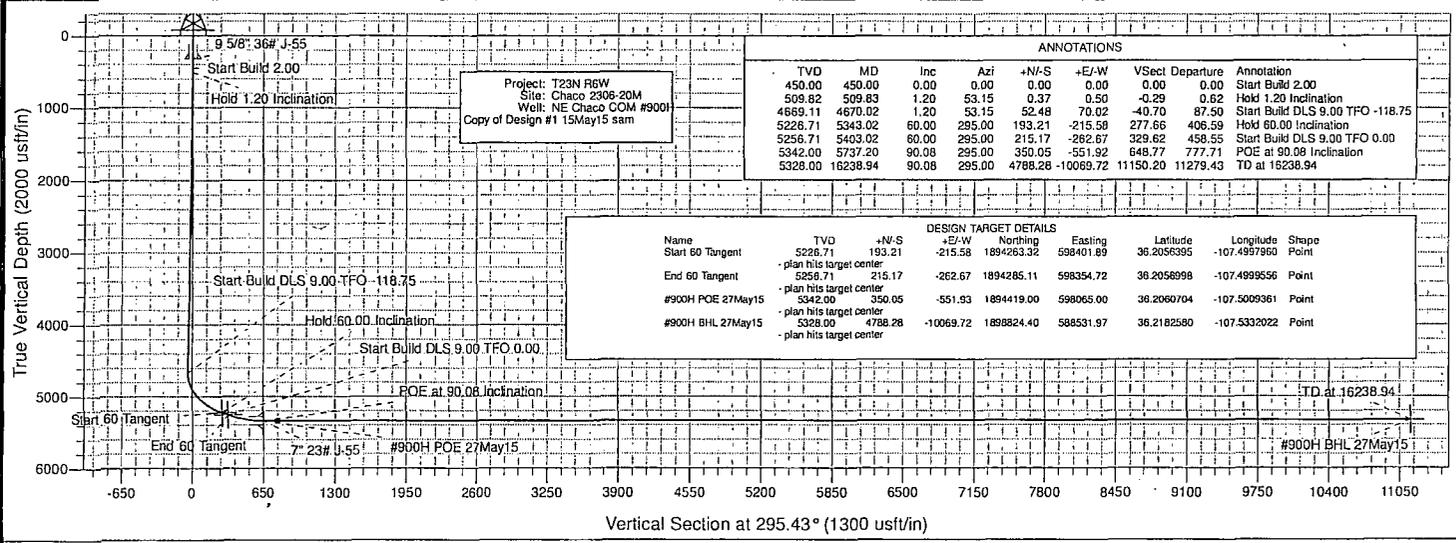
A 4-1/2" 11.6# N-80 tie-back string with seal assembly will be run and stung into the PBR of the liner hanger, tested to 1500 PSI and hung off at the surface. After Stimulation and Testing operations are complete the 4-1/2" tie-back string will be removed from the well.



Well Name: NE Chaco COM #900H
 Surface Location: Chaco 2306-20M
 NAD 1927 (NADCON CONUS), US State Plane 1927 (Exact solution) New Mexico West 3003
 Ground Elevation: 7037.00
 +N/-S 0.00 +E/-W 0.00 Northing 1894070.85 Easting 598618.13 Latitude 36.2051087 Longitude -107.4990653 Slot A2
 KB @ 7051.00usft



SLOTS				
Slot Name	+N/-S	+E/-W	Northing	Easting
A1	15.00	-13.18	1894055.80	598604.93
A2	0.00	0.00	1894070.85	598618.13



WPX Energy

T23N R6W

Chaco 2306-20M

NE Chaco COM #900H - Slot A2

Wellbore #1

Plan: Design #27May15 sam

Standard Planning Report

28 May, 2015

WPX
Planning Report

Database:	COMPASS-SANJUAN	Local Co-ordinate Reference:	Well NE Chaco COM #900H (A2) - Slot A2
Company:	WPX Energy	TVD Reference:	KB @ 7051.00usft
Project:	T23N R6W	MD Reference:	KB @ 7051.00usft
Site:	Chaco 2306-20M	North Reference:	True
Well:	NE Chaco COM #900H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #27May15 sam		

Project	T23N R6W		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		

Site	Chaco 2306-20M				
Site Position:		Northing:	1,894,085.80 usft	Latitude:	36.2051499
From:	Map	Easting:	598,604.90 usft	Longitude:	-107.4991100
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	0.20 °

Well	NE Chaco COM #900H - Slot A2					
Well Position	+N/-S	-15.00 usft	Northing:	1,894,070.85 usft	Latitude:	36.2051087
	+E/-W	13.18 usft	Easting:	598,618.13 usft	Longitude:	-107.4990653
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	7,037.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/14/2015	9.24	62.96	50,072

Design	Design #27May15 sam			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	295.43

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
450.00	0.00	0.00	450.00	0.00	0.00	0.00	0.00	0.00	0.00	
509.83	1.20	53.15	509.82	0.37	0.50	2.00	2.00	0.00	53.15	
4,670.02	1.20	53.15	4,669.11	52.48	70.02	0.00	0.00	0.00	0.00	
5,343.02	60.00	295.00	5,226.71	193.21	-215.58	9.00	8.74	-17.56	-118.75	Start 60 Tangent
5,403.02	60.00	295.00	5,256.71	215.17	-262.67	0.00	0.00	0.00	0.00	End 60 Tangent
5,570.47	75.07	295.00	5,320.51	280.38	-402.51	9.00	9.00	0.00	0.00	
5,737.20	90.08	295.00	5,342.00	350.05	-551.93	9.00	9.00	0.00	0.00	#900H POE 27May15
16,238.94	90.08	295.00	5,328.00	4,788.28	-10,069.72	0.00	0.00	0.00	0.00	#900H BHL 27May15

WPX
Planning Report

Database:	COMPASS-SANJUAN	Local Co-ordinate Reference:	Well NE Chaco COM #900H (A2) - Slot A2
Company:	WPX Energy	TVD Reference:	KB @ 7051.00usft
Project:	T23N R6W	MD Reference:	KB @ 7051.00usft
Site:	Chaco 2306-20M	North Reference:	True
Well:	NE Chaco COM #900H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #27May15 sam		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
320.00	0.00	0.00	320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8" 36# J-55										
450.00	0.00	0.00	450.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00										
500.00	1.00	53.15	500.00	0.26	0.35	-0.20	2.00	2.00	0.00	0.00
509.83	1.20	53.15	509.82	0.37	0.50	-0.29	2.00	2.00	0.00	0.00
Hold 1.20 Inclination										
1,000.00	1.20	53.15	999.89	6.51	8.69	-5.05	0.00	0.00	0.00	0.00
1,500.00	1.20	53.15	1,499.78	12.78	17.05	-9.91	0.00	0.00	0.00	0.00
2,000.00	1.20	53.15	1,999.67	19.04	25.40	-14.76	0.00	0.00	0.00	0.00
2,500.00	1.20	53.15	2,499.56	25.30	33.76	-19.62	0.00	0.00	0.00	0.00
3,000.00	1.20	53.15	2,999.45	31.56	42.11	-24.48	0.00	0.00	0.00	0.00
3,500.00	1.20	53.15	3,499.34	37.82	50.47	-29.33	0.00	0.00	0.00	0.00
4,000.00	1.20	53.15	3,999.23	44.09	58.82	-34.19	0.00	0.00	0.00	0.00
4,500.00	1.20	53.15	4,499.13	50.35	67.18	-39.04	0.00	0.00	0.00	0.00
4,670.02	1.20	53.15	4,669.11	52.48	70.02	-40.70	0.00	0.00	0.00	0.00
Start Build DLS 9.00 TFO -118.75										
5,000.00	29.14	296.28	4,985.28	90.98	-0.86	39.84	9.00	8.47	-35.42	0.00
5,343.02	60.00	295.00	5,226.71	193.21	-215.58	277.66	9.00	9.00	-0.37	0.00
Hold 60.00 Inclination										
5,403.02	60.00	295.00	5,256.71	215.17	-262.67	329.62	0.00	0.00	0.00	0.00
Start Build DLS 9.00 TFO 0.00										
5,500.00	68.73	295.00	5,298.63	252.09	-341.84	416.97	9.00	9.00	0.00	0.00
5,570.47	75.07	295.00	5,320.51	280.38	-402.51	483.91	9.00	9.00	0.00	0.00
5,737.00	90.06	295.00	5,342.00	349.97	-551.74	648.57	9.00	9.00	0.00	0.00
7" 23# J-55										
5,737.20	90.08	295.00	5,342.00	350.05	-551.92	648.77	9.00	9.00	0.00	0.00
POE at 90.08 Inclination										
6,000.00	90.08	295.00	5,341.65	461.12	-790.10	911.56	0.00	0.00	0.00	0.00
6,500.00	90.08	295.00	5,340.98	672.43	-1,243.25	1,411.54	0.00	0.00	0.00	0.00
7,000.00	90.08	295.00	5,340.32	883.74	-1,696.41	1,911.53	0.00	0.00	0.00	0.00
7,500.00	90.08	295.00	5,339.65	1,095.04	-2,149.56	2,411.51	0.00	0.00	0.00	0.00
8,000.00	90.08	295.00	5,338.98	1,306.35	-2,602.71	2,911.50	0.00	0.00	0.00	0.00
8,500.00	90.08	295.00	5,338.32	1,517.66	-3,055.87	3,411.49	0.00	0.00	0.00	0.00
9,000.00	90.08	295.00	5,337.65	1,728.97	-3,509.02	3,911.47	0.00	0.00	0.00	0.00
9,500.00	90.08	295.00	5,336.98	1,940.28	-3,962.17	4,411.46	0.00	0.00	0.00	0.00
10,000.00	90.08	295.00	5,336.32	2,151.59	-4,415.33	4,911.44	0.00	0.00	0.00	0.00
10,500.00	90.08	295.00	5,335.65	2,362.90	-4,868.48	5,411.43	0.00	0.00	0.00	0.00
11,000.00	90.08	295.00	5,334.98	2,574.21	-5,321.63	5,911.41	0.00	0.00	0.00	0.00
11,500.00	90.08	295.00	5,334.32	2,785.52	-5,774.79	6,411.40	0.00	0.00	0.00	0.00
12,000.00	90.08	295.00	5,333.65	2,996.83	-6,227.94	6,911.38	0.00	0.00	0.00	0.00
12,500.00	90.08	295.00	5,332.98	3,208.14	-6,681.09	7,411.37	0.00	0.00	0.00	0.00
13,000.00	90.08	295.00	5,332.32	3,419.45	-7,134.25	7,911.35	0.00	0.00	0.00	0.00
13,500.00	90.08	295.00	5,331.65	3,630.76	-7,587.40	8,411.34	0.00	0.00	0.00	0.00
14,000.00	90.08	295.00	5,330.98	3,842.07	-8,040.56	8,911.32	0.00	0.00	0.00	0.00
14,500.00	90.08	295.00	5,330.32	4,053.38	-8,493.71	9,411.31	0.00	0.00	0.00	0.00
15,000.00	90.08	295.00	5,329.65	4,264.68	-8,946.86	9,911.30	0.00	0.00	0.00	0.00
15,500.00	90.08	295.00	5,328.99	4,475.99	-9,400.02	10,411.28	0.00	0.00	0.00	0.00
16,000.00	90.08	295.00	5,328.32	4,687.30	-9,853.17	10,911.27	0.00	0.00	0.00	0.00
16,238.94	90.08	295.00	5,328.00	4,788.28	-10,069.72	11,150.20	0.00	0.00	0.00	0.00
TD at 16238.94										

WPX
Planning Report

Database:	COMPASS-SANJUAN	Local Co-ordinate Reference:	Well NE Chaco COM #900H (A2) - Slot A2
Company:	WPX Energy	TVD Reference:	KB @ 7051.00usft
Project:	T23N R6W	MD Reference:	KB @ 7051.00usft
Site:	Chaco 2306-20M	North Reference:	True
Well:	NE Chaco COM #900H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #27May15 sam		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
Start 60 Tangent - plan hits target center - Point	0.00	0.00	5,226.71	193.21	-215.58	1,894,263.32	598,401.89	36.2056395	-107.4997961
End 60 Tangent - plan hits target center - Point	0.00	0.00	5,256.71	215.17	-262.67	1,894,285.12	598,354.72	36.2056998	-107.4999557
#900H BHL 27May15 - plan hits target center - Point	0.00	0.00	5,328.00	4,788.28	-10,069.72	1,898,824.40	588,531.97	36.2182579	-107.5332023
#900H POE 27May15 - plan hits target center - Point	0.00	0.00	5,342.00	350.05	-551.93	1,894,419.00	598,065.00	36.2060703	-107.5009361

Casing Points					
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
(usft)	(usft)		(in)	(in)	
320.00	320.00	9 5/8" 36# J-55	9.62	12.25	
5,737.00	5,342.00	7" 23# J-55	7.00	8.75	

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
450.00	450.00	0.00	0.00	Start Build 2.00
509.83	509.82	0.37	0.50	Hold 1.20 Inclination
4,670.02	4,669.11	52.48	70.02	Start Build DLS 9.00 TFO -118.75
5,343.02	5,226.71	193.21	-215.58	Hold 60.00 Inclination
5,403.02	5,256.71	215.17	-262.67	Start Build DLS 9.00 TFO 0.00
5,737.20	5,342.00	350.05	-551.92	POE at 90.08 Inclination
16,238.94	5,328.00	4,788.28	-10,069.72	TD at 16238.94

depth. This information is recorded on the supplied groundwater depth log form. The bore will be completed to a desired vertical bore depth of approximately 300 feet. Given a 240 foot anode length and varying lengths of surface casing, the overall bore shall be allowed to vary by no more than ± 60 feet from the standard 300 feet. Once the bore is completed and cased, the anode is installed in accordance with the manufacturer's specifications. The bore is then backfilled with Conducrete using a tremie tube technique starting from TD of the bore. The casing will be cut and capped 12 inches below the surface. The specified flush grade valve box is then installed directly over the bed. The bed location (Lat/Long) is recorded and full drill log report is completed and filed with WPX. The bed will not be energized for a minimum of 45 days.

7.0 Methods for Handling Waste

- A. Cuttings
 - 1. Drilling operations will utilize a closed-loop system. Drilling of the horizontal lateral 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. All garbage and trash will be placed in a metal trash basket. The trash and garbage will be hauled off site and dumped in an approved landfill, as needed.
- F. Hazardous Waste
 - 1. No chemicals subject to reporting under Superfund Amendments and Reauthorization Act Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of these wells.
 - 2. No extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of these wells.
 - 3. All fluids (i.e., scrubber cleaners) used during washing of production equipment will be properly disposed of to avoid ground contamination or hazard to livestock or wildlife.
- G. Produced Water:

Directions from the Intersection of US Hwy 550 & US Hwy 64
in Bloomfield, NM to WPX Energy Production, LLC NE Chaco COM #900H
472' FSL & 170' FWL, Section 20, T23N, R6W, N.M.P.M., Sandoval County, NM

Latitude: 36.205123°N Longitude: 107.499670°W Datum: NAD1983

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Southerly on US Hwy 550 for 50.4 miles to Mile Marker 100.9;

Go Right (Southerly) for 0.4 miles to fork in roadway;

Go Left (Southerly) which is straight for 0.3 miles to fork in roadway;

Go Left (South-easterly) for 1.2 miles to fork in roadway;

Go Right (South-westerly) for 235' to staked WPX NE Chaco COM #900H which overlaps existing WPX NE Chaco COM #208H location.

**3000 PSI BOP
Schematic**

